



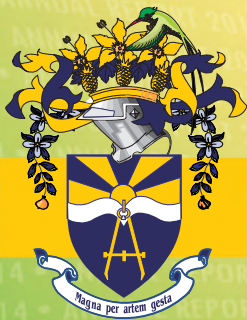
University of Technology, Jamaica



Advancing

Excellence Through Knowledge

ANNUAL REPORT 2013-2014



Advancing

Excellence Through Knowledge

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ur Vision

In 2015, The University of Technology, Jamaica will:

- **Provide innovative and expanded access to learning**
- **Offer innovative, transformational, profession-driven and leading-edge programmes**
- **Have in place high-quality staff who are professionally competent, innovative and leaders in their own field**
- **Operate with high quality, relevant resources and facilities**

Resulting in:

- **Recognition for its leadership in entrepreneurship, research, technology innovation and exceptional customer care**
- **The well-known and respected UTech brand**
- **Globally competent, versatile, innovative and entrepreneurial graduates**
- **A positive impact on society**





ur Mission

The Mission of the University of Technology, Jamaica is:

**To stimulate positive change in Caribbean society
through the provision of high-quality learning and
research opportunities and service to our communities**

Advancing

Excellence Through Knowledge



University Officers



The Most Hon. Edward Seaga, ON, PC
Chancellor



Mr. Vivian Crawford, O.D.
Pro-Chancellor



Prof. the Hon. Errol Morrison, OJ
President



Mr. Dennis Chung
Honorary Treasurer



Prof. Ashok Kulkarni
Deputy President



Dr. Elaine Wallace
University Registrar



Mr. David Drysdale
University Librarian



Mrs. Pamella Kelly
University Orator



Mrs. Jennifer Ellis
Vice President, Human
Resource & Administration



Prof. Rosalea Hamilton
Vice President, Development
& Community Service



Associate Prof. Kofi
Nkrumah-Young
Vice President, Planning &
Operations



Prof. Gossett Oliver, O.D.
Vice President Graduate Studies,
Research & Entrepreneurship



Mr. Deryke Smith
Chief Business &
Finance Officer
(Resigned Sept. 2013)



Message from



THE MINISTER OF EDUCATION

The Hon. Rev. Ronald Thwaites, MP, JP

The 2013-2014 Annual Report of the University of Technology, Jamaica (UTech) provides a solid overview of its continuing commitment to teaching, research and service. In so doing, it has helped Jamaica establish itself as a regional academic leader that provides young people with a broad range of choices of study programmes.

UTech has to remain relevant in an age of increased competition and rising costs to provide higher studies. It has approached this not as a challenge, but as an opportunity to develop collaborative arrangements with other institutions, to expand its campus to attract students in western Jamaica and to develop much needed training and research projects with the private sector, among other initiatives.

The institution has pursued a vigorous self-improvement campaign, encouraging its faculty to update and upgrade its skills, giving credence to the university's stated belief that knowledge aids excellence. In addition, UTech has consolidated its reputation as a powerhouse for sporting excellence, while expanding successfully into related academic disciplines that not only support the maintenance of this sporting success, but opens up an entire economic avenue for Jamaica.

The University of Technology, Jamaica is a positive, forward-looking brand for Jamaica and indeed the Caribbean. It must continue to strive for excellence in all areas, thereby assisting the nation in our own quest for economic sustainability in a complex, interconnected global marketplace.



Message from



THE CHANCELLOR

The Most Hon. Edward Seaga, ON, PC

The past year has been somewhat turbulent for the University of Technology, Jamaica. The Institution has had to pause in carrying out its reform mission to refocus its direction. This call made to the University Council included sweeping changes which reflected a mood that the direction should be a restructuring of leadership and a new focus on the facilities offered by UTech. The outline of the new direction will no doubt take shape in the fullness of time.

We live in a time of transformation in which we must expect radical changes in many areas, of which education will be foremost. There have already been some far-reaching changes in delivery of education material to students by electronic transmission in which there is no physical attachment to a college. In such cases, colleges prepare their own material and give their own degree to students they may never see. This e-learning programme is one of the new far-reaching developments which have been adopted by UTech. Others will come as we open

other non-traditional doors of learning to reach more and more students, inclusive of those who can't afford the traditional route. This, after all, is an important part of the mission of UTech to educate students of all backgrounds.

I am certain that as soon as the economy throws off its economic shackles, education will become an even more profound agent of change to the lives of many thousands of young people through institutions of learning like the University of Technology, Jamaica.



President's Overview



LOOKING BACK AT THE LAST SEVEN YEARS...

Advancing Excellence through Knowledge

One of the comments that I have had to respond to frequently, is that I am always on the move, constantly getting something done and always thinking of something else to be done. I accept that for what it

is, both criticism and compliment. Nevertheless, I think I could have done more, more quickly. The point is there is so much to be done. Enrolment has increased from between 7,000 and 8,000 students to close to 14,000 students, and still there are so many more out there who need this kind of educational opportunity. We have added 56 new courses at diploma, undergraduate, graduate and post-graduate levels. We have managed to achieve a lot and I am grateful for the opportunity of helping to put UTech on its current upward trajectory.

The triad that constitutes a university is teaching, research and service. Research in any significant way was what was absent. We have pulled together a proper School for Graduate Studies, Research and Entrepreneurship that in the short space of time has made its name as the leading researching consortium for the Caribbean region and we are now managing some €3m in collaboration with 35 universities in 14 countries. It was the promise of leading a research thrust that brought me here but of course, a lot depends on the supporting faculty, and I must emphasise that much of the research that we are now doing has come from a joint effort of the faculty who were here already and some of the new faculty who have brought a research culture with them. This is really one of the flagship areas of the university now. We have made a major jump and brought UTech onto the radar of international institutions.

Naturally, some things take more time than others. When I came to UTech we had about 8-9% of our faculty with terminal degrees, and to teach in a university you should really have the equivalent of a terminal degree - a PhD, or Doctorate of whatever form. Now at the end of 2013-2014, we have about 21% of our faculty at the terminal degree level or its equivalent. My position has been that for a University to hold any kind of international respectability, it should have at least 75% of its teaching staff holding terminal degrees. It is obvious that the only way to get there is to keep working at it.

One of the lessons I have learnt is that the President alone cannot drive the academics. What I've tried to get across, is entrepreneurship - meaning doing new things, and innovating, probably doing old things in a new way. We have now a school of Entrepreneurship, Ethics and Leadership - the Joan Duncan School of Entrepreneurship, Ethics and Leadership for which we got an endowment of US\$1m. We are trying to do foundation courses, where everyone is exposed to entrepreneurship. We have seen the results of incorporating the entrepreneurial spirit into our research activities, which has been a springboard to its current prominence. Now the challenge is to infuse entrepreneurship into running the institution. The University is a business enterprise as well as a social enterprise.

Hence we have additions like Law, which raised a lot of commentary. The establishment of the Faculty of Law faced a lot of challenges. We did our due diligence which provided the evidence that offering law was a viable business opportunity with a potential market of students who want to do Law. The legal fraternity may say we are producing too many lawyers, but the students want to do it. Law is like a lingua franca of tertiary education. When you do law, you have to do economics, banking, finance, all kinds of basic courses from which you can branch, so it is a good start-up degree. We thought it would be good to be able to create a faculty that would have a Caribbean ethos, not just teaching English Law, but teaching what you would call Caribbean Jurisprudence, in addition, of course, to the routine core areas of law. We overcame the challenges; we got it done; our graduates are doing exceptionally well; and it is one



PRESIDENT'S OVERVIEW CONT'D

of the university's profit centres. We now have over 800 applicants each year for 150 places.

The College of Oral Health Sciences is another success story; and another business opportunity. In this case, the current Dean, Dr Irving McKenzie took it and ran with it, delivering teaching, research and service to the highest level, with extraordinary voluntary support from a network of international experts.

When I speak of STEM & I (meaning Science, Technology, Mathematics and Innovation) as the "driver for development" I really want to emphasise that STEM is needed as a mechanism for the reform, transformation, growth, development and prosperity in any country and is the correct path for UTech's continued development.

One UTech scenario, using STEM, is a case in point. For the University, financing is a major problem, and expanding to the west was part of the strategy to close the income gap. To increase income one has to look at one's assets, and at the market. So what are our major assets? Our fantastic sporting success for one. At the 2008 Olympics, 50% of those medals were UTECH, which was a clear indication that something special was happening at UTech. How could UTech capitalise on this? You couldn't just create a faculty of sports because that is so alien to our cultural understanding of education here; people don't believe sports and education go hand in hand.

So I took the approach of underpinning our sports performance with good scientific understanding and study, and hence the Faculty of Science and Sport came together. We split open the existing Faculty of Health and Applied Sciences and expanded it, and out of that has come the College of Health Sciences and the Faculty of Science and Sport. But now we needed to attract more business. So the western expansion was part of our financial strategy. The town of Falmouth, with the stadium as a base, was ideal. Regrettably, however, that initiative did not pan out, but in all other respects our western expansion has been a success. The UTech Academy which operates all over the island from our western base has established our island-wide presence. The Academy has an important role in taking STEM to the people. We must interpret and make science and technology meaningful for everyone in the country. In addition to our prowess at sports, our music, our food, our indigenous plants, and other facets of brand Jamaica should be harnessed, studied and codified for the country's transformation.

When you look at the programmes we are offering, some 75% of them are in the areas of science, technology, engineering, mathematics and innovation, which is the core of UTech. For example, in the Faculty of the Built Environment, Architecture and Land Management are all engineering related; Faculty of Science and Sports, all Science-based, because our sport programmes are in the art and science of coaching, bio-mechanics and all that. The College of Health Sciences with the Medical Technology, Dietetics, Pharmacy, Nursing – all of that, the Joint Colleges of Oral Health – that's Dentistry and Public Health, again all of that is medical science; when you look at the Faculty of Engineering and Computing all of that is science and technology. When you look at the Faculty of Education and Liberal Studies, there is a whole school of Technical and Vocational Education. When you come to the Graduate School, all of what they are doing is Innovation. So although 40% of our students are in business and accounts and hospitality and tourism, 75% of our programmes are STEM related.

To place STEM in further context, development demands trained manpower. Currently, the major national debate is about the logistics hub as Jamaica's hope for development. When you say logistics hub it's not just carpenters, welders and plumbers you need, where a welder is not a little man with a torch who can go and tack up two little pieces of metal. He should be able to read a plan, help to design, understand the architectural dynamics, some structural engineering This is the level that we have to be taking it to; otherwise these are the people who will be coming in from elsewhere to do those jobs. UTech should be the premiere institution for training at the higher level, for its own continued success and the benefit of the nation. That is the future.

Prof. the Hon. Errol Morrison, OJ



Academic Affairs Division

The Academic Affairs Division, under the direction of the Deputy President provides overall direction of academic support services for development and implementation of standards, policies, procedures and regulations to govern the delivery of the University's academic programmes at both the undergraduate and post-graduate levels.

During the review period, significant developments included:-

- Diversification and expansion of undergraduate courses of study in new disciplines
- Launch of the School of Humanities and Social Sciences in the Faculty of Education and Liberal Studies
- Establishment of the Brian Silvera Refrigeration and Air Conditioning Laboratory in the School of Engineering
- 2013/14 Academic Staff Promotion resulting in the appointment of two professors in Applied Science and Technical & Vocational Education respectively, four associate professors, and seventeen senior lecturers.

OFFICE OF CURRICULUM DEVELOPMENT & EVALUATION (OCDE)



Dr. Winsome Russell
Associate Vice President

The main areas of activity which fall under the purview of the OCDE are: Curriculum Development, Cooperative Education, Accreditation, Academic Quality Audits, Professional Development for Instructors and Prior Learning Assessment.

Curriculum Development

The undergraduate curriculum is influenced by a

number of internal and external factors which have warranted ongoing reviews of existing courses of study, and the development of new ones. In an effort to ensure academic balance and societal relevance of the curriculum, a number of existing courses of study were redesigned during the period under review.

In response to specific work place needs, the following new courses of study were developed:

- Bachelor of Science in Critical Care Nursing
- Dialysis Technician Certificate (Part -Time)
- Bachelor of Science in Pharmaceutical Technology

Co-operative Education

Cooperative Education is a structured approach to integrating classroom learning with on-the-job work experiences related to students' courses of study and career goals. UTech's Co-operative Education programme provides students with practical and professional exposure in real work settings, through internships, externships, professional experience, practicum and other forms of work-integrated learning activities.

Feedback received from industry partners confirmed that the programme is still very relevant and mutually beneficial. During the academic year 2012/2013, over 600 registered students were engaged in the Co-op Ed Programme, and three courses of study formally introduced a Co-op Ed module. The Co-op Ed Unit is now focused on developing a national agenda which involves collaborating with other tertiary institutions to standardise and streamline the Programme locally and regionally.

Academic Quality Audits

The introduction of the Academic Quality Audits in 2012 has proven beneficial to the University by raising the level of consciousness of the staff and students to quality assurance and enhancement issues. The audits are carried out by trained auditors from the University staff. Some 21 auditors were trained during the period.

Professional Development

The OCDE continued to offer workshops, for instructors, aimed at improving the quality of teaching and learning.

Prior Learning Assessment

Prior Learning Assessment (PLA) is a system developed to assess 'mature students' with a view to awarding



Academic Affairs Division *cont'd*

academic credit for experiential learning. Applicants use this process to gain matriculation or advanced standing. Over the period, a total of 113 applications were received and 91 applicants were awarded spaces.



Students engaged in the Co-operative Education Programme

THE CALVIN MCKAIN LIBRARY



Mr. David Drysdale
University Librarian

The Calvin McKain Library supports the teaching, learning, and research needs of the university. Highlights of the year were:

- Significant growth in the acquisition of e-books
- Further progress being made towards the introduction of an e-textbook project for students
- Modifications to the open area above the Client Services area to create a Library Commons area on the second floor

Reference Services

At the end of the year, work was in progress to have the Virtual Reference Service, Question Point, fully up and running by May 2014. This virtual reference service will enable clients to communicate and connect with librarians in real time through the Internet, by e-mail, chat or instant messaging, and access to web-based reference services, anywhere and at anytime.

Archives

The Archives mounted a number of high quality exhibitions and displays to support the teaching and research mission of the University, the wider community and to mark important national events. During the period, posters showcasing the following events were prepared and mounted:

1. The Life of Nelson Mandela
2. Black History month - The Maroons of Jamaica
3. The strategic importance of Goat Island

Collection Development

One of the major highlights for the division for the period under review was the receipt of the personal cricket collection of James 'Jimmy' Richards, well known cricket statistician and sports journalist. The collection included audio cassettes, scrapbooks, journals, magazines, newspaper supplements and books.



Students utilizing Reading Room



The James 'Jimmy' Richards Cricket collection

Acquisitions

Over 3,556 new volumes were acquired.

E-books

Through the College Libraries Information Network (COLINET) the library entered into an arrangement with Proquest to acquire e-books in the following disciplines: Business and Management, Education, Engineering, Health & Medicine, Law, Humanities, Science and Technology and the Social Sciences. This has given the library access to more than 33,000 e-books. Additional sources were Springer, EBSCOHOST and e-library.

Library Information Systems & Outreach Services (LISOS)

Information literacy

The library partnered with the College of Health Sciences (COHS) and the Office of Distance Learning (ODL) in developing an Information Literacy module as a part of the Online Post Diploma Pharmacy programme.

Two (2) database training sessions were conducted for lecturers at the Papine campus. EBSCO Discovery

services training was also facilitated for postgraduate students at the Dome Street, Montego Bay campus and for a combination of faculty and students at both the Slipe Pen Road and Arthur Wint Drive campuses.

Service Points

Montego Bay

The much anticipated relocation of the Western Campus took place during the summer of 2013. The lending collection from the Barnett Clinic was also relocated to Dome Street, resulting in the Barnett Clinic seeing a significant decrease in traffic, since it is now a read-only facility. These developments have rendered library space inadequate, increasing the already urgent need for additional access, particularly to on-line resources.

Instructional Media Services Division

The Instructional Media Services Division is an integral part of the Calvin McKain Library with core functions which include the development and facilitation of access to the collection of non-print instructional materials and the design and production of audiovisual and graphics materials. However, the Division has traditionally provided a diversity of services to the wider university community, including multi-media coverage and other forms of support to a range of University activities, and continues to do so.



Academic Affairs Division (Cont'd.)

OFFICE OF DISTANCE LEARNING (ODL)



Dr. Jeanette Bartley-Bryan
Associate Vice President

Collaboration between several faculties and the Office of Distance Learning has borne fruit with the expansion of online delivery across the region. To date, UTech has graduated over ninety-five (95) online students from an associate degree and three certificate courses and as of this year, would have extended its online footprint to ten (10) Caribbean countries.

In September 2013, the College of Health Sciences commenced its first online course of study, the Post Diploma in Pharmacy, with forty-five (45) students from the Caribbean, including Barbados, St. Lucia, Grenada, Antigua and St. Kitts & Nevis. The College also developed a fully online certificate course in Herbology of approximately nine months duration and targeted at self-directed learners, who are able to enrol anytime, anywhere and work at their own pace.

The School of Computing & Information Technology (SCIT) attracted a second cohort to pursue the online-blended Post Diploma in Information & Communication Technology, which was launched in September 2012. The delivery to the first cohort is 90% complete.

Module Development & Delivery

Five (5) general education and service modules have been adapted for full online delivery.

- Two modules, Research Methodology and Biostatistics, were offered to over thirty (30) students pursuing the online Post Diploma in Pharmacy. A third module, Environmental Studies, was pilot tested with twelve (12) students from UTech-Papine campus and will be fully launched in September 2014. All three modules

are delivered by the Faculty of Science and Sport.

- The fourth module, Introduction to Psychology, will also be offered initially to the Pharmacy students in their third semester of academic year 2013/2014. It is delivered by the Faculty of Education and Liberal Studies.
- The general education module – Introduction to Information Technology, launched in September 2012 by SCIT, has been delivered to over one thousand four hundred (1400) students across five (5) semesters.

An Information Literacy module was developed by the Library to orient students to the basic concepts of library studies and to introduce students to the services and resources of the Calvin McKain Library.

The ODL also developed a module for instructing lecturers how to effectively manage their online modules. This module was delivered to over ten (10) faculty members and four (4) Country Coordinators involved in the online Post Diploma in Pharmacy Programme.

Training Facilitation

The ODL supported over one hundred and fifty (150) persons during 2013-2014 through the provision of training, individual coaching sessions, instructional design support and technical guidance for online course design and development. The client activities included training of 34 Lab Technicians to facilitate student-orientation sessions; customized workshops on specific design approaches for faculty members from the School



Dr. Fritz Pinnock, Executive Director of the Caribbean Maritime Institute, giving an overview of the Logistics Hub live and direct from UTech, Jamaica, Papine Campus over the JREN-C@ribNET network to EduVision 2014 participants at the Hilton Rose Hall, Montego Bay.



of Computing & Information Technology, the Faculty of Education and Liberal Studies, and the Western Campus; and new-faculty orientation workshops held in collaboration with the Human Resource Department each semester.

Jamaica Research and Education Network (JREN)

UTech-Papine campus was the main remote site for the hosting of the JREN videoconferencing sessions held during March 18-19, 2014, as part of EDUVISION 2014 at the Hilton Rose Hall Hotel. Two UTech faculty-members - Dr Sean Thorpe and Dr Christine Fray-Aiken were guest presenters.



Division of Student Services and Registry



Dr. Elaine Wallace
University Registrar

The Division of Student Services and Registry is headed by the University Registrar and oversees the functions of the Academic Services Department and the Student Services Department.

OFFICE OF THE REGISTRAR

GRADUATION

The University hosted two graduation ceremonies for its Class of 2013 on November 2, 2013 at the National Arena, Kingston and on November 9, 2013 at the Montego Bay Convention Centre.



UTech's first terminal degree graduates: Dr. Norman Dunn, Dr. Michelle Douglas-Shaw, Dr. Pheyona Oates, Dr. Michelle Young-Brown and Dr. Sean Thorpe pose with their certificates following the Graduation Ceremony held on Saturday, November 2, 2013 at the National Arena, Kingston.

Hall Hotel and Spa, Montego Bay, St James on January 31, 2014. The Chancellor's Medal is the highest non-academic award that can be bestowed by the University and is comparable to an honorary doctorate.

STUDENT RECRUITMENT

The role of the Student Recruitment Unit is to develop and implement strategies to increase student intake for the University including its satellite campuses. The Unit identifies prospective students, provides them with



First Class Honours graduate, Miss Kerri-Lee Chintersing, Valedictorian, addressing the UTech Graduating Class of 201 at the Graduation ceremony held at the National Arena, Kingston.



CHANCELLOR'S MEDAL 2013

Mrs Shelly-Ann Fraser-Pryce, University of Technology, Jamaica Ambassador, was presented the Chancellor's Medal 2013 for her achievements in sport as an Olympic and world sprint champion. The medal was presented during the International Association of University Presidents (IAUP) Delegates Banquet at the Hilton Rose

information about the University and encourages them to enroll at the University. During the review period the Student Recruitment Unit actively followed up over 3500 prospects who had expressed an interest in enrolling for the 2013/14 academic year; 24% of these applied for entry to the university.



Honorary Graduates Hon. Burchell Whiteman (3rd left) and Hon. Kenneth Benjamin, OJ (4th left) pose with from left Prof. Gossett Oliver, Deputy President (Acting), Prof. the Hon. Errol Morrison, OJ, President, Mr. Vivian Crawford, Pro-Chancellor and the Most Hon. Edward Seaga, ON, PC, Chancellor



Chancellor Seaga confers the Honorary Doctor of Laws Honoris Causa on Mrs Michele. Rollins in recognition of her contribution to the development of Jamaica. Sharing in the moment is President, Prof. the Hon. Errol Morrison, OJ.



Olympian Shelly-Ann Fraser-Pryce (right) accepts the UTech Chancellor's Medal from the Most Hon. Edward Seaga, Pro-Chancellor, presented to her during the IAUP Delegates' banquet on Friday, January 31, 2014 at the Hilton Rose Hall and Spa, Montego Bay. Sharing in the proud moment are Prof. the Hon. Errol Morrison, OJ, President, UTech and Prof. Neal King, President, IAUP.

Local Student Recruitment

The main local student recruitment event was the Annual Open House on Tuesday, September 24 in Kingston and Thursday, September 26 in Montego Bay. Over 1,300 students from 37 registered high schools participated in Kingston and approximately 150 from 7 schools participated in Montego Bay. A total of 153 application forms were collected from both events.

International Recruitment

University recruiters attended International College Fairs in St. Vincent and Barbados where applications

were collected. Many of these applicants have been accepted for the 2014 academic year.

Orientation 2013

The University welcomed over 1,000 new and transfer students during its annual Orientation Programme, held under the theme "Transformation through Higher Education."



Janice Williams, representative from the Office of Admission and Enrolment Management distributing contact sheets at Old Harbour High

The orientation programme was delivered at the Papine and Montego Bay campuses.

Student Leadership Conference

The Student Services Department, hosted the University's 15th Annual Student Leadership Conference under the theme "Leaders for National Transformation: No Compromise," in May 2013 at the UTech, Papine Campus and at the Moorlands Campsite in Manchester. Ninety-eight students participated.



Division of Student Services and Registry *cont'd*

The conference was supported by a diverse group of benefactors: Sagicor, CAST/UTech Alumni South Florida Chapter, CAST/UTech Alumni New York Chapter, H.D.B. Construction, UWI (Mona) & Community Cooperative Credit Union Limited, Jamaica Broilers Group Limited, Continental Bakery, Old McDonald, Victoria Mutual Building Society, Digicel and Juici Beef.

Special Needs Support Services



Mr. Andre Campbell, one of four special needs students who graduated in 2013 receives his certificate from President Morrison at the graduation ceremony held at the National Arena on November 2, 2013. Mr. Andre Campbell earned the Bachelor of Science in Construction Management from the Faculty of Built Environment.

The Office of the Assistant Registrar, Students Services has led the university-wide effort to minimize the challenges to students with special needs. The Disability Unit for persons with special needs provides support for new and returning students with a wide range of professionally diagnosed conditions. Twenty five (25) students with special needs were registered with the Unit and received academic accommodation.

CAREER AND PLACEMENT

The University continues to create a number of opportunities for students about to make the transition



A Final year student participates in a job interview during the 2014 Job Fair.

into the working world to enhance their marketability. The Career and Placement Unit organized mock interviews, a career and job placement fair, employment empowerment sessions and a mentoring programme which focuses on employability.

GRADUATE TRACER STUDY 2013

A tracer study was conducted among 2012 graduates who have used the services of the Unit for job search. Of 149 respondents, 66% indicated that they were employed; 27% had been assisted by the Career and Placement Unit. Forty-two percent (42%) were employed in areas related to their area of study.

DEBATING AND PUBLIC SPEAKING

The University of Technology, Jamaica has maintained its dominance in the Caribbean and Latin America Region, following impressive performances by its two teams at the 34th World Universities Debating Championships. This, the world's largest and most prestigious debating competition, was held at the

UTECH RETAINS REGIONAL DOMINANCE IN WORLD



UTech Debaters from left: Omrie Samuels, Newton Harris, Chad Zamore and Germaine Barrett and Mrs. Mercedes Dean, Deputy Registrar and Team Advisor.

Rajalaskhmi Engineering College in Chennai, India from December 26, 2013 to January 4, 2014 and featured 340 teams and approximately 300 adjudicators drawn from 50 countries. In this gruelling contest UTech's 'A' team, comprising Omrie Samuels and Germaine Barrett, ended on cumulative speaker points of 1326, making them the highest ranked regional team. Germaine Barrett earned the overall second place in the public speaking competition.



UTech's 'B' team, comprising, Lamar Webb and Newton Harris, who were first-time participants in this 'Olympics of Debating', finished on 1293 cumulative speaker points, positioning them just behind the more experienced UWI Mona team which ended on 1310 cumulative speaker points. Accompanying the UTech teams were Chad Zamore as an Observer and Mercedes Deane as Head of Delegation and an Adjudicator.

UTech debaters also acquitted themselves with distinction in the Pan American Universities Debating Championships (PUDC) 2014 held January 24-26, 2014, at the University of Miami, Florida, featuring a total of forty teams in the English division and twelve teams debating in Spanish. 'Technology Jamaica' fielded the team of Germaine Barrett and Chad Zamore, who were deemed 2nd and 4th best speakers, respectively. The team was ranked fifth in the overall standings.

The 2014 Sagicor-UTech National Debating Championship (Sagicor UTechNDC) held on March 5, 2014 has established UTech as undisputed leaders in British Parliamentary Debating in Jamaica. Making the finals of the 2014 championship were the UTech B team of Omrie Samuels and Chad Zamore, Bridgport B's Oshieka Henry and Daejanique Thomas; Jahnhigh Clemmence and Jamar Pike of UWI, Mona C and the UTech A team of Lamar Webb and Newton Harris. In the final analysis, UTech's C Team prevailed to win the champion trophy thus enshrining UTech as sole victors of this national championship since its inception in 2011.

University Secretariat

SIGNIFICANT ACHIEVEMENTS/DECISIONS FROM THE UNIVERSITY'S COUNCIL

The following summarises the decisions of the Council in accordance with its powers under the University of Technology, Jamaica Act (No. 27) of 1999:

Council Membership

There were changes in Council membership as a result of casual vacancies which were addressed in the period. These were as follows:

- Mr. Dennis Chung was appointed to the post of Honorary Treasurer. He was already a member of Council, sitting as Chancellor's Nominee, and replaced Mr. Vivian Crawford who had been previously appointed as Pro-Chancellor.
- The Most Honourable Errald Miller and Dr Shane Alexis were appointed as the Chancellor's Nominee and the Professional Bodies' Nominee by Cabinet on December 16, 2013. Dr. Shane Alexis replaced

Dr. Aggrey Irons, outgoing President of the Medical Association of Jamaica, The MAJ currently serves as the Professional Body on the Council.

- Miss Delta Wright replaced Mr. Greaville Smith as the elected Students' Union President with effect from April 1, 2014.

Annual General Meeting of Council

The Annual General Meeting of the Council was held on January 20, 2014 at the Joan Duncan School of Entrepreneurship, Ethics and Leadership Conference Room located on the University's Papine Campus. Approval was given for the appointment of PricewaterhouseCoopers as the external Auditors for the University for the period 2013/2014 at this meeting.

Council Retreat

Council Retreat 2014 was held on February 17, 2014 at which the Council considered the current directions and perspectives of UTech's development. Detailed consideration was given to the Operational Plan for 2014-2015, which was approved subject to amendments.

Committee to Review UTech Operations

The Council at its meeting held October 3rd 2013 and the Academic Board at a meeting held October 4th 2013 unanimously approved a resolution for the establishment of a Special Advisory Committee on the University of Technology, Jamaica, which had been proposed by the Hon. Minister of Education and was subsequently established on October 29, 2013. The Committee which was chaired by Ambassador Derick Heaven C.D., Chairman of the Sugar Industry Authority and included the Hon. Shirley Tyndall O.J., C.D., former Financial Secretary, Mrs Olubusola Akinladejo, representative of UTech staff unions and Dr Kofi Nkrumah-Young, representative of UTech management. The four member Committee which had been established to address concerns that had been raised by the staff unions, University of Technology Academic Staff Union (UTASU), University of Technology, Jamaica Administrative Staff Union (UTASA) and the University and Allied Workers Union (UAWU) that had spilled over in the public domain. The Committee had invited written submissions from members of the University and was supported where necessary by oral presentations from persons who were invited to address specific matters.



Division of Student Services and Registry *cont'd*

The final report of the Committee which presented Governance, Human Resources and Fiduciary concerns was received by the Pro-Chancellor on March 10th, 2014, and considered by Council on March 11th, 17th and 24th 2014. The Council's consideration of the report and the required responses began in earnest on March 17th and was completed on March 24th where it had benefitted from recommendations proposed by the external members of the Council from a meeting held on March 22nd 2013. Decisions were arrived at as to how several matters were to be treated by the University's management and timelines for reporting on the same had been proposed and action the matters initiated.

SIGNIFICANT ACHIEVEMENTS OF THE UNIVERSITY SECRETARIAT

The achievements of the University Secretariat are integrally related to the functions and activities of the University's main governing bodies, the Council and the Academic Board and their respective standing committees to which the Secretariat provides support. These are presented below.

Governance Instruments

Several Governance instruments were reviewed or newly developed and subsequently approved by the Council on the recommendation of the Governance Committee during the fiscal year to address gaps and to improve the corporate governance framework of the institution. Ordinances, administrative policies and procedures, proposals, and matters related to committee administration were the main areas of focus during the fiscal year.

Ordinances

Review of the Ordinance which addresses Council Procedures was completed and review of that relating to academic staff appointment, promotion and tenure was significantly advanced during this period. No new Ordinances were developed.

Administrative Policies

New policies addressed Staff Welfare; the appropriation of benefits to the members of the

Students' Union Council; Consultancy, and Use of University vehicles. The revised Students' Union Constitution and the associated By Laws for the Western campus and Graduate Students By Laws were also approved.

Terms of Reference and associated documents

The Terms of Reference for the Committee with the responsibility for the review of the University of Technology, Jamaica Act (No 23 of 1999) were approved by Council. The Terms of Reference for the Governance Committee were amended to include representatives from each of the three staff Unions.

Appointments to Standing Committees

Council members were appointed to vacancies on standing committees and external persons were appointed as co-opted members in keeping with the provision of the Terms of Reference. Committee members are provided in Appendix I.

Frequency of meetings of Council

The frequency of Council meetings was increased in November from once per quarter to monthly meetings to facilitate timely consideration of an increased number of matters to be deliberated by Council. As a consequence, Council met on 14 occasions during the period, three of these sittings, being continuation of adjourned meetings. Six meetings were held between January to March 2014.

Committee Administration

The University Secretariat gave significant focus to administrative support for the work of the governing bodies of the University, the Council and the Academic Board as well as the following standing and Adhoc Committees of the Council:

Governance, Finance, Joint Committee for Honorary Degrees and Other Awards, Remuneration, Joint Committee for Council and Academic Board for the Reappointment of President, University Appointments and Promotions Committee and the AdHoc Committee for Appointment of Honorary Treasurer were the primary areas of focus.



Department of Student Financing

The Department of Student Financing covers operations in five (5) core units: Scholarship, Welfare, Student Receivables, Cashiering and Debt Management. For the 2013/14 fiscal year, the Department processed just over Eighty-six Thousand (86,819) walk-in customers, through our various service points (see table 1.1 for details). This number does not include customers attended to by email, telephone, online or those who utilize our external payment agencies for tuition and other school related payments.

GENERAL ENROLMENT & INCOME

Over the last six years, the University of Technology (UTech), Jamaica has experienced a steady growth in enrolment. This growth has allowed the University to increase its income by approximately 63%, over the same period; earning just over \$3.3 Billion Dollars (\$3,300,459,265.36) in 2013/14.

SCHOLARSHIPS AND BURSARIES

For the 2013/14 fiscal year, the Scholarship Unit administered scholarships for 153 public and private sector donors which translated to scholarships and bursaries valuing over \$113 Million Dollars (\$113,773,355); benefiting Seven Hundred and thirty-six (736) students. (see table 1.2 for details).

Figure 1.2, indicates that there has been a consistent increase in the portfolio since 2008/9. The portfolio peaked for the 2013/14 fiscal year at \$113 million; an increase of \$25 Million (29%) over the previous year.

IMPORTANT LINKAGES

WINDALCO continues to make sterling a contribution to the University's scholarship programme by awarding \$1.3 Million Dollars in scholarships for the 2013/14 academic year. In addition to the generous contribution, WINDALCO continues to provide employment to the awardees after graduation, predominantly in the field of Mechanical Engineering.

In addition to the \$1.1 Million Dollars (\$1,134,990) awarded as scholarships, the Jamaica Observer provided the opportunity for 48 students from the School of Hospitality and Tourism Management to participate as volunteers for the third consecutive year in the staging of the Jamaica Observer 'Table Talk' Food Award, and contributed an additional \$144,000 as stipend for the student volunteers.

WELFARE PROGRAMMES



Left to Right: Tshani Jaja (Marketing Manager, Jamaica Yellow Pages) Awardees: Lasanna Allen, Nashana Murray, Zola Davis, Danville Walker (Managing Director, Jamaica Observer), Leanne Morrison (Awardee), Novia McDonald-Whyte (Lifestyle Editor, Jamaica Observer), Krystal Thomas (Awardee), Pauline Madourie (Scholarship Officer, UTech) & Garcia Green-McLennon (Director, Student Financing, UTech)



Above- Left to Right: Garcia Green-McLennon, Director of Student Financing, UTech, Kayon Wallace, Senior Information and Public Affairs Officer, WINDALCO and Pauline Madourie, Scholarship Officer, UTech.

For the 2013/14 fiscal year, Five Hundred and Seventy (570) needy students benefitted from welfare assistance in the form of grants, lunch subsidy and bus passes just under \$9 Million Dollars (\$8,827,163.96); an increase of 18% in the number of students assisted in the previous year, and a 47% increase in the amount of money spent.



Department of Student Financing *cont'd*

Table 1.2: Analysis of Scholarships and Bursaries by Faculties over Six (6) Year Period (2008-2014)

YEARS	COBAM		FENC		FOBE		COHS & COPHS		FOSS		FELS		FOL		TOTAL	
	No.	\$\$	No.	\$\$	No.	\$\$	No.	\$\$	No.	\$\$	No.	\$\$	No.	\$\$	No.	\$\$
2008/09	82	8,775,665.00	52	6,628,849.00	47	4,676,230.00	137	24,929,920.00	0	0.00	13	1,046,430.00	0	0	331	46,057,094.00
2009/10	81	9,172,751.33	75	9,839,090.16	61	6,594,511.33	161	39,269,518.83	0	0.00	20	1,676,173.83	3	446,200.00	401	66,998,245.48
2010/11	136	14,169,470.00	124	30,254,889.77	80	10,743,207.50	163	29,201,148.00	0	0.00	38	4,166,944.50	15	1,871,120.00	556	90,406,779.77
2011/12	170	19,626,297.33	142	21,694,085.16	71	9,061,270.00	127	25,967,354.99	0	0.00	47	5,555,910.00	18	2,074,060.00	575	83,978,977.48
2012/13	168	20,411,487.75	117	18,606,695.28	68	8,904,147.13	95	18,844,838.50	67	11,360,890.00	59	7,765,644.50	26	2,434,570.00	600	88,328,273.16
2013/14	219	26,858,539.13	129	19,297,412.23	75	10,642,771.91	132	32,020,240.37	96	14,719,605.00	59	7,180,952.24	26	3,053,835.00	736	113,773,355.88
TOTAL	856	99,014,210.54	639	106,321,021.60	402	50,622,137.87	815	170,233,020.69	163	26,080,495.00	236	27,392,055.07	88	9,879,785.00	3,199	489,542,725.77

Figure 1.2: Trend Analysis of Scholarship and Bursaries 2008-2014

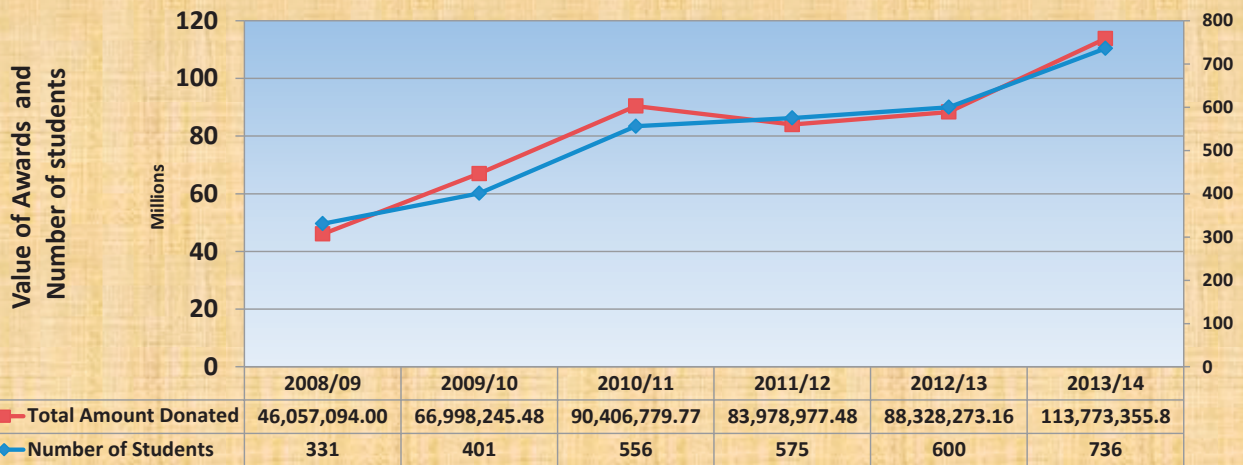
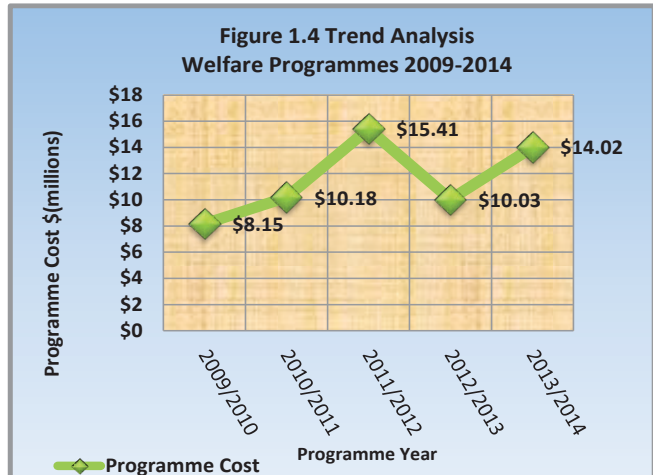
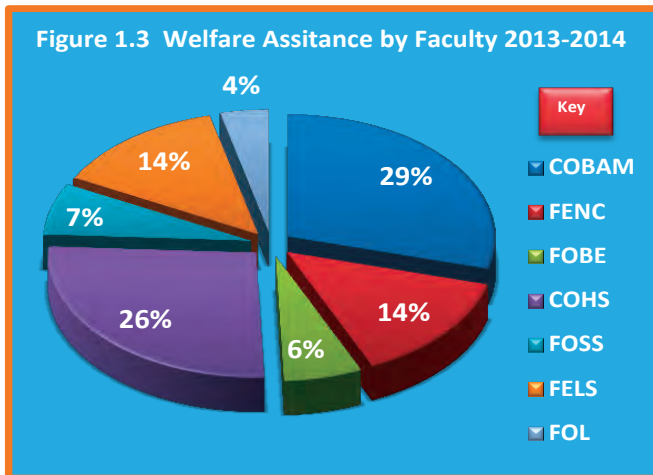


Table 1.3: Total Welfare Grant Assistance by Faculty 2008 -2014

YEAR	FENC	COBAM	FOBE	COHS & COPHS	FOSS	FELS	FOL	TOTAL
2008/2009	68	94	43	70	0	52	1	328
2009/2010	78	184	50	83	0	71	37	503
2010/2011	123	230	30	142	0	72	14	611
2011/2012	137	249	75	195	0	101	24	781
2012/13	85	187	52	152	0	51	25	552
2013/14	89	181	47	164	64	88	20	653
TOTAL	580	1125	297	806	64	435	121	3428

Table 1.4: Welfare Programmes for 2013/14

DETAILS	NUMBER OF STUDENTS BY FACULTIES							TOTAL	
	COBAM	FENC	FOBE	COHS & COPHS	FOSS	FELS	FOL	No.	Value \$
Welfare Grants	116	56	24	105	27	54	15	397	6,369,163.96
Lunch	24	22	8	46	15	21	1	137	2,260,000.00
Bus Pass	8	5	5	8	3	5	2	36	198,000.00
Sub Total	148	83	37	159	45	80	18	570	8,827,163.96
Sports	33	6	10	5	19	8	2	83	5,200,000.00
TOTAL	181	89	47	164	64	88	20	653	14,027,163.96



Sports Meal Programme

In October 2011, the Welfare Unit assumed responsibility for the feeding programme for student athletes. Under this arrangement, student athletes from three sporting disciplines (Track & Field, Cricket and Table Tennis) are provided with at least one meal per day. Therefore, in addition to the previously stated figures, an additional 83 student athletes were fed at a cost of \$5.2 Million Dollars (\$5,200,000). This brings the total expenditure on welfare activities to \$14 Million Dollars (\$14,027,163.96), benefiting a total of 653 students (see table 1.4 for details).

EARN & STUDY PROGRAMME

Table 1.6 (on page 21) indicates that for the 2013/14 fiscal year, a total of 391 students have been employed on the Earn & Study Programme across the three semesters. The current cost of the programme is \$35.3 Million Dollars (\$35,379,734.50). This represents a 42% decrease in students employed over the previous year and a 20% decrease in the amount of monies spent. This general downward trend began in 2012 and is a direct result of the worsening economic climate being experienced by the country and the University.

The Expanded Earn & Study Programme

The Expanded Programme was launched in August of 2010 in response to the tremendous demands being placed on the Regular Earn & Study Programme, by students desperate for additional sources of income, as well as UTech's continuous manpower needs. For the current review period 89 students have been employed on the expanded programme at a cost of \$10,599,884.50.

SPONSORSHIP

The University through its Debt Management Unit extends credit to students who are sponsored by various public and private sector entities; which operate both locally and internationally. Once approved, this credit facility allows students to be registered, pending payment by the sponsor at later date in the academic year.

At the close of the 2013/14 fiscal year, the total value of sponsorship was \$1.38 Billion Dollars (\$1,383,799,413.65) from 117 public and private sector companies. Please note that this figure also includes 18 international sponsors. See table 1.6 for details.

Figure 1.6 (on page 21) indicates that the Students Loan Bureau represents 88% of the total sponsorship, and when coupled with the 5% from the various government ministries/departments, the Government of Jamaica is responsible for 93% of the total sponsorship/credit extended to students, while private sector companies and international sponsors account for the remaining 7%.

SUMMARY OF OPERATIONS

At the close of the 2013/14 fiscal year, the total value of the funds under the management of the Department of Student Financing for student support services was over \$1.5 Billion Dollars (\$1,546,979,667.99). Of this figure, \$160 Million Dollars (\$163,180,254.34) was provided as financial aid to students in the form of scholarships bursaries, grants, meal assistance and the student work programme. The additional \$1.3 Billion Dollars (\$1,383,799,413.65) was garnered as public and private sponsorship to students for the payment of tuition and

boarding fees. Table 1.7 (on page 21) provides further details.



Department of Student Financing *cont'd*

Table 1.6 Sponsorship Analysis for 2013/14

No. of Local/International Sponsors	Sponsor Type	Total Amount Sponsored Local (JA\$)	Percentage (%)
84	Local Private Sponsorship	28,636,647.86	2
14	Government of Jamaica (GOJ)	64,334,727.27	5
1	Student Loans Bureau (SLB)	1,214,279,772.50	88
18	International Sponsorship	76,548,266.02	5
117	GRAND TOTAL	\$1,383,799,413.65	100

Figure 1.6 Sponsorship Analysis 2013/2014

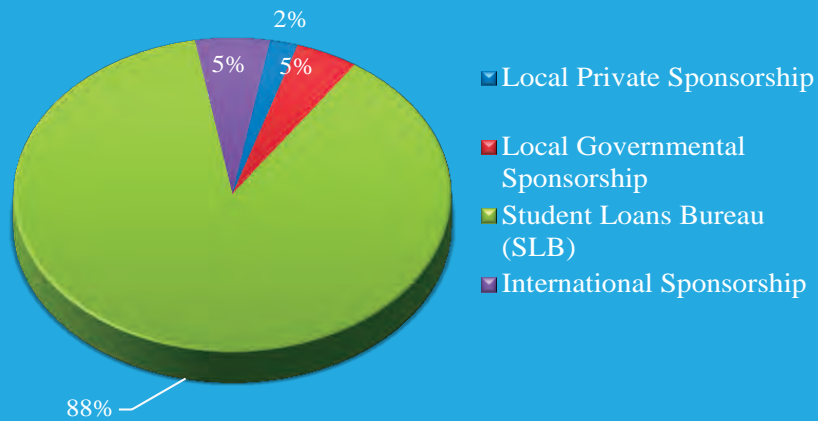


Figure 1.5 Trend Analysis Earn and Study 2008-2014

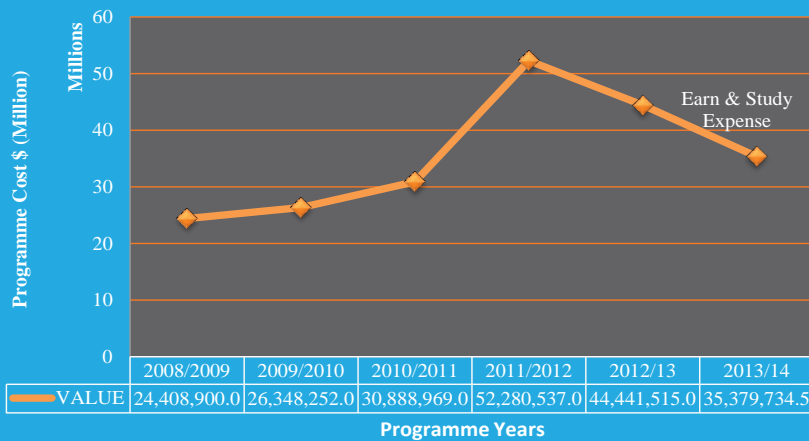




Table 1.7 Summary of Operations of the Department of Student Financing for 2013/14

DETAILS	NUMBER OF STUDENTS BY FACULTIES							Total No. Of Students	TOTAL VALUE \$\$\$
	COBAM	FENC	FOBE	COHS / COPHS	FOSS	FELS	FOL		
Scholarships & Bursaries	219	129	75	132	96	59	26	736	113,773,355.88
Welfare Grants	148	83	37	159	45	80	18	570	8,827,163.96
Sports Meals	33	6	10	5	19	8	2	83	5,200,000.00
Earn Study &	106	90	21	44	39	75	16	391	35,379,734.50
<u>Total Financial Aid Portfolio</u>	<u>506</u>	<u>308</u>	<u>143</u>	<u>340</u>	<u>199</u>	<u>222</u>	<u>62</u>	<u>1780</u>	<u>163,180,254.34</u>
<u>Sponsorship</u>									<u>1,383,799,413.65</u>
GRAND TOTAL									1,546,979,667.99

Table 1.5 Earn And Study Programme Analysis 2008 - 2014									
YEARS	COBAM	FELS	FENC	FOBE	COHS & COPHS	FOSS	FOL	GRAND TOTAL	VALUE
									\$\$\$
2008/2009	157	75	94	16	46	0	0	388	24,408,900.00
2009/2010	153	81	102	15	54	0	3	408	26,348,252.00
2010/2011	152	98	181	28	40	42	17	558	30,888,969.00
2011/2012	203	100	183	35	82	69	23	695	52,280,537.00
2012/13	179	135	173	35	66	67	22	677	44,441,515.00
2013/14	106	75	90	21	44	39	16	391	35,379,734.50
TOTAL	950	564	823	150	332	217	81	3117	213,747,907.00



STUDENTS' UNION



Mr. Greaville Smith

President

Succeeding Students Union Councils strive to build on their predecessors' record of serving and representing the university's student body. The Students Union Council for Academic Year 2013/14, the Union's 56th year, was active in pursuing several of the perennial priorities. High on the priority list were:

- Accreditation of degrees offered by UTech
- The concern of the students is aligned with that of all other responsible units of the University and through sustained effort several courses of study received accreditation during the year.
- Greater financial support
- The Offices of the VP Finance and President of the UTech Students' Union made history in approving disbursement of approximately Nine Million Jamaica Dollars (JMD9, 000,000.00) in bursaries and grants, assisting ALL bursary applicants, as well as students with extraordinary requests for financial assistance.
- Integration of and equal status for the Western campus

The existence of the Western Campus has firmly entered the consciousness of the Papine campus and all efforts to improve student welfare or benefits are extended to UTech students beyond Papine. This is met with equal effort on the part of the students of the Western Campus, through their representative on the Council, to secure equal rights. Two successful outcomes of the concerted action were the purchase of a bus which was made available to the Western Campus, and the revision of Students Union Constitution to include Western Campus By-Laws.

Some notable initiatives/successes this year were:

- Initiation of an Endowment Policy to allow for the investment of a portion of Students' Union dues. The Endowment is part of a long-term contingency plan being developed by the Union to ensure continuing benefits to students.
- Record-breaking partnerships were established with three (3) major companies leading to exceptional sponsorship arrangements. The contribution of the companies, J.Wray & Nephew Ltd., Pepsi and Ting, Reggae Jamminz, were the highest in the history of

the Students' Union, and benefited both the Main Campus and the Western Campus.

- o J. Wray and Nephew Ltd contributed Eleven Million Jamaican Dollars (JMD11, 000,000.00) in products and cash as well as the infrastructural development of the Students' Activity Centre.
- o Pepsi Cola Jamaica contributed Five Million Jamaican Dollars (JMD 5, 000,000.00) in products and cash,
- o Reggae Jamminz contributed approximately Six Hundred Thousand Jamaican Dollars (JMD 600,000.00) in discounts, cash, and products.

Two of the Union's annual signature community service activities recorded significant success this year.

Tag Drive

Tagdrive dates back to 1968 and has continued uninterrupted despite changing habits of giving. For the first time since its inception, the drive registered over 1500 participating students and crossed the million dollar mark in collections.



The 2013/2014 Students' Union Executive of the University of Technology, Jamaica (UTech) officially launched its Annual Tagdrive community service initiative on Monday, November 11, 2013 at the UTech Papine campus. Sharing in the unveiling of the Tag Drive T-Shirt are from left, Mr. Greaville Smith, President, UTech's Students' Union, Ms. Cherine Forbes, Marketing Coordinator, Pepsi Cola Jamaica and sponsor and Miss Shanique Francis, Director, Spiritual Development, UTech Students' Union.

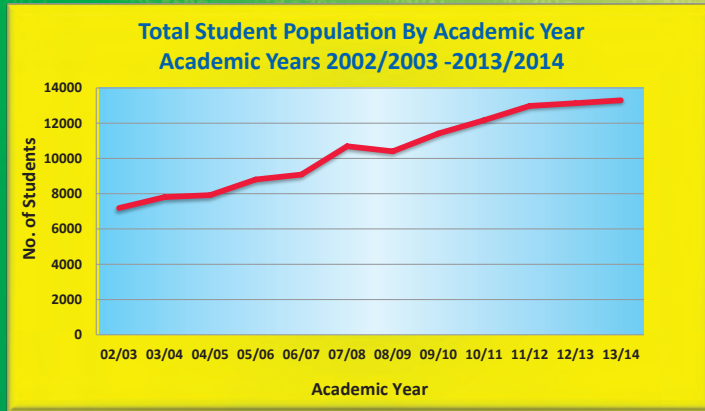
The Teach the Youth Programme is an education and mentorship programme conducted by students in June to July each year, for children in the communities of August Town, Kintyre, Hope Tavern, Highlight View and Sandy Park as well. An Opening Ceremony was held on the Papine Campus, the programme was conducted in the communities and the closing activity of a sports day was held on the Papine campus. Good media coverage, high attendance and record sponsorship contributed to the success of this year's event.



Student Demographics - Academic Year 2013/2014

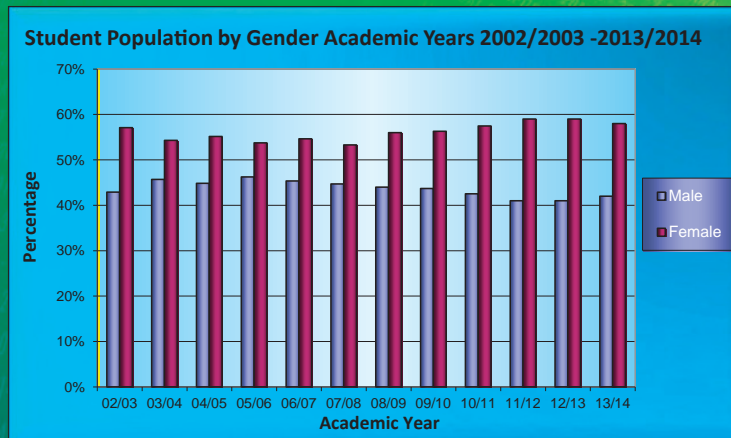
Total Student Population by Academic Year

Student Population	
Year	Total
02/03	7187
03/04	7806
04/05	7919
05/06	8803
06/07	9088
07/08	10694
08/09	10401
09/10	11409
10/11	12162
11/12	12978
12/13	13131
13/14	13303



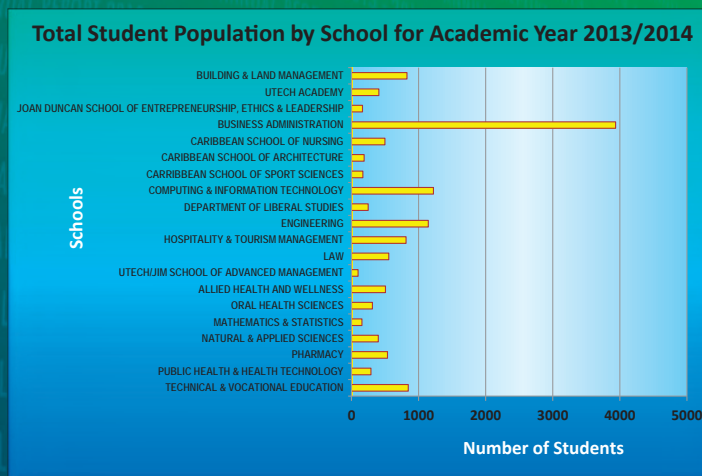
Student Population by Gender Academic Years 2002/2003 - 2013/2014

Year	Male	Female
02/03	42.9%	57.1%
03/04	45.7%	54.3%
04/05	44.84%	55.16%
05/06	46.25%	53.75%
06/07	45.36%	54.64%
07/08	44.70%	53.30%
08/09	44.00%	56%
09/10	43.70%	56.30%
10/11	42.53%	57.47%
11/12	41%	59%
12/13	41%	59%
13/14	42%	58%



Total Student Population By School 2013/2014

School	Number
TECHNICAL & VOCATIONAL EDUCATION	846
PUBLIC HEALTH & HEALTH TECHNOLOGY	288
PHARMACY	535
NATURAL & APPLIED SCIENCES	400
MATHEMATICS & STATISTICS	156
ORAL HEALTH SCIENCES	310
ALLIED HEALTH AND WELLNESS	505
UTECH/JIM SCHOOL OF ADVANCED MANAGEMENT	98
LAW	554
HOSPITALITY & TOURISM MANAGEMENT	812
ENGINEERING	1143
DEPARTMENT OF LIBERAL STUDIES	249
COMPUTING & INFORMATION TECHNOLOGY	1220
CARRIBBEAN SCHOOL OF SPORT SCIENCES	170
CARRIBBEAN SCHOOL OF ARCHITECTURE	188
CARRIBBEAN SCHOOL OF NURSING	497
BUSINESS ADMINISTRATION	3936
JOAN DUNCAN SCHOOL OF ENTREPRENEURSHIP, ETHICS & LEADERSHIP	164
UTECH ACADEMY	406
BUILDING & LAND MANAGEMENT	826
TOTAL	13303

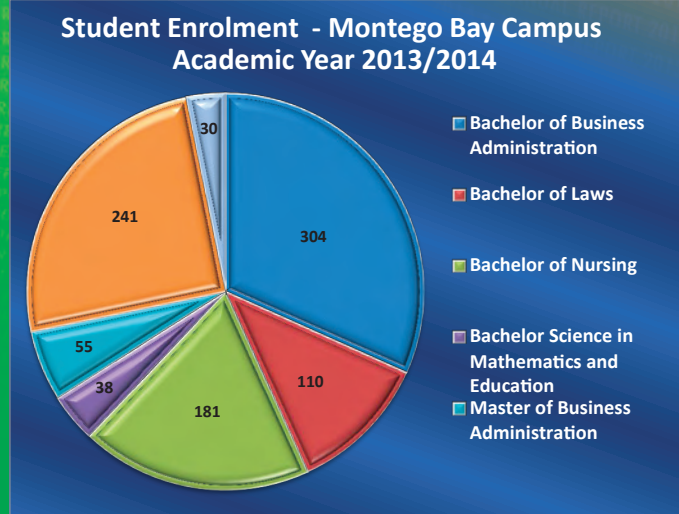




Student Demographics - Academic Year 2013/2014

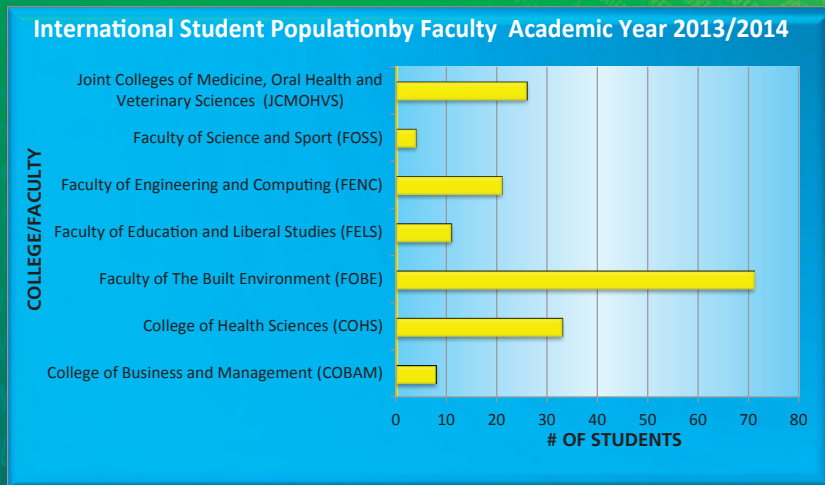
Student Enrolment - Montego Bay Campus 2013/2014

Programme	No. of Students
Bachelor of Business Administration	304
Bachelor of Laws	110
Bachelor of Nursing	181
Bachelor Science in Mathematics and Education	38
Masters of Business Administration	55
Associate Degree - Business Administration	241
Pre-University	30
Total	959



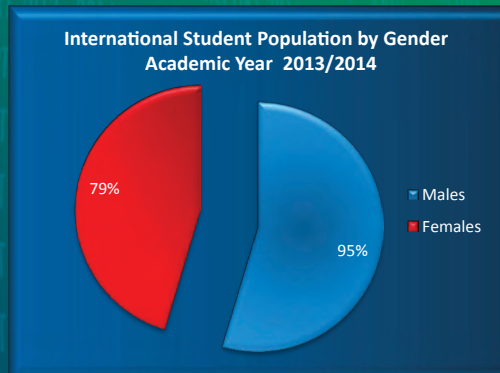
International Student Population by Faculty - Academic Year 2013/2014

College/Faculty	Total
College of Business and Management (COBAM)	8
College of Health Sciences (COHS)	33
Faculty of The Built Environment (FOBE)	71
Faculty of Education and Liberal Studies (FELS)	11
Faculty of Engineering and Computing (FENC)	21
Faculty of Science and Sport (FOSS)	4
Joint Colleges of Medicine, Oral Health and Veterinary Sciences (JCMOHVS)	26
TOTAL	174



International Student Population by Gender - Academic Year 2013/2014

Males	95
Females	79
TOTAL	174

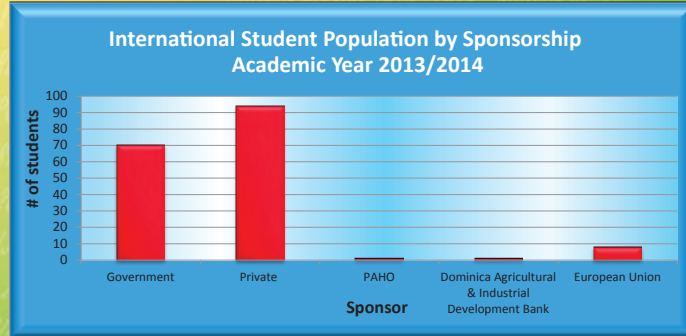




Student Demographics - Academic Year 2013/2014

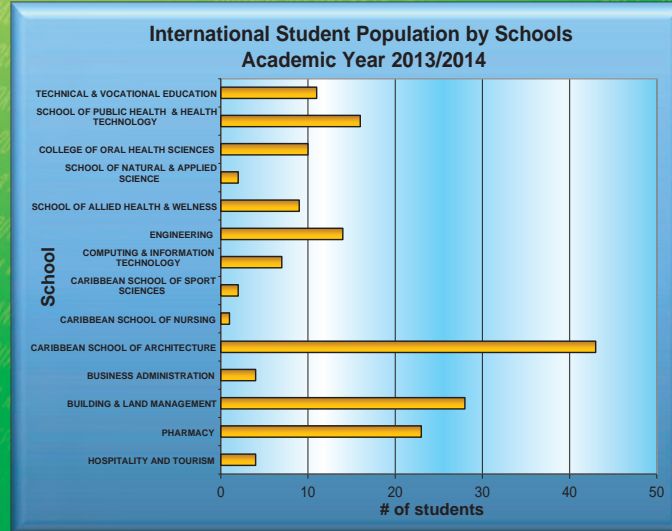
International Student Population by Sponsorship - Academic Year 2013/2014

Government	70
Private	94
PAHO	1
Dominica Agricultural & Industrial Development Bank	1
European Union	8
TOTAL	174



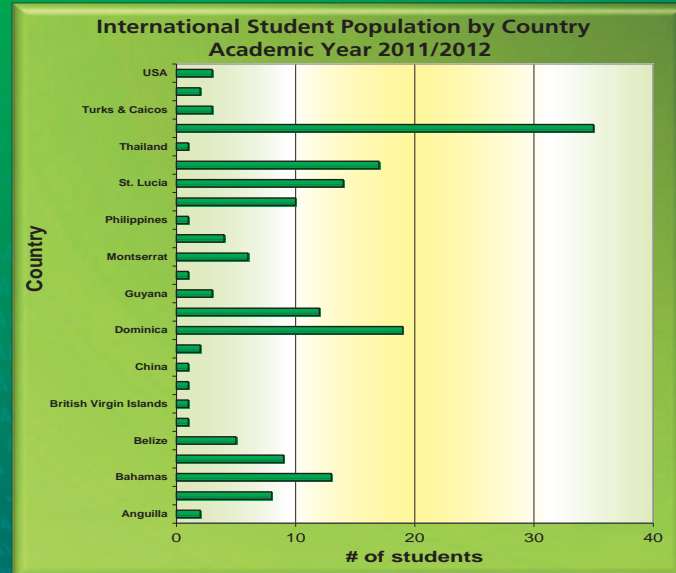
International Student Population by Schools - Academic Year 2013/2014

School	Total
HOSPITALITY AND TOURISM	4
PHARMACY	23
BUILDING & LAND MANAGEMENT	28
BUSINESS ADMINISTRATION	4
CARIBBEAN SCHOOL OF ARCHITECTURE	43
CARIBBEAN SCHOOL OF NURSING	1
CARIBBEAN SCHOOL OF SPORT SCIENCES	2
COMPUTING & INFORMATION TECHNOLOGY	7
ENGINEERING	14
SCHOOL OF ALLIED HEALTH & WELNESS	9
SCHOOL OF NATURAL & APPLIED SCIENCE	2
COLLEGE OF ORAL HEALTH SCIENCES	10
SCHOOL OF PUBLIC HEALTH & HEALTH TECHNOLOGY	16
TECHNICAL & VOCATIONAL EDUCATION	11
TOTAL	174



International Student Population by Country Academic Year 2013/2014

Country	Total
Anguilla	2
Antigua	8
Bahamas	13
Barbados	9
Belize	5
Bermuda	1
British Virgin Islands	1
Cayman Islands	1
China	1
Cuba	2
Dominica	19
Grenada	12
Guyana	3
Haiti	1
Montserrat	6
Nigeria	4
Philippines	1
St. Kitts & Nevis	10
St. Lucia	14
St. Vincent & The Grenadines	17
Thailand	1
Trinidad & Tobago	35
Turks & Caicos	3
United Kingdom	2
USA	3
TOTAL	174

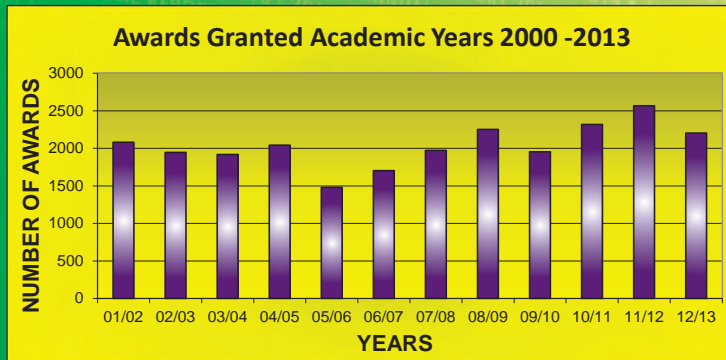




Student Demographics - Academic Year 2013/2014

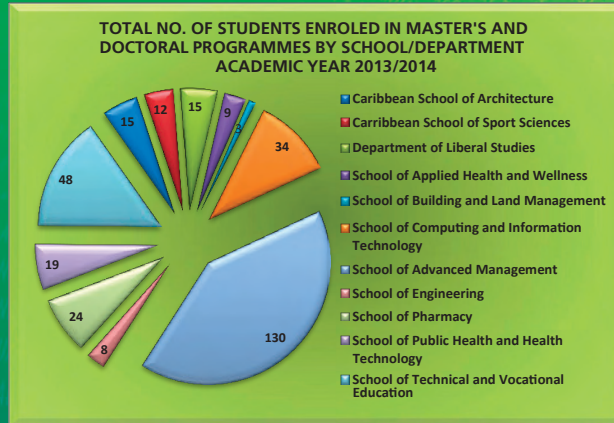
Awards Granted Academic Years 2000 - 2013

Year	# of Awards
01/02	2080
02/03	1945
03/04	1917
04/05	2041
05/06	1479
06/07	1702
07/08	1972
08/09	2251
09/10	1953
10/11	2317
11/12	2566
12/13	2202
TOTAL	24425



Graduate Programmes Enrolment for Academic Year 2013/2014

School/Department	Total
Caribbean School of Architecture	15
Caribbean School of Sport Sciences	12
Department of Liberal Studies	15
School of Applied Health and Wellness	9
School of Building and Land Management	3
School of Computing and Information Technology	34
School of Advanced Management	130
School of Engineering	8
School of Pharmacy	24
School of Public Health and Health Technology	19
School of Technical and Vocational Education	48
TOTAL	317

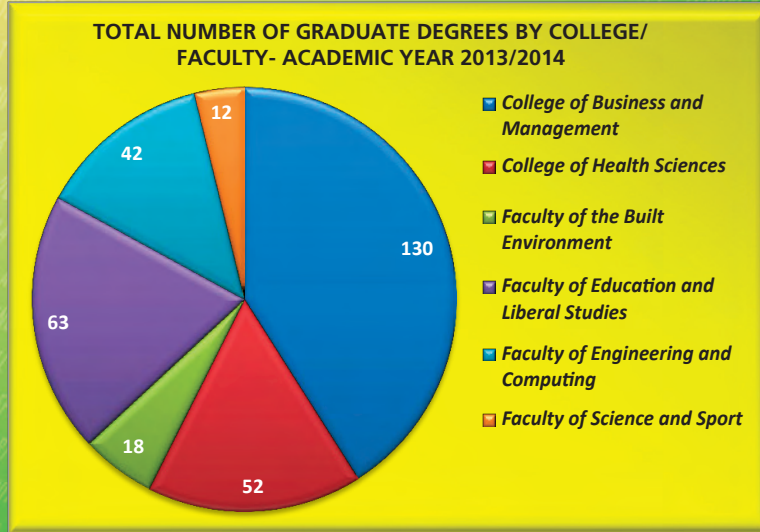




Student Demographics - Academic Year 2013/2014

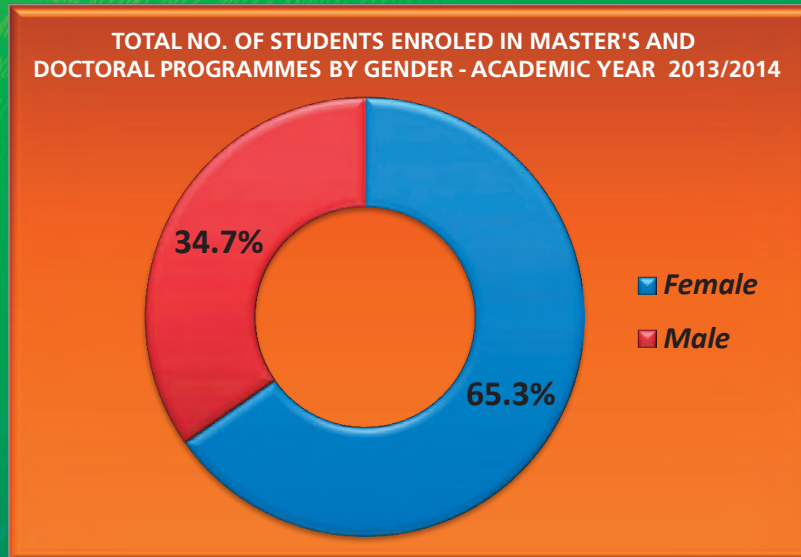
Total Number of Graduate Degrees by College/Faculty Academic Year 2013/2014

COLLEGE/FACULTY	Total
College of Business and Management	130
College of Health Sciences	52
Faculty of The Built Environment	18
Faculty of Education and Liberal Studies	63
Faculty of Engineering and Computing	42
Faculty of Science and Sport	12
TOTAL	317



Total Number of Students Enroled in Master's and Doctoral Programmes by Gender - Academic Year 2013/2014

GENDER	NUMBER
Female	65.3%
Male	34.7%
TOTAL	100%





SCHOOL OF GRADUATE STUDIES RESEARCH AND ENTREPRENEURSHIP (SGSRE)



Prof. Gossett Oliver
Vice President

The University continued to experience steady growth in graduate studies in the number of programmes offered, the number of students enrolled and the number of graduates. Research activity also grew, with more projects and staff members involved, increased external financing, and UTech's participation in capacity-building action for research management. Work continued in the protection of intellectual property rights, including patent registration; as well as action for sustainable energy use and cost savings. In the area of publications, another annual issue of the Journal of Arts Science and Technology was published.

GRADUATE STUDIES

Four new courses of study have been approved:

- PhD in Computer Science
- Post-Graduate Diploma/MSc. in Trauma Studies
- MSc. Nurse Anesthesia
- MSc. in Dental Therapy

Taught Degrees

College/Faculty	Course
College of Business and Management	<ul style="list-style-type: none"> • Doctor of Business Administration • Master of Science in Finance • Master in Business Administration
College of Health Sciences	<ul style="list-style-type: none"> • Master of Science Complementary and Alternate Medicine • Master of Science in Health Administration • Post-Baccalaureate Doctor of Pharmacy
Joint Colleges Of Medicine, Oral Health and Veterinary Sciences	<ul style="list-style-type: none"> • Master in Public Health • Post Diploma Meats and other Foods Inspection

College/Faculty	Course
Faculty of Education and Liberal Studies	<ul style="list-style-type: none"> • Master of Science in Career and Technical Education • Master of Science Workforce Education and Development • Master of Science Educational Leadership and Management • Post-Graduate Diploma in Education
Faculty of Engineering and Computing	<ul style="list-style-type: none"> • Master of Science in Information Systems Management • Post-Graduate Diploma in Information and Communication Technology
Faculty of Science and Sport	<ul style="list-style-type: none"> • Master of Science in Physical Education and Sport
Faculty of The Built Environment	<ul style="list-style-type: none"> • Master of Architecture • Master of Science in Built Environment

Research Degrees

College/Faculty	Course
College of Business and Management	<ul style="list-style-type: none"> • Doctor of Philosophy in Business Administration
College of Health Sciences	<ul style="list-style-type: none"> • Master of Philosophy in Pharmaceutics
Faculty of Education and Liberal Studies	<ul style="list-style-type: none"> • Doctor of Philosophy in Career and Technical Education • Doctor of Philosophy in Educational Leadership and Management
Faculty of Engineering and Computing	<ul style="list-style-type: none"> • Master of Philosophy in Computer Science • Master of Philosophy in Information Systems • Master of Philosophy in Engineering (varying specializations)
Faculty of Science and Sport	<ul style="list-style-type: none"> • Doctor of Philosophy in Chemistry • Master of Philosophy in Chemistry

Number of registered graduate students

College/Faculty	Registered students
College of Business and Management	96
College of Health Sciences	30
Joint Colleges of Medicine, Oral Health and Veterinary Sciences	10
Faculty of Education and Liberal Studies	61
Faculty of Engineering and Computing	45
Faculty of Science and Sport	6
Faculty of The Built Environment	22
TOTAL	270



First Experience-Based PhD Viva Defense

The first viva defense for the University’s innovative Experience-Based PhD programme was held in January 2014. For the Experience-Based PhD, candidates are awarded the degree of Doctor of Philosophy on the basis of their research, publications, ongoing work, professional advances, and expertise.

RESEARCH AND RESEARCH MANAGEMENT

President’s Research Initiative Award, 2013



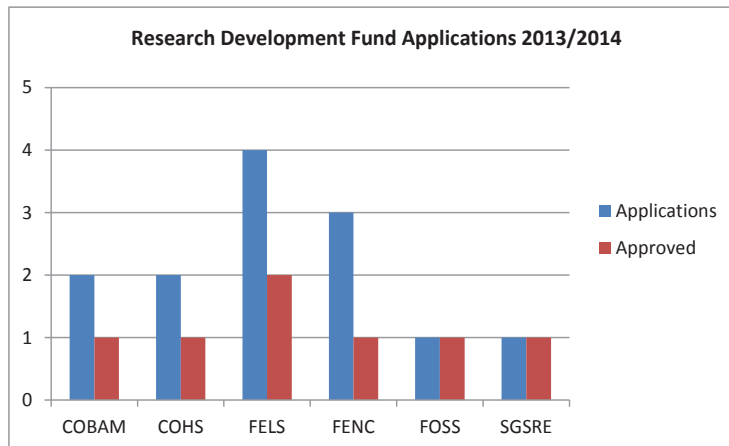
Dr. Kavian Cooke (left), Programme Director, Mechanical Engineering in the Faculty of Engineering and Computing beams with pride as he accepts the President’s Award for Excellence in Research from Prof. the Hon. Errol Morrison, OJ, President, UTech.

“The President’s Research Initiative Award” is the University’s most prestigious award in recognition of individual initiative aimed at promoting research excellence in the University. The 2013 recipient was Dr Kavian Cooke. Dr Cooke’s research interests span the areas of material science, tribology (the science of wear and friction), joining technology, surface coatings, surface engineering technologies, material microstructure and physical metallurgy.

His current research into metal matrix composites is spearheading the new and exciting era of composites applicable to the aerospace and automobile industries.

Research Development Fund (RDF)

The SGSRE manages the Research Development Fund (RDF) which provides Internal funding support for research. Thirteen (13) applications were received, and 7 projects valued at \$5,275,492.50 approved (Figure 1)



Caribbean Research & Innovation Management Association (www.CabRIMA.org)

The SGSRE continued to be the Secretariat for CabRIMA, the professional body for research and innovation management practitioners in the Caribbean region. CabRIMA is a legacy product of the EU/ACP-funded project, “The Improvement of Research and Innovation management capacity in Africa and the Caribbean for the successful stimulation and dissemination of research results” (RIMI4AC). UTech was one of nine partners in the project which ended November 2013.

During AY 2013-14, CabRIMA, in collaboration with the SGSRE, hosted a “Project Mentoring Seminar” for researchers and prospective researchers, and an “Information Session on Horizon 2020,” the new European Union €70 billion research and innovation funding programme, 2014-2020. Dr Frank Heemskerck from Research and Innovation Management Services (RIMS), Belgium, facilitated both events.

The Association’s website, www.cabrima.org, was kept current, and six Issues of its Newsletter produced and circulated to members and other relevant stakeholders

Research Grant Proposals

The University is involved in six (6) European Union funded projects (one as project lead, and five as a partner) valued at €2.7 M with over 30 Higher Education Institutions (HEIs) and other organizations in 14 countries. The areas of research include renewable energy, intellectual property, innovation, entrepreneurship, knowledge transfer, and climate change.



SCHOOL OF GRADUATE STUDIES RESEARCH AND ENTREPRENEURSHIP (SGSRE) (Cont'd)

Research and Technology Day

Research and Technology Day 2014 was successfully staged on March 20, 2014 with university-wide support.

Well-known scientist and 'technopreneur', Dr the Hon. Henry Lowe, OJ, was the guest speaker.



Dr. Henry Lowe talks with high school students who were in attendance at Research and Technology Day.



Pharmacy students from the College of Health Sciences demonstrate the compounding of various dosage forms, to curious high school students.

Research Ethics

The number of applications submitted for ethics review is another indicator of research activity within the university. The University Research Ethics Committee reviewed 165 applications from units within the university and ten applications from individuals external to UTech. Of the total, 150 were approved and 25 not approved.

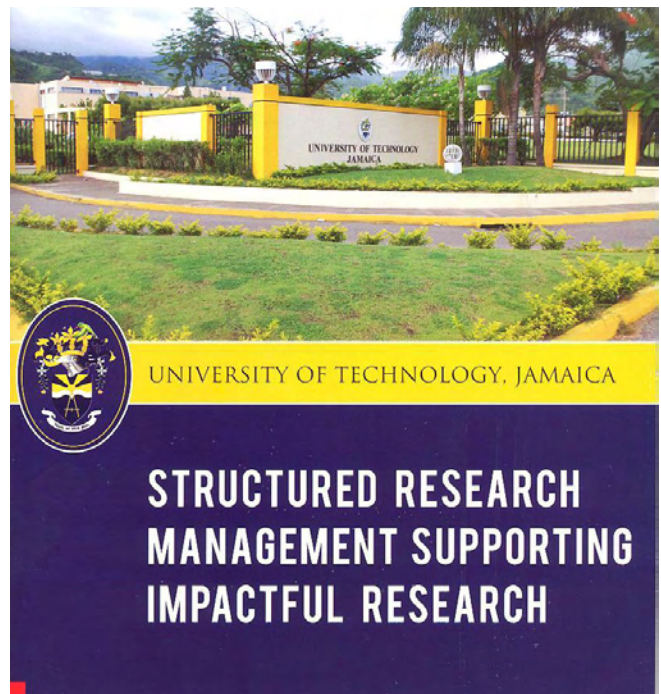
ENTREPRENEURSHIP AND PROJECT MANAGEMENT

Between April 2013 and March 2014 the SGSRE managed 55 projects at various stages from expressions of interest to the oversight of contracted projects.

PUBLICATIONS

The Journal of Arts Science and Technology, Volume 6, was issued in November 2013 with 11 papers by UTech staff and external contributors. The Call for Papers for Volume 7, 2014, was first made in February 2014.

For Research and Technology Day, SGSRE published the booklet, "Structured Research Management Supporting Impactful Research". The publication describes the university's research management ecosystem and presents profiles of the 11 researchers who have been winners of the annual President's Research Initiative Award (PRIA), 2004-2013.



INTELLECTUAL PROPERTY

One international (United States Patent Office) and two local (Jamaica Intellectual Property Office) patent applications were filed during the period under review.



CARIBBEAN SUSTAINABLE ENERGY & INNOVATION INSTITUTE (CSEII)

In light of the need to develop a policy for Sustainable Energy as a national imperative for development, the University has established the Caribbean Sustainable Energy and Innovation Institute (CSEII) with the intention of playing a key role in “education and training in the technology, economics and management of energy and energy conservation systems”.

The Institute is poised to pursue this mandate through:

- Utilization of innovative demonstration projects to promote energy technologies.
- The gathering, processing and dissemination of information on policy, regulation, energy conservation and management.
- Engagement in commercial energy solutions through joint ventures
- Development of a Consultancy base for local and international energy projects
- Research and development activities with emphasis on innovation, cost-effective development and application of specific alternative energy technologies

Japanese Embassy Symposium

The CSEII partnered with the Japanese Embassy to host a smart energy symposium, February 21, 2014, in celebration of 50 years of diplomatic relations between Jamaica and Japan. The Symposium, held at the Alfred Sangster Auditorium was under the theme, “Smart Energy Islands: Resilience and Recovery following the Great East Japan Earthquake.” This included an energy exhibition where 30 companies displayed smart energy products and service offerings. The Symposium was attended by over 200 individuals from academia, students, and the public and private sectors.

CSEII /JPS 100kW Solar Plant at UTech

The UTech/JPS partnership agreement, signed in 2012, to establish a 100 kilowatt solar energy at UTech’s Papine campus became operational in March 2014 with commencement of installation of 480 solar panels.

The project objectives are to lower UTech’s energy bill; demonstrate viability, determine the true costs and operational factors of solar energy projects in Jamaica and serve as an educational tool for new energy technologies.

Energy Monitoring, Community Service Programme, and Internship

The Sustainable Energy Unit has sought to embed energy conservation into the workings of the university. Students may now select UTech’s Energy Monitoring Programme as their community service for their compulsory CSP activity. They receive training in Energy Efficiency and Energy Conservation and serve as Energy Monitors and mentors to other CSP students.

The Institute also provides opportunities for students enrolled in an undergraduate programme to undertake an internship. Students are required to complete 240 work hours to enhance their educational experience through practical work assignments.

JPS Foundation Leader Mentorship Scholarship

The CSEII in collaboration with UTech’s Financial Aid Office and the School of Engineering identified a female Chemical Engineering student with the potential to be a future national leader to be awarded one of the JPS President’s Award for Leadership Development. The successful candidate received full tuition for one academic year and is now engaged in a leader mentorship programme.



Solar panel installed on the front field, UTech’s Papine campus.



College of Business and Management



Dr. Paul Golding
Dean

Joan Duncan School of Entrepreneurship, Ethics and Leadership (JDSEEL)

School of Business Administration (SOBA)

School of Hospitality and Tourism Management (SHTM)

UTech/JIM School of Advanced Management

JOAN DUNCAN SCHOOL OF ENTREPRENEURSHIP, ETHICS AND LEADERSHIP (JDSEEL)

Through the efforts of Dr Roger Smith, Research Coordinator of JDSEEL, the JDSEEL Research Network (JERN) was officially launched. The website is both information-based and interactive. Staff will be able to access useful resources, including; tips, videos, research documents and training materials. It is a good resource for beginner, intermediate-level as well as advanced-level researchers and will be updated regularly. There are detailed documents on how to write research papers, proposals, abstracts, useful tips on presenting at conferences, how to prepare budgets, how to write grants and how to write for top journals.

JDSEEL Public Forum

The annual Joan Duncan School of Entrepreneurship, Ethics and Leadership (JDSEEL) Public Forum was held on Friday, March 27, 2014, in conjunction with the School of Business Administration on the topic: **The Logistics Hub: Exploiting the Entrepreneurial Opportunities.**

Jamaica National Building Society/UTech Part-Time Work Programme

The Jamaica National Building Society has agreed to accommodate a number of UTech students as part-time workers, allowing them to work at times that dovetail with their class and exam timetables. The Part Time Work Programme commenced on Friday, March 7, 2014 with five students from the Joan Duncan School of Entrepreneurship, Ethics and Leadership (JDSEEL) and the School of Business Administration (SOBA).



Mr. Keith Collister, Economist and Director, Special Projects, Sandals Resorts fields a question from the audience at the COBAM public forum to examine entrepreneurial activities to be derived from the Logistics Hub held on Friday, March 28, 2014 at the University of Technology, Jamaica (UTech) Papine campus. Sharing in the forum are Prof. Rosalea Hamilton, Vice President, Community Service and Development, UTech and Dr. Fritz Pinnock, Executive Director, Caribbean Maritime Institute. Other presenters at the forum were, Mr Douglas Webster - Head of Policy, Ministry of Industry Investment & Commerce and Mr Michael Ranglin - CEO, GK Foods.

SCHOOL OF BUSINESS ADMINISTRATION (SOBA)

Highlights

- **Revised Bachelor of Business Administration (BBA) Degree Programme:**

The revised BBA Programme has been implemented and is approaching the completion



College of Business and Management (Cont'd.)

of its first year. Two additional Minors have been incorporated into the programme: Risk Management, and Production and Operations Management. Two foundation modules, Business Etiquette, and Personal Development were introduced into levels one and two of the Programme, with the objective of honing students' soft skills.

- The BSc. in Accounting and the BSc. in Economics Programmes will be eligible for accreditation within the next academic year. These Programmes will graduate their first cohort in November 2014.
- The students' conference for final year BBA students continues to be one of the highlights of the BBA Programme. In March 2014 the students hosted the 18th annual conference at the Jamaica Conference Centre. Students of the Western Campus hosted their second conference at the Montego Bay Convention Centre.
- The Cooperative Education and Internship programme continues to expand. Students from the Economics Programme and Accounting Programme received placements at the Bank of Jamaica, HiLo Food Stores, Sagicor and KPMG.

SCHOOL OF HOSPITALITY AND TOURISM MANAGEMENT (SHTM)

In May 2013 SHTM Lecturers Ms Janeen McNish and Ceretsie Campbell, and Dietetics and Nutrition Lecturer in the College of Health Sciences, Mrs Sheerin Eyre, launched their cassava recipe book, entitled, "Celebrating the Culinary Wonders of Cassava". The book looks at the culinary journey of cassava around the Caribbean islands and includes over 50 recipes and vibrant photographs.

In recent years SHTM has taken advantage of the explosion of interest in the commercial aspect of culinary arts, as evidenced by the number of high profile events featuring 'cuisine'. Active participation in these events provides faculty and students with exposure and direct experience in the competitive world of restaurants and catering, and the business of food.

- At the request of the Culinary Federation of



Mrs. Sheerin Eyre, Dietetics and Nutrition Lecturer in the College of Health Sciences and co-author of the publication, "Celebrating the Wonders of Cassava" presents a copy of the book to His Excellency Luis Martinez Fernandez, Colombia's Ambassador to Jamaica.

Jamaica 24 culinary students were recruited to work alongside Chefs at the Chefs on Show event, held at Jamaica Pegasus Hotel on April 3, 2013.

- On April 8, 2013, also at the request of the Culinary Federation of Jamaica, the School hosted a Taste of the Caribbean practice session in the Lillian's restaurant. The School's own Junior Pastry Chef, J'AI Samuda-Thomas was selected to represent Jamaica in the Taste of the Caribbean competition held in June 2013.
- Three culinary arts students received full scholarships from the Jamaica Observer with two bursaries of \$50,000 also being granted. The grants were made to mark the 15th anniversary of the Table Talk Awards the annual Observer-sponsored culinary competition and festival.
- The School participated in the 61st Denbigh Agricultural Industrial and Food Show on August 4 - 6, 2013.
- Lillian's Restaurant participated for the first time in the annual staging of Restaurant Week, Jamaica from November 8-16, 2013 having been placed in the Tasty category of the Restaurant



College of Business and Management (Cont'd.)



Miss Yvonne Stewar (left), part-time Lecturer in the Bakery in the School of Hospitality and Tourism Management, UTech demonstrates the use of cassava in cake decorating during an interview with Mrs. Michelle Beckford, Corporate Communications Manager, UTech.

Week’s participating restaurants. Participation in this event afforded an opportunity to raise the visibility of the restaurant and to provide additional experiential training for the students. In addition to features in the print media, the School had the opportunity to highlight the school’s inaugural participation through interviews on two radio programmes.

- The Staff and Students majoring in Culinary Arts participated in the second staging of the Taste of Jamaica Culinary Competition 2013. They won a total of twenty-three medals (5 gold, 13 silver and 5 bronze) five more than the previous year, and three trophies.
- The School participated in Rainforest Seafood Festival on March 5, 2014 at Catherine Hall Entertainment Centre, and
- The Culinary Federation of Jamaica’s Chefs on Show at the Jamaica Pegasus on Wednesday, April 9, 2014.

Special Events

The Spanish Embassy and members of the Chaine de Rotisseurs have established The Spanish-Jamaica Foundation through which the School has been the recipient of scholarship funding awarded to 3rd year students pursuing a BSc. Degree in Culinary Arts and/or Food & Beverage Management from the School of Hospitality and Tourism Management beginning academic year 2013/14. The Spanish-Jamaica Foundation Gastronomy Inaugural Award Ceremony was held on Friday, April 19, 2013 at Lillian’s Restaurant with the Ambassador of Spain Celsa Nuño and members of the Chaine de Rotisseurs present as special guests. Four students received awards.

Final year students in the School of Hospitality and Tourism Management showcased an outstanding array of research areas highlighting the theme, “Innovation, Impact and Engagement: In Hospitality and Tourism Management”, at the annual SHTM Research and Exhibition Day held on Thursday, March 27, 2014. keynote speaker was Hon. Rev. Ronald Thwaites, MP, Minister of Education.

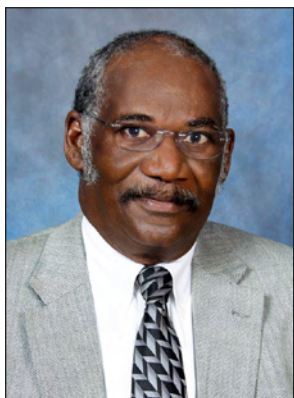


Final year students show off their research projects at the annual SHTM Day.



College of Business and Management (Cont'd.)

UTech/JIM School of Advanced Management



Dr. Neville Swaby
Head/Vice-Dean, COBAM



Graduate students make their research presentation.

Graduate Courses of Study

Master of Business Administration (MBA) and Master of Science in Finance (MSF)

The sixth Annual Presentation of Consultancy Projects by the students pursuing the MBA and MSF course of study was held at Jewels Runaway Bay, St Ann. A panel of local and foreign assessors from industry and academia assessed the presentations. Ninety (90) students participated in this activity.

Graduation 2013

Seventy-eight (78) MBA and fourteen (14) MSF students were presented for graduation in November 2013.



Keisha Baldie is all smiles as she receives the Master of Business Administration in Finance from Chancellor Seaga at the Graduation ceremony held at the Montego Bay Convention Centre on Saturday, November 9.



COLLEGE OF HEALTH SCIENCES



Caribbean School of Nursing
School of Allied Health and Wellness
School of Pharmacy

Associate Professor Ellen Campbell-Grizzle

Dean

The College of Health Sciences introduced new courses of study, revived failing programmes through the use of technology, expanded its student base and raised its profile within and outside of the University community. In collaboration with various units and departments across UTech, COHS has continued to develop, implement and demonstrate best practices in the areas of course accreditation and the development of online courses of study.

In 2013 the Ministries of Education and Health provided the necessary cooperation and support to complete the transfer of the nursing training programmes to the Caribbean School of Nursing (CSON). UTech fully assumed the legacy of the Kingston School of Nursing, bringing to fruition an 18-year-old recommendation agreed to by the Government of Jamaica.

Online Post Diploma Pharmacy degree

In the 2013/2014 Academic Year, the College introduced the University's first online course of study, Online Post Diploma in Pharmacy to Barbados, Anguilla, Belize and St. Lucia.

New Courses of Study

Seven (7) new courses of study were approved to be offered for the 2014/2015 Academic year; namely the Master of Science in Nurse Anaesthetist, the Master of Science in Corporate Wellness Facilitation, the Master of Science in Public Health Nutrition, the Post Graduate Diploma/Master of Science in Trauma Studies, the Post RN Bachelor of Science in Critical Care Nursing, the Bachelor of Science in Pharmaceutical Technology and the Certificate in Pharmacy Technician (Part-Time).



Student nurses perform blood pressure checks at Research and Technology Day, 2014.

Revision of Syllabi

Syllabi for several courses of study were submitted for review and approval by the Curriculum Committee. The following courses of study were submitted to the Curriculum Committee for approval to be offered as University Electives:

- Overview of Complementary medicine
- The Natural Path: The Naturopathic Approach to Holistic Personal Care

Purposive expansion

The College secured rental of additional laboratory and teaching space at 2B Braemar Avenue. It is intended that



COLLEGE OF HEALTH SCIENCES (Cont'd.)

the facility at Braemar Avenue will house the College's graduate courses of study, specifically those of the Caribbean School of Nursing.

Alumni Generosity

The UTech Pharmacy Alumni (UPA) continued to be a major and reliable source of support for the School of Pharmacy. Both the UPA and the Caribbean Institute of Pharmacy Policy Practice (CIPPPAR) continued to provide assistance for needy pharmacy students. The College's greening project which was introduced in May 2013 was partially funded by donations from this group.

The generous donation of J\$1.8 million from Dr Marilyn Padilla, a member of the UTech Pharmacy Alumni, resulted in the refurbishing and enhancement of a lecture room, 3B 20. This room has now been renamed, the "M. Morrison Padilla Lecture Theatre", in honour of Dr Padilla.

Special Projects

- Collaboration with the Organization of American States

- COHS is executing a drug demand reduction project funded by the Organization of American States/ Inter-American Drug Abuse Control Commission (OAS/CICAD).
- Disabilities Studies
 - The Child and Adolescent Development (ChAD) Course of study initiated a Minor in Disabilities Study in January 2014. A unique element of this course is that it is taught by persons with disabilities. Students are required to spend time at the Shelly-Ann Fraser Assessment Centre where they observe trained care givers. Additionally, they are permitted to administer supervised care.

COHS PIONEERS

The November 2013 Graduation exercise saw the first cohort of Pharmacists to receive a Doctor of Pharmacy degree from an institution in Jamaica and the wider Caribbean. These graduates, Drs. Michelle Douglas-Shaw, Norman Dunn, Pheyona Oates, Michelle Young-Brown and Cleston Headley made history for Pharmacy education in the Caribbean.



Dr. Cleston Headley (centre) UTech's first doctoral graduate from the institution's western campus and Pharmacist, Cornwall Regional Hospital poses with Chancellor, the Most Hon. Edward Seaga, ON, PC (left) and President, Prof. the Hon. Errol Morrison, OJ following the graduation ceremony.



JOINT COLLEGES OF MEDICINE, ORAL HEALTH AND VETERINARY SCIENCES (Cont'd.)



Dr. Irving McKenzie
Dean

College of Medicine
College of Oral Health Sciences
College of Veterinary Sciences

The establishment of the Joint Colleges of Medicine Oral Health and Veterinary Sciences was approved by the University Council in December 2011. The Colleges of Medicine and Veterinary Sciences are in the developmental stages. Within the College of Medicine is the School of Public Health and Health Technology, located at 21 Slipe Pen Road, Kingston 5.

COLLEGE OF ORAL HEALTH SCIENCES

The College of Oral Health Sciences offers BSc programmes in Dental Laboratory Technology, Dental Nursing Therapy and Dental Hygiene, Diploma - Dental Assistant (Expanded Function) and the Doctor of Medical Dentistry (DMD).

The College continues to make significant strides in the development of Dentistry locally and in the region. Up-to-the-minute dental practice, ongoing research and dissemination, and active community engagement are the hallmarks of the College. In addition to their regular course work, students benefit from lectures and interaction with a wide array of Adjunct Professors who are international experts in their field, and through frequent community outreach sessions they have the opportunity to gain extensive practical experience.

To support its work the College has established:

- The Rosalie Warpeha–Caribbean Institute for Strategic Planning and Research in Oral Health, and
- A Biomolecular Research laboratory for conducting

research in Oral Health

- A student's forum for the presentation of case studies and research findings
- "Comité Dentaire Communautaire", otherwise called the CDC which is the College's community outreach arm.

NEW COURSE OF STUDY

The new Master of Science in Dental Therapy Course of Study will commence in August 2014.

Special Certification/Accreditation

- The College has been approved for graduate training in Dental Implantology by the International Congress of Oral Implantologists (ICOI) and The American Academy of Implant Prosthodontics (AAIP)
- Approved by the Dental Council for the Training of Dental Surgeons and Dental Auxiliaries.

Infrastructural Development and Facilities upgrading

Construction and equipping of two gazebos with benches, electrical outlets and Wi-Fi service increased the College's very limited student facilities. Infrastructural upgrading included the replacement of corroded air and waterlines, the installation of an electronic security system and smoke and fire detectors.

Local and International Linkages and Collaborations: International Student Exchange



JOINT COLLEGES OF MEDICINE, ORAL HEALTH AND VETERINARY SCIENCES (Cont'd.)

- The Jamaica Association of Dental Surgeon Students hosted the International Dental Surgeon Students Association in Jamaica in August 2013. There were students from some thirty countries visiting Jamaica.
- UTech Dental Surgeon Students also hosted the International Volunteer Project
- Five Dental Surgeons students visited from Guy's, King's and St. Thomas' Dental Institute, London for three weeks.
- Two Dental Students from Germany spent one month at the College.
- One student from Brazil and a dental intern from Mexico
- Dental Surgeon and Dental Hygiene Students rotated with faculty and students from the Dental Surgeon and Dental University of the Pacific, University of Washington, Temple University, Nova South Eastern University Dental School and the University of Florida Schools for outreaches and further clinic exposure.
- UTech Adjunct Professor Sheldon Winkler from the American Academy of Implant Prosthodontics presented lectures on complete dentures
- Professor Carl Misch from the International Congress of Oral Implantologists presented lectures on implant dentistry as well as opening the Carl Misch Dental Implant Center at the College
- UTech Adjunct Professor Ronald Guttu, Specialist in Oral Medicine, Oral Pathology and Oral & Maxillofacial Surgery and Prof C. R. Anderegg, Specialist in Periodontology.
- Professor Ken Judy, From the International Congress of Oral Implantologists
- UTech Adjunct Professor Gary Glassman
- UTech Adjunct Professor Leendert Boksman



UTech Dental students in training.

Visiting Professors:

- UTech Adjunct Professor, Professor Van Haywood from Georgia Dental School : Leading Expert in the world on tooth whitening presented lectures on tooth whitening



Dr. Gary Glassman, DDS, (right) Adjunct Professor of Dentistry at the College of Oral Health Sciences, UTech makes a special presentation of the cookbook, "Not Another Rubber Chicken Dinner" to Dr. Iring McKenzie, Dean. Dr. Glassman delivers lectures and clinical sessions in Endodontics to second year Dentistry students and has been instrumental in assisting the University in acquiring equipment and supplies for the College.

Professional/Consultancy Services

- Collaboration with the Pan American Health Organization to establish a "Center of Excellence" in



JOINT COLLEGES OF MEDICINE, ORAL HEALTH AND VETERINARY SCIENCES (Cont'd.)

Oral Health.

- Collaboration with the University of Dalhousie, Ministry of Health, and the Pan American Health Organization in conducting Migration Studies for Dental Auxiliaries in Jamaica.
- Prof. the Hon. Dr Errol Morrison OJ. F.I.C.D–Honorary Fellowship in the College of Dentistry
- The Minister of Health, Hon Dr Fenton Ferguson OD, Fellow International College Dentists F.I.C.D)



Dr. Irving McKenzie poses with a section of the group of Doctor of Medical Dentistry Students who are entering year three of their five year course of study and the Dental Hygiene students who are entering year two of their studies, following the presentation of their white coats sponsored by Listerine and Colgate. The White Coat Ceremony was held on Thursday, October 14, 2013 at the Alfred Sangster auditorium, UTech Papine campus.

ACHIEVEMENTS

Associate Professor Winston Grey and Adjunct Professor Irving F. McKenzie achieved the level of Diplomate in the International Congress of Oral Implantologist, the highest level of achievement in Dental Implantology.

AWARDS

Awards of Fellowship in the International College of Dentists, the most prestigious Honour Society for Dentistry, were made on January 5, 2014 to the following persons:

- Adjunct Professor Irving F. McKenzie, FADI, F.I.C.D
- Associate Professor Doryck Boyd, F.I.C.D
- Associate Professor Winston Grey, F.I.C.D
- Senior lecturer and former Chief Dental Officer of Grenada - Dr Crofton Stroud, F.I.C.D

DONATIONS

The College has been the recipient of significant benevolence, by way of endowment/contributions from individual dental surgeons, dental supply companies



JOINT COLLEGES OF MEDICINE, ORAL HEALTH AND VETERINARY SCIENCES (Cont'd.)

and organizations, and the voluntary service of eminent international oral health specialists.

SCHOOL OF PUBLIC HEALTH AND HEALTH TECHNOLOGY (SPHHT)

Administrative activities during the academic year revolved around the accomplishment of the set operational goals and objectives of the fledgling School of Public Health and Health Technology (SPHHT) in order to consolidate its position as an integral part of the Joint Colleges of Medicine, Oral Health and Veterinary Sciences.

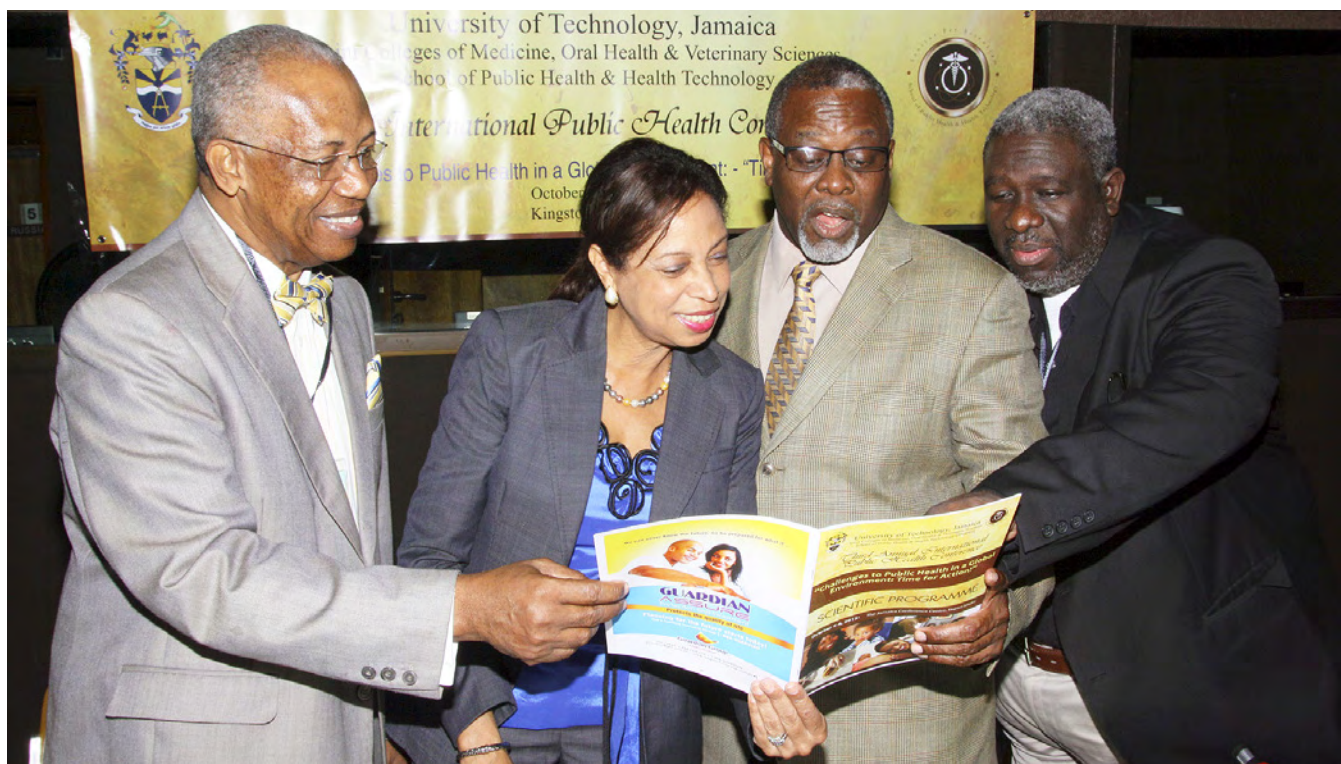
Academic Programmes

Significant effort was spent in identifying ways to enhance delivery and revision of existing courses of study to align them to current Public Health training and practice. Reaccreditation of both the Environmental Health and Public Health Nursing Courses was also a

priority item on the academic agenda.

3rd International Public Health Conference

The School held its 3rd Annual International Public Health Conference, October 4–6, 2013, at the Jamaica Conference Centre, Kingston, under the theme: “Challenges to Public Health in a Global Environment: Time for Action!”. More than 200 participants attended. Presenters were drawn from a wide cross-section of local and international speakers, from the medical public health and other allied health professions. Among the speakers were: **Dr Godfrey Xuereb**, WHO, Geneva, **Dr Sonia Copeland**, Director- Disease Prevention and Control, Ministry of Health, Jamaica, **Dr Parris Lyew Ayee**, Director of the Mona Geo Informatics Institute, UWI, Jamaica, and Mrs **Gunilla Bergh**, Sustainable Development Advisor, PAHO/WHO.



Examining something of interest in the programme at the Opening Ceremony for the 3rd Annual International Public Health Conference hosted by the School of Public Health and Health Technology (SPHHT), University of Technology, Jamaica (UTech), from left are Prof. Winston Davidson, Head, SPHHT, Hon. Sharon Ffolkes-Abrahams, Minister of State in the Ministry of Industry, Investment and Commerce, Dr. Kofi Nkrumah-Young, Vice President, Planning and Operations, UTech and Dr. Irving McKenzie, Interim Dean, Joint Colleges of Medicine, Oral Health and Veterinary Sciences, UTech. The 3-day conference was held at the Jamaica Conference Centre in downtown, Kingston on Friday, October 4, 2013.



FACULTY OF EDUCATION & LIBERAL STUDIES



Dr. Rohan Lewis
Dean

School of Technical and Vocational Education (SOTAVE)
School of Humanities & Social Sciences (SHSS)

The reputation of the Faculty of Education and Liberal Studies rests on promoting academic excellence to provide the highest quality teachers and trainers in technical specializations in critical areas of need.

SCHOOL OF TECHNICAL AND VOCATIONAL EDUCATION (SOTAVE)

Meetings were held at the senior management level of the School to discuss the implications of the budgetary challenges being faced by the university. Focus was placed on the severely undersubscribed modules and courses of study in the School. Following meetings by each unit in SOTAVE, a ten-member team was constituted to lead the re-visioning of the School. The School will conduct a market analysis to determine the real needs in the country at this time and to plan SOTAVE's role accordingly.

THIRD STREAM INCOME **Short Courses from Industrial Technology**

Two short courses, Small Appliance Repairs and Introduction to Blueprint Reading, have been advertised for delivery in Academic Year 2013/14, Semester 1. The response has been overwhelming and the leaders in the unit are in discussion with the Academy to offer the courses on the western campus in the future. They will be delivered over a total of 10 weeks with successful candidates being certified by the University.

LINKAGES **Industrial Technology Consultancy – e-Ljam/UTech Project (E-Learning Jamaica/UTech)**

Teams from the Faculty of Education and Liberal Studies and the School of Graduate Studies Research and Entrepreneurship have developed Teacher Instructional Materials (TIMs) and Students Instructional Materials (SIMs) for Building Technology, Woods and Construction under the E-Learning Jamaica consultancy programme.

Visit from St. Kitts

In April 2013 Mr Andrew Abrahams, the Dean of Clarence Fitzroy Bryant College in St. Kitts toured the School's industrial technology facilities and learned about the programme. The focus of the tour was on the labs, areas for programme collaboration and also opportunities to train current staff.

Discussions are already advanced regarding the delivery of technical education programmes to teachers in Antigua and St. Kitts who have associate degrees and need to be upgraded to bachelor's degrees.

Postgraduate Diploma in Education (PDE) for Montserrat

President Morrison signed a contract for UTech/FELS to offer the PDE programme to in-service teachers in Montserrat. The programme which will be offered by distance learning modalities is scheduled to begin in March, 2014.

STUDENT HIGHLIGHTS 2013-2014

During the year students of the Apparel Design Production and Management Programme (ADP&M) under the direction of Miss Jill Becker, Lecturer, who participated in a number of opportunities to showcase their work, build visibility for the programme and provide valuable hands on experience for students. Among them were:



FACULTY OF EDUCATION & LIBERAL STUDIES (Cont'd.)

- UTech's **Fashion Show and Concert in the Park** at Papine on April 10, 2013.
- the Annual Literary Festival and **Cultural Showcase** put on by the Centre for the Arts and the Calvin McKain Library on April 11, 2013
- the fashion show hosted by the **Edna Manley College for the Visual and Performing Arts**
- the **Saint International Avant Garde Designer of the Year competition**, held at the Courtleigh Auditorium on Sunday March 16, 2014

SPECIAL EVENTS

Family and Consumer Studies (FCS) Conference 2013

Lecturers in FCS hosted the 10th FCS conference on October 17 and 18, 2013 in collaboration with the Jamaican Home Economics Association. The conference was held at the Cardiff Hotel and Spa in Runaway Bay, St. Ann under the theme "Relationship Management Amidst Shifting Value Systems".

FCS Week 2014

The Family and Consumer Studies programme launched its first FCS WEEK which was held from March 16-21. The week's events included lectures and visits to schools to promote the programme and ended with a special event to coincide with World Home Economics Day, March 21, 2014.

SCHOOL OF HUMANITIES & SOCIAL SCIENCES

Official Launch of the SHSS and the Inaugural Hilory Pamella Kelly Lecture

The School of Humanities and Social Sciences, formerly the Department of Liberal Studies, held its official launch on January 23, 2014. The event was marked by the hosting of the inaugural **H. Pamella Kelly Lecture**. Professor Beverley Bryan of UWI, Mona, delivered the lecture titled, "Language in the Village." Professor Bryan is widely recognized as an expert in Language Education, particularly as it relates to Creole-speaking children.

The Hilory Pamela Kelly Distinguished lecture is expected to be an annual event hosted by the SHSS through the Language and Technology Research Centre. The lecture commemorates the service given by Mrs H. Pamella Kelly to English language teaching and learning at UTech.



Dr. Clover Jones McKenzie (left), Lecturer, English Language & Linguistics Division, School of Humanities and Social Sciences (SHSS), UTech presents Mrs. Hilory Pamela Kelly with a copy of the Citation which was read in her honour at the ceremony for the launch of the School and the inaugural Hilory Pamela Kelly Distinguished Lecture held on Thursday, January 23, 2014 at the UTech Papine campus.

Language Policy

The Head of School and the Heads of two divisions - the English Language and Linguistics Division and the Foreign Language Division, met on March 19, 2014 to begin formulating a proposal for a UTech Language Policy for students. The policy seeks to address the pressing need for university graduates to have mastery of English, and competence in a foreign language. In order for graduates to be functional in an increasingly scientific and technical work environment, language competence - English and a Foreign Language—is a requirement. Concerns continue to be raised internally and externally about students' lack of competence in English Language despite successful completion of CSEC English A and the university's two academic writing modules.

The proposed changes will be driven by the findings of the ELPT Research Project, the review of Academic Writing 1 and 2 currently underway and the findings of research into student performance in language modules being carried out by SHSS staff.

BA CAT Audit

The Audit for the Bachelor of Communication and Arts Technology course of study was conducted during



FACULTY OF EDUCATION & LIBERAL STUDIES (Cont'd.)

January 27 to February 7, 2014. This is the second academic quality audit for the BA in Communication Arts and Technology. All procedures towards the completion of the process of accreditation of this course of study are being followed systematically.

FOREIGN LANGUAGES DIVISION

DELE (Diploma in Spanish as a Foreign Language)

UTech is now a part of the wide network of DELE Examination Centres across the world. An extensive promotional programme was mounted to popularise the centre.

CSEC Spanish Oral Workshop

The Division initiated a workshop for students sitting CSEC Spanish which was facilitated by the Language Technology and Research Centre and was intended to help prepare students for Spanish oral examinations. Students from high schools all over Kingston are targeted in what the Division proposes to be an annual initiative.

International Day

In collaboration with the Family and Consumer Studies section in SOTAVE, the Foreign Languages Division hosted another successful International Day cultural event on the main campus on Thursday, November 21, 2013. Students from various educational institutions, representatives from embassies and various cultural and social organizations gathered to participate in the annual event that showcases the Faculty's work in culture, language teaching and learning and culinary arts and sciences.

GRADUATE STUDIES & RESEARCH

NEW PROGRAMME DEVELOPMENT

Workforce Training & Education: This programme, formerly the Workforce Education & Development, was revised and approved for delivery in the Academic Year 2013-2014.



BA CAT students at work.



FACULTY OF ENGINEERING & COMPUTING



Prof. Nilza Smith
Dean

School of Engineering

School of Computing and Information Technology (SCIT)

The Faculty of Engineering & Computing continued its tradition of high performance during its 55th anniversary year (2013/14) marked by special celebrations which included a Student Awards Ceremony; School of Engineering Day; School of Computing and Information Technology Day; opening of the Brian Silvera Air-conditioning and Refrigeration Lab.

SCHOOL OF ENGINEERING (SOE)

NEW ACADEMIC PROGRAMMES

M.Sc. Engineering

The Master of Science in Engineering Degree programme started January 31, 2014 with fourteen students and an additional eight completing the Foundation in Engineering modules.

Chemical, Electrical and Mechanical

The process of reaccreditation of the Chemical, Electrical and Mechanical programmes was set in train in October 2013 with a visit by the University Council of Jamaica (UCJ) to the School of Engineering.

Civil Engineering

The Civil Engineering programme presented its first cohort of 13 graduates at the University's 2013 Graduation Ceremony.

SCHOOL OF COMPUTING & INFORMATION TECHNOLOGY (SCIT)

MSc in Information Systems Management

The first cohort of 13 graduates of the Master's in Information Systems Management, thirteen students, graduated in November 2013.

BSc in Computing and Information Technology (BSCIT)

The BSCIT degree is officially discontinued. Eight (8) students who were allowed to complete outstanding modules in the summer of Academic Year 2012/13 graduated in November 2013.

Faculty Graduate Studies Research & Entrepreneurship (FGSRE)

The Research based PhD programme in the Faculty of Engineering & Computing was approved by the Academic Board in October 2013. The Faculty now has eight registered PhD candidates in the following specializations: Computer Science, Electrical Engineering, Mechanical Engineering and Information Systems

Special Awards

- **Dr Lisa Bramwell** was awarded her PhD from the Clarkson University, New York, USA, 2013
- **Mr Farley Artwell**, Electrical Engineering student was awarded the Prime Minister's Youth Award for International Achievement for 2013.
- The President's Award for Excellence in Research was presented to **Dr Kavian Cooke**, Programme Director, Mechanical Engineering in the Faculty of Engineering and Computing.



FACULTY OF ENGINEERING & COMPUTING (Cont'd.)

Cooperation Agreement with Latin American Energy Organization (OLADE)/Austrian Development Cooperation/School of Engineering (SoE)

On June 3, 2013, OLADE and the School of Engineering signed an agreement which would involve the training and execution of a pilot project in Jamaica under the Latin American and the Caribbean Energy Efficiency Programme (PALCEE). Two projects were implemented in Jamaica, an Energy Audit Training Programme and an Efficiency Lighting Project

The entire project was sponsored by OLADE and the Austrian Development Cooperation.

JIE - Bridge Competition

Two groups of engineering students entered and competed in a Bridge Building Competition hosted by the Jamaica Institute of Engineering (JIE), in September 2013. The teams were tasked to build a model bridge with macaroni and crazy glue. UTech placed first and third. The aim of the competition was to encourage exploratory learning.

Digital Jam 3.0 Conference 2014

Students of the School of Computing & Information Technology (SCIT) entered the WorldBank, Digital Jam 3.0, Regional Apps Competition/Gaming held on March 1-2 at the Mona campus of the University of the West Indies. They won two of the three prizes. Both teams will be assisted in the further development of their ideas.

Linkages

The PROCEED-CARIBBEAN Project

The Faculty is a partner in the *Promotion of Capacity and Energy Education Development in the Caribbean Region (PROCEED-CARIBBEAN)*. The Lead partner is the University of Turku, Finland Futures Research Centre (FFRC). Other partners include the University of the West Indies, Cave Hill and Mona campuses and the University of Oriente, Cuba.

The main activities of this 42-month project include training of trainers on energy modeling, energy access, financial and administrative management and curriculum development through interactive workshops and trainings, networking and cooperation amongst partner institutions and relevant stakeholders. Specific activities include workshops and training events in each Caribbean partner institution and short/medium term study visits by Caribbean staff/PhD students to University of Turku and Tampere University of Technology in Finland.

Regis University/School of Computing and Information Technology (SCIT) Graduate Programme

Messrs Julian Jarrett and Kedrian James, Assistant Lecturers in the School, were the first graduates from the collaborative Masters Degree programme between UTech/SCIT and Regis University, having successfully completed their MSc in Software Engineering from Regis University.

Brown International Advanced Research Institute (BIARI)

Dr David Muir, Lecturer in Control Systems, School of Engineering in the Faculty of Engineering and Computing, participated in the Brown International Advanced Research Institute (BIARI) held at Providence Rhode Island, USA from June 8-22, 2013. BIARI has built a scholarly network of more than 500 alumni in more than 80 countries, providing them with ongoing support for collaborative research and professional development.

Commonwealth Natural Fibers Partnership Meeting

Professor Nilza Jústiz-Smith, Dean, of FENC represented the Caribbean region on the Commonwealth Natural Fibers Forum in London, England, June 25-27, 2013. Major outcome from the meeting was the establishment of a centre of excellence in natural fibers for the Caribbean region in collaboration with Jamaica Business Development Corporation (JBDC).

Collaboration with the University of Miami

A memorandum of understanding between UTech/SCIT and University of Miami paved the way for further development of cooperative academic agreements in ICT. Beginning in summer of 2014, one faculty member at the School of Computing and Information Technology will join the PhD programme in Computer Science at the University of Miami through a research fellowship provided by the University's Graduate School.

Renaming of Refrigeration & Air conditioning Lab in Honour of Mr Brian Silvera

On March 21, 2014 the Refrigeration & Air Conditioning Lab was renamed in honour of Mr Brian Silvera in recognition of his 47 years of distinguished service to UTech and the School of Engineering in particular, and for his exceptional contribution to the development of laboratories with special attention to "the students' best interest".



FACULTY OF ENGINEERING & COMPUTING (Cont'd.)



The affixing of signatures to a Memorandum of Understanding formalizes collaborative agreements between UTech and the University of Miami. Seated from left are Prof. Gossett Oliver, Deputy President (Acting), UTech, Prof. the Hon. Errol Morrison, OJ, President, UTech, Prof. Brian Blake, University of Miami Graduate School, Mr. Arnett Campbell, Head, School of Computing and Information Technology (SCIT), UTech. Witnessing the occasion are Dr. Claire Sutherland, Senior Director, International and Institutional Relations and Dr. Sean Thorpe, Lecturer, SCIT, UTech.



Dr. Vernon Buchanan, Principal Lecturer, School of Engineering (right) and Mrs. Charmaine DeLisser, former Dean, Faculty of Engineering and Computing share in the presentation of the citation to Mr. Brian Silvera, former Lecturer.



FACULTY OF LAW



Mr. Alfred McPherson
Dean

The Faculty of Law will present its fourth cohort of graduates in November 2014 and is on a steady course towards attaining accreditation status for the Bachelor of Laws (LLB) course of study. The first cohort of graduates from the Faculty graduated with the Legal Education Certificate from the Norman Manley Law School on Saturday, September 18, 2013. Many have already been called to the Bar and admitted to practice as Attorneys-at-Law at the public or private bar.

STUDENTS' EVENTS

First year students of the Faculty of Law, Western Campus, presented the Annual Undergraduate Law and Society Conference for the fifth consecutive year. The presentation was held on November 19, 2013 at the Montego Bay Civic Centre under the theme: "Are Jamaicans Ready To Sacrifice To Achieve The 2030 Goals?" Guest speaker was the Honourable Dr. Horace Chang, Member of Parliament for the constituency of North-West St. James.

Jessup Competition

Students at the Faculty of Law at the Western Campus entered the Jessup International Law Moot Competition. The UTech team was defeated by Norman Manley Law School in the Qualifying Round in Jamaica for entry into this competition on March 1, 2014

Legal Advice Centre

The Legal Advice Centre, under the guidance of Prof. Kent Pantry, continues to provide advice to members of the community, including staff of the University. The services are provided free of cost.



Students of the Year: Mr. Alfred McPherson (left), Acting Dean, Faculty of Law presents outstanding performer, Arthur Compass with the Student of the Year Award (Papine Campus). Arthur was lauded for his academic performance and for community service. In the 2012/13 academic year he attained a Grade Point Average (GPA) of 3.57 and currently serves as a Faculty of Law student executive in the capacity of financial advisor.

At right, Prof. Geraldene Hodelin, OD presents Student of the Year (Montego Bay Campus), Shane Walker with his award. Shane was praised for his outstanding academic performance, his involvement in community service and extra curricular activities. Of special note was his participation in the prestigious Phillip Jessup International Law Moot Court - the largest and most prestigious moot competition in the world.



FACULTY OF SCIENCE AND SPORT



Prof. Colin Gyles
Dean

School of Natural and Applied Sciences (SONAS)

School of Mathematics and Statistics (SOMAS)

Caribbean School of Sport Sciences (CSOSS)

Centre for Science-Based Research, Entrepreneurship and Continuing Studies (CSRECS)

The Faculty of Science and Sport (FOSS) offers courses of study at both undergraduate and graduate levels and delivers science, mathematics and sport elective modules for all courses of study across the University.

SCHOOL OF NATURAL AND APPLIED SCIENCES

The Bachelor of Science in Integrated Health Science came on stream in the Academic Year 2013-14. The course of study is primarily aimed at local, Caribbean and international students who aspire to pursue the Doctor of Medicine, Doctor of Dentistry and Doctor of Veterinary Medicine degree, but who do not have prerequisite university preparation in science education. It is an accelerated seven-semester programme designed to include summers. Several new modules have been designed to incorporate the medical aspect of the programme.

SCHOOL OF MATHEMATICS AND STATISTICS

Ten students graduated in November 2013 with the **Master of Science Physical Education and Sport**. Five students graduated in November 2013 with the **Master of Science Mathematics Teaching**. This course is being done in collaboration with Church Teacher's College based in Mandeville.

RESEARCH

Research Projects

Following the filing of the patent with the Jamaica Intellectual Property Office (JIPO) on December 19, 2012,

a patent application was filed with the United States Patents Patent and Trademark Office (USPTO), with the assistance of the School of Graduate Studies, Research and Entrepreneurship (SGSRE). The application, filed on July 2, 2013, is the first patent application to be filed with the US Patents Office from UTech.

Application type: New U.S. Non-Provisional Patent Application

U.S. Patent Application No.: 13/933,669

Inventor: Maurice MCGLASHAN-POWELL

Assignee: University of Technology, Jamaica AND Maurice MCGLASHAN-POWELL

Title: MAGNETO-OPTICAL LOGIC DEVICES AND COMPUTATION

Research Training

- Dr Sheena Francis was the recipient of a research travel grant from the UTech Research Development Fund to conduct research at the University of Liverpool, UK, June 1 – August 31, 2013. Dr Francis investigated the ability of selected plant extracts to inhibit the activity of mosquitoes.
- Dr Aneisha Collins-Fairclough was the recipient of a research travel grant from the UTech Research Development Fund to conduct research at the University of North Carolina-Chapel Hill, July 8 – August 18, 2013. Dr Collins-Fairclough conducted tests on serum samples from HIV-positive patients.



FACULTY OF SCIENCE AND SPORT (Cont'd.)

Special Events

Faculty Public Forum on the Cockpit Country (September 12, 2013)

A public forum titled “Cockpit Country: Jamaica’s Natural Heritage” held on September 12, 2013 was hosted with the support of grant funds from the Environmental Foundation of Jamaica (EFJ) and was chaired by Dr Debbie-Ann Gordon-Smith with invited speakers: Dr Susan Koenig, Windsor Research Centre, Ms Donna Lowe, Senior Director, Forest Science and Technology Services, Forestry Department and Dr Andrew Lamm (CSRECS/NPRL).

of Kinesiology at McMaster University. There was also a panel discussion under the theme “The Role of on-site Chiropractic Care at National and International Competitions”, with Dr Neil Gardner, Dr Ty Ashcroft and Dr Thien Dang-Tan making up the panel.

ACP S&T II – Improving Innovation Capacities in the Caribbean

UTech is represented on the team executing the project titled “INVOCAB - Improving Innovation Capacities in the Caribbean” started on January 1, 2014 with funding



Dr. Debbie-Ann Gordon-Smith (1st left), Director, Centre for Science-Based Research, Entrepreneurship and Continuing Studies (CSRECS) in the Faculty of Science and Sport (FOSS) fields a question from the audience at the Faculty’s Public Forum on the Cockpit Country hosted in collaboration with the Environmental Foundation of Jamaica (EFJ) at UTech’s Papine campus on Thursday, September 12, 2013. Dr. Gordon-Smith moderated the Forum which was addressed by panellists seated from left, Dr. Andrew Lamm, Senior Lecturer and Head of Research Projects, FOSS, Ms. Donna Lowe, Senior Director, Forest Science and Technology Services, Forestry Department of Jamaica and Dr. Susan Koenig, Director of Windsor Research Centre, Trelawny.

Ideas and Research Lecture Series

A lecture titled “Goat Islands: The potential effects of their development” was held on March 13, 2014 in collaboration with the Environmental Sciences Division. Guest speakers were Ms Diana McCaulay, Chief Executive Officer at the Jamaica Environment Trust (JET) and Mr Brandon Hay, Scientific Officer, Caribbean Coastal Area Management Foundation (C-CAM).

amounting to €950,000 over 3 years. The Scientific Research Council of Jamaica is project lead. The project is aimed at improving the teaching capabilities and learning technologies used to teach science at the primary and secondary levels in Jamaica and Trinidad and Tobago. The UTech team is represented by Drs. Andrew Lamm and Debbie-Ann Gordon-Smith.

3rd Annual Sports Conference

The annual Caribbean Conference on Sport Sciences was held on April 12, 2013 at the Jamaica Pegasus Hotel, Kingston under the theme “Exploring Sport Sciences, Improving Performance”. The plenary speaker was Dr Martin Gibala, Professor and Chair of the the Department

Joint Committee on Science and Technology – Government of Jamaica and Republic of South Africa

Dr Debbie-Ann Gordon-Smith was nominated to represent UTech on the Joint Committee on Science and Technology between the Government of Jamaica and



FACULTY OF SCIENCE AND SPORT (Cont'd.)



Prof. the Hon. Errol Morrison, OJ (at podium), President, UTech, pays tribute to Dr. Dennis Johnson (standing, left), former Director of Sport, UTech, during the opening ceremony of the 3rd Annual Caribbean Conference on Sport Sciences hosted by the Faculty of Science and Sport (FOSS) on Friday, April 12, 2013 at the Jamaica Pegasus Hotel. Seated at the head table from left are Dr. Colin Gyles, Dean, FOSS, Hon. Natalie Neita-Headley, Minister without Portfolio with Responsibility for Sport in the Office of the Prime Minister, Dr Martin Gibala Sport Physiologist and Chair of McMaster University Department of Kinesiology and Dr. Neville Graham, Patron of the Conference.

Republic of South Africa to cooperate on Science and Technology.

Coaching Courses

- For the period under review, five football coaching courses (three Advanced Level I, and two Advanced Level II) were delivered and two graduation ceremonies were held, as UTech continues its collaboration with the Jamaica Football Federation (JFF).
- UTech also collaborated with the Jamaica Cricket Association (JCA) to continue the education of young cricketers on and off the field as well as the training of coaches.
- The second Advanced level I Netball Coaching Course was held in April 2013.

STUDENTS ACHIEVEMENTS

In April 2013: Sports Management students Simon Tomlinson and Kane Watson, the top two-ranked table tennis players in the country attended a specialised training camp at the Koping ITTF World Junior and Elite Training Camp in Sweden ahead of the World Table Tennis Championship in France scheduled for May 13-20.

Miss Delta Wright was selected to represent Jamaica by the Jamaica Intercollegiate Sports Association (Intercol) as a part of a three-person delegation to South Korea at the 12th Annual International University Sports Federation (FISU) Student Forum. The theme for the forum was “University Sport: A networking Platform to Advance the Technical, Social and Cultural Skills of Young Leaders. During the forum, Miss Wright was named the most outstanding female student.



FACULTY OF THE BUILT ENVIRONMENT



Dr. Carol Archer
Dean

Caribbean School of Architecture School of Building and Land Management

CARIBBEAN SCHOOL OF ARCHITECTURE (CSA)

REGIONAL STUDY TOURS

The regional study tours are among the strongest elements of the Caribbean School of Architecture's curriculum.

Students of the school visited Belize City, Belize in February 2014, where in addition to the academic objectives, the School held talks with the local professional association, the president of the Federation of Caribbean Architects, and introduced the CSA to students of the University of Belize, which offers an entry level course in architectural technology.

In February 2014 students also visited Port of Spain, Trinidad. This was the school's fifth visit to Trinidad and the work of the students was given wide exposure through an exhibition facilitated by the local professional body.

As part of the curriculum of the Master's Course of Study, the school also visited metropolitan spaces in North, South and Central America. In March 2014, students and staff visited New Orleans, Louisiana. In addition to making visits to local firms, places of architectural interest and an intensive study of the French Quarter, the school initiated linkages with Tulane University.

SCHOOL OF BUILDING AND LAND MANAGEMENT

Land Surveying Practicum Exercises

Surveying Practicum exercises for first and third year students were successfully conducted over the period

May 6 – 17, 2013. The first year practicum was based in Negril, Westmoreland, and the third year exercises at various locations in Kingston and St. Andrew. The topographical surveys were conducted at the Melbourne Cricket grounds and Calabar High School. Hydrographic surveying exercises were conducted at the Kingston Harbour.



Students on Practicum in Negril.

Papine Development Area Council (PDAC)

The Faculty's Community Service committee, continues to provide support to the Papine Development Area council as reported below.

UN Urban Youth Fund

Eight third year B.Sc. URP students led by Lisa Marie Starrad submitted a proposal titled, *'Transforming the Urban Economy and Youth Spaces within the Papine Market, Jamaica'* to the United Nations' (UN) Urban Youth Fund in April 2013 as one of the deliverables for the Community Development and Planning (URP3006) module. The Urban Youth Fund is aimed at providing youth-led projects worldwide with an opportunity to materialize their innovate ideas towards urbanization with the aim of involving the youth in the UN-Habitat's mandate.



FACULTY OF THE BUILT ENVIRONMENT (Cont'd.)

Over 8,000 applicants from youth-led organizations in 129 countries vied for the US\$25,000 grant. Applications received went through a rigorous evaluation process, including a check of eligibility, a quality assessment, short-listing, vetting by Habitat Programme Managers and a final selection of projects by the Steering Committee. The selected projects were then approved by the UN's Advisory Committee. The UTech students' proposal was among the 32 successful applications and among the ten (10) for Latin America and the Caribbean.

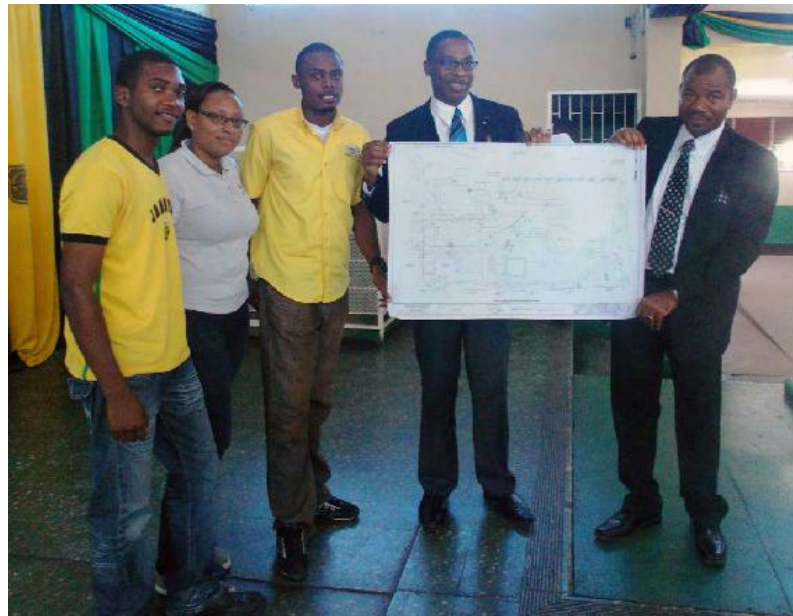
As part of the requirements for the disbursement of the youth fund grant, Miss Starrad, the group leader, participated in the coordinators' training which was held in Medellin, Colombia in March 2014.



Lisa-Marie Starrad (3rd left, front row) displaying her certificate in Medellin, Colombia as part as the UN's Youth Training Project

UTech's LSGIS Division Presents Topographical Plan to Calabar High School

On October 25, 2013, the Division of Land Surveying and Geographic Information Sciences (LSGIS) presented a detailed topographical plan to the Principal of Calabar High School. The plan covers the more than thirty-five acres of the Calabar High School Red Hills Road campus, and was produced from land surveying data obtained from the third year BSc Surveying and GIS students' Surveying Practicum exercises. It was presented in both electronic and hard copy formats to Principal Mr Albert Corho, who is also a UTech alumnus.



Dr Garfield Young, (4th left) Programme Director for UTech's LGIS Programmes made the presentation to the principal.

CONTINUING EDUCATION COURSES

The short professional Real Estate Salesman 100 hours/4 weeks (full time) course was offered in April, July and November with an average class size of 60 persons per session. The Real Estate Dealers six months (part-time) course began in July with 18 persons attending.

PUBLIC LECTURE

At the invitation of the Faculty, Ms Vanessa Leon, Principal Planner for Pinchina Consulting, a New York based company which has engaged in extensive research and work surrounding planning issues, and more specifically, China's presence in the Caribbean, delivered a public lecture, titled "*Moving Towards Mutually Beneficial Cooperation with China in the Caribbean*", on Thursday, September 26, 2013 in the FOBE lecture theatre. The event was designed to strengthen the discourse centred on built environment issues, as well as provide relevant information on topical issues such as the logistics hub.



Western Campus



Prof. Geraldene Hodelin, OD
Principal (Acting)

The Western Campus is a unique composition of several sites which host graduate, undergraduate and UTech Academy programmes. The sites are Dome Street, Barnett Clinic, Greenfield Stadium, Port Antonio, Mandeville, UTech Academy Papine Campus and the UTech/JIM School of Advanced Management at 47 Old Hope Road.

The Western Campus experienced significant improvements to the physical and technological infrastructure during the year, which included the opening of the Western Campus Head Office in Falmouth, Trelawny on August 22, 2013; the acquisition and official opening of the Dome Street site on November 8, 2013, which secured a permanent base in Montego Bay and facilitated the relocation of operations from Kent Avenue; and the opening of the UTech Museum, located at the Head Office of the Western Campus, on June 31, 2013.

Special Projects

The Western Campus museum and a Herb Garden Project at the Western campus headquarters were officially inaugurated on Saturday, February 1, 2014. The events were held as part of the social activities for the International Association of University Presidents (IAUP) meeting hosted by UTech in Montego Bay.

The museum which is a culmination of the efforts from a number of departments exhibits information relating to the University's contribution to nation-building and development and the history of Falmouth. The herb garden, an extension of the museum, will include herbs, spices and other plants popularly associated with

Jamaican folklore. These projects are located at the historic Falmouth Manse which was renovated to house the Western campus head office. Both initiatives are income-generating and will be marketed to residents and visitors alike. An accompanying initiative is UTech West's outreach to communities within the Cockpit Country. Several staff members visited with the citizens in an effort to open a dialogue with them about the number of educational opportunities available at UTech and also to propose a partnership with the community to supply indigenous herbs for the Herb Garden Project.

UTech Opens Western Headquarters in Trelawny



Prof. Geraldene Hodelin, OD, Principal (Acting), University of Technology, Jamaica (UTech) – Western campus cuts the symbolic ribbon to officially open the Western Campus Headquarters at the Baptist Manse in Falmouth, Trelawny. Sharing in the special occasion held on Thursday, August 22, 2013 are from left, Dr. James Goren, Co-Chairman, UTech Western Advisory Committee, Mrs. Jennifer Ellis, Vice President, Human Resources and Administration, His Worship Cllr. Garth Wilkinson, Mayor of Falmouth, Mr. Blaise Hart, Chairman, Good Hope Estate, Prof. the Hon. Errol Morrison, OJ, President, UTech and Dr. Elaine Wallace, University Registrar, UTech.



Planning and Operations Division



Associate Prof. Kofi Nkrumah-Young
Vice President

Planning and Institutional Research

The Division is responsible for facilitating, coordinating and guiding the University’s Strategic and Operational Planning Process. This extends to monitoring and evaluating the execution of all capacity building and Institutional enhancement projects related to the physical plant and the ICT infrastructure as well as ensuring the safety and security of the University’s constituents and property.

The Annual Executive Management Retreat under the theme “From Strategy to Focused Action” resulted in clarification and agreement on focused goals as follows:

- Increased enrolment and student performance
- Improved Quality Assurance
- Improved Operational Efficiencies
- Diversification of Revenue Streams
- Recruitment and retention of competent Faculty and Staff
- A profile-raising marketing and branding strategy

These were translated into specific initiatives and targets which were prioritized and budgeted.

During the Academic Year 2013-2014, the Office of Institutional Research primarily focused on institutional strengthening and developing internal capacity. This was achieved by streamlining all research projects to ensure that their primary objective – that of supplying the data needs of the various divisions – was met. The major projects that were executed during the year were:

- Launching the Dashboards system
- Enabling online access to the University’s operational plans

- Executing the University’s student and staff perception surveys
- Conducting focus group sessions with stakeholder groups
- Assessing the academic performance of students

Major projects commenced during the reporting period include the development of the University’s first factbook and a labour market information system to support graduates and institutional wide planning.

FACILITIES MANAGEMENT

Dome Street Campus

The commercial building at 17 Dome Street, Montego Bay was renovated and reconditioned for the relocation of the Kent Avenue campus.



Baptist Manse Building

A monumental building on Market Street in the town of Falmouth, Trelawny, was renovated and reconditioned for the site of the UTech Western campus headquarters.





Planning and Operations Division (Cont'd.)

Garvey Hall Expansion

The female hall of residence Garvey Hall was renovated and expanded.



Dennis Johnson Building

The Dennis Johnson Hall of Residence was renovated and expanded.



UTech Enhancement Project

The UTech Enhancement Project was developed in 2008 with the objective of expanding and improving facilities at the Papine Campus. Funding for the project was provided through a CDB loan to the GOJ which was approved in December 2007 in addition to UTech counterpart funds. It was expected to be implemented over a period of approximately 56 months commencing March 2008. The project has been extended to June 2015.

Several major civil works components of the project have been executed to date including the expansion of the School of Hospitality and Tourism Management into a state of the art teaching facility at a cost of \$175.4 million.

The original single-storey building was extended to

create a second and third floor, accessible by elevators, with a degree of alteration and extension to the ground floor.



TECHNOLOGY AND INFORMATION MANAGEMENT

The Information and Communications Technology (ICT) facilities related to all aspects of the University's operations were significantly upgraded or enhanced.

The Enterprise Application Systems (EAS) Unit

The institution's major enterprise applications, namely, the Integrated Students Administration System (ISAS), the accounting system (SYSPRO), and the Library Management system (LIMS) were upgraded to enhance their functionality and provide better performance.

Learning Technology Support Unit (LTSU)

The LTSU continued to upgrade and expand the facilities to enable the use of various technologies to enhance teaching and learning. Significant upgrades were applied to the Learning management platform (UTech-Online) Videoconferencing and Distance Learning support software compatible with UTech's environment was identified, tested and implemented. The new software includes "Fuze Meeting", licensed to enable 6 concurrent meetings/classes. Enterprise licenses were also acquired for "Turnitin" the plagiarism software used to detect student submissions that may have been plagiarized.

The Network Operating Support Systems (NOSS) unit

The Internet Bandwidth on the main campus was doubled (now 200 Mbs). The satellite campuses at Dome Street, Barnett Clinic, Falmouth, Slipe Pen Road, JIM, and Arthur Wint Drive, were connected to facilitate all island network and Internet access.



Division of Community Service and Development



Prof. Rosalea Hamilton
Vice President

New Dimensions of Community Service & Development

The Community Service and Development Division serves the critical role of facilitating service learning, community development and service as well as collaborating with key community partners such as the Papine Development Area Committee; providing institutional support to key initiatives and undertaking innovative community initiatives with national and international impact. The importance of community is cemented in the mission statement of the University and embodied in the University's philosophy - to "promote life-long learning, personal development and service to the community." Furthermore, UTech now has the potential to engage hundreds of communities, having expanded its operations to campuses in Kingston, Montego Bay, and Trelawny and will therefore be able to have greater national impact.

The UTech Cares Project

Under the theme "*UTech Cares*", the Division of Community Service & Development, the Faculty of Education and Liberal Studies, and the College of Health Sciences, with the assistance of USAID, collaborated in a programme aimed at expanding social tolerance at UTech. The UTech Cares Project was officially launched at UTech on February 14, 2014 and built on a previous initiative undertaken the previous year by the University, with support from the European Union (EU), titled *Project to Expand the Limits of Respect and Tolerance*. The objective of both initiatives was to raise

the visibility of issues relating to respect, tolerance and diversity among university students and faculty as well as the wider Jamaican society.

The Caribbean MSME Research & Development Centre

The Vice President's Office has initiated the establishment of a *Caribbean MSME Research & Development Centre*. The objective is to enable UTech to contribute to the creation of a *MSME entrepreneurial ecosystem* to enhance global competitiveness among micro, small and medium-sized enterprises (MSMEs). This includes community-based MSMEs, many of whom are in social entrepreneurship.

Caribbean Association of University Community Development Professionals

A proposal for discussion towards the establishment of a Regional Network of Tertiary Institution Professionals in Community Service & Development was developed by the Vice President Hamilton and presented by her at the UTech-hosted IAUP conference in January. Feedback was collected from a survey instrument circulated at the conference. The proposal was also introduced to relevant officers of Jamaican tertiary institutions at exploratory meetings hosted by the VP's office.

The Sterling Reasonings Musical Heritage Project

Following its recognition of the Music Industry with the Chancellor's Award in 2012, the University of Technology, Jamaica, entered into a collaboration with music industry stakeholders to develop an oral history project on the music industry. Dubbed the "Sterling Reasoning Musical Heritage Project", the objective is to uncover and record for posterity the hitherto untold, or unrecorded, stories of the origins and development of the Jamaican music industry. To that end, a group including some of the originators of the music met in Sterling, St. Ann, in an informal setting and discussed the history and various aspects of the music industry. UTech students were also included. The conversations, or Sterling Reasonings, have been recorded (sound and video) to form part of an institutional legacy for the music industry.



Division of Community Service and Development (Cont'd.)

DEPARTMENT OF COMMUNITY SERVICE AND DEVELOPMENT

Service is one of the triad of expected deliverables of the university, along with Teaching/Learning and Research. The mandate of the department is to increase the impact of the university on the communities which it serves and to measure that impact in order to promote development in a sustainable manner. It achieves this through community engagements in partnership with community groups and organizations.

The community development and community service mandate of the Department is under the leadership of the Vice President, Community Development and Service with the guidance of the Community Service Advisory Committee (CSAC). External representation on the Committee includes private sector members, public sector members (inclusive of the Social Development Commission and the Police), churches, community groups and organisations. Internal membership includes university faculty, administrative and ancillary staff.

Community service continues to be provided by individual members of staff, academic units, administrative units, the Students' Union and the Community Service Programme (CSP1001) in which all students complete a mandatory 40-hour period of service for which they receive one academic credit. During the reporting period the department utilised a wide range of external and internal activities to meet its mandate inclusive of the following.

Saturday University

Classes are held on Saturdays and home-work assistance for children preparing for the Grade-six Achievement Test (GSAT), the Grade-nine Achievement Test (GNAT) and the Caribbean Secondary Examinations Certificate (CSEC) of the Caribbean Examinations Council (CXC). In addition to providing the necessary academic support, the programme strengthens the relationships between the community and the university, provides life skills training and mentorship by university students to the participating children.

Cadet Officer Training Unit

In association with the Jamaica Combined Cadet Force (JCCF), university students are trained as cadet officers who, upon graduation are assigned to cadet units in schools as training officers contributing to the overall improvement of national discipline.

Community Service Programme (CSP 1001)

In addition to the prescribed 40 hours of service, the mandatory (CSP1001) programme includes 5 hours of classroom reflection and written assignments in order to instil a commitment to service and an understanding of the individual's place in society. The philosophy of "Ubuntu" (the belief in a universal bond of sharing that connects all humanity) is now being introduced into the curriculum to complement "Vision and Volunteerism". This programme is conducted in all the communities in which the university operates in the corporate area, the western region and in the community colleges which offer the university's franchise programmes.

African Cultural Renaissance Movement (ACRM)

This club of students focuses on the maintenance of an awareness of African culture and its retentions in the Jamaican culture. In addition to exhibitions, displays and seminars throughout the year it makes a major contribution to the annual celebration of Black History Month.

FACULTY AND DEPARTMENTAL INITIATIVES

Several Faculties and Departments devote time, energy and resources to their own projects.

STUDENT SERVICES AND REGISTRY

Carols in the Park 2013

The Counselling Unit (Division of Student Services and Registry) hosted its Seventh Annual "Carols in the Park" Ceremony on November 27, 2013. There were 315 participants from 11 schools and three institutions. The theme for the event was "Peace, Unity, Respect, Love and Safety (P.U.R.L.S.) in our Communities. The Victoria Mutual Building Society UTech Branch team continues to support this event.

COLLEGE OF BUSINESS AND MANAGEMENT (COBAM)

- Faculty members and students of the **School of Business Administration (SOBA)** painted the Tarrant Primary School as a community service project
- On May 22, 2013 Chef Karl Thomas of **Lillian's Restaurant** conducted a workshop on Food Styling to a group of teachers as a part of the annual general meeting of the Jamaican Home Economics Association (JHEA). The workshop was aimed at providing teachers with some of the tools necessary to help their students improve their food presentation skills for both examination and work experience purposes.



- **SHTM** annual Community Service Project (CSP) “Backyard Cookout” culminated with several events taking place. The first of which was an all-out effort by the CSP classes of Khalil Campbell and Ceretsie Campbell and the support of the entire SHTM staff. On 15 November 2013 students of both classes held a fund-raising event, “Nyamings in the Park” at the students’ activity centre Papine Campus. The event offered buffet service at an ‘all you can eat lunch’ which proved to be a financial success, raising over \$250,000.00.
- The students then turned their attention to the We Care Basic School in Royal Flat, Manchester, where they donated over \$150,000.00 in the form of a laptop computer, a printer, painting and beautification of the school building and the preparation of a small vegetable garden. Students from UTech enjoyed the camaraderie with the community and the toddlers from We Care Basic School.
- On **SHTM** day in March 2014 a computer tablet was presented to Nahlor Whatkis who is a special student adopted by the School’s CSP Project. She is now six years old and has benefited from the project annually based on her special needs.
- **Joan Duncan School of Entrepreneurship, Ethics and Leadership (JDSEEL) Social Entrepreneurship Trust**

People Empowerment Project (PEP), is the Agricultural Entrepreneurial Project led by Dr Henley Morgan’s Agency for Inner City Renewal (AIR), which is involved in green house agriculture in Trench Town. The project involves the construction of three greenhouses specializing in vegetable protection. One green house was completed in November 2013 and the other two were completed in March 2014. The completed green house was stocked with planting material for cherry tomatoes. A Purchaser has been identified.

AIR needs assistance in identifying markets for the products of the other two green houses. Efforts are being made to form co-operatives to own and operate the green houses at the different locations in Trench Town.

FACULTY OF ENGINEERING AND COMPUTING (FENC)

Every year, staff members of the Faculty of Engineering and Computing mount a variety of efforts to raise funds to support FENC’s Anna-Kay Scholarship and Student Welfare fund. The Anna-Kay Scholarship Fund supports a needy student through five years of high school education, while the FENC Welfare Fund provides

financial assistance to meet very basic needs such as bus fare and grocery supplies for needy FENC students.

Jamaica College Greenhouse Resuscitation

In April 2013, FENC took the decision to resuscitate the Jamaica College Greenhouse as a joint initiative between the two institutions. The resuscitation will be a community service project for FENC and presents an opportunity to practically demonstrate the Faculty’s solar irrigation project and skill sets. UTech students will assist in the project under the guidance of the lead consultant, Lecturer Dr Paul Campbell, and other team members.

FACULTY OF EDUCATION AND LIBERAL STUDIES (FELS)

An initiative intended to foster a long-term relationship between UTech/FELS and Papine High School began in September 2013 with a visit to the school by Mr Richard Samuels, Programme Director, Industrial Technology and Mr Courtney Palmer, CSP Coordinator. The first plank of the relationship was introduction to the use of AUTOCAD software, and, subsequently, instruction through short courses designed by lecturers in the FELS Industrial Technology unit and delivered to the teachers of the High School. Ongoing activities will include advanced training in CAD software which should bolster the preparation of students for SBA’s and CSEC courses.

In return, Papine High School commits to facilitating the students of FELS in the teaching practicum exercises. It is also anticipated that graduates of Papine High would see UTech, and in particular FELS, as their institution of choice for tertiary training.

COLLEGE OF HEALTH SCIENCES OUTREACH

The Caribbean School of Nursing collaborated with Birmingham City University in England, to promote International Women’s Health Issues, Jamaica (IWHIG) as a community Outreach programme.

The COHS Welfare and Wellness committee has been very successful in its outreach during the period. The group held an outreach sessions in Mammee River that focused on parenting and wellness. On the Campus, sensitization sessions were hosted in collaboration with various groups, such as Endometriosis I(WHIG), Glaucoma (eye testing in collaboration with the Caribbean Association of Pharmacists).

COLLEGE OF ORAL HEALTH SCIENCES

Free Dental Care

The College of Oral Health Sciences has been a source of significant benevolence to many vulnerable and at risk individuals in Jamaica. These services are provided at no cost the patients. Thirty-four (34) Health Fairs



Division of Community Service and Development (Cont'd.)

and Outreach sessions were conducted in communities across Jamaica, providing oral health care to some 15,000 individuals.

Services provided include examinations and consultations; diagnostic services such X-rays and biopsies; dental prophylaxis (cleaning); composite restorations /fillings; sealants; root canal treatment; oral surgery; dental implants; removable full and partial dentures; crown and bridge; orthodontics

Western Campus

The Western Campus staff and students participated in a number of events aimed at demonstrating community support and involvement. On August 4, 2013, students and staff volunteered their services at the Falmouth Infirmary painting the walls, offering health checks and making sanitary inspections of the environment.

Through the Students' Union, students organized and participated in seven events for the academic year 2013/14. Their combined efforts raised over \$100,000.00 in cash and kind. Some of the recipients of the donations included residents of the Blessed Assurance Mustard Seed Children's Home, the Open Heart Centre and the West Haven Children's Home.

DEPARTMENT OF SPORT

The Department of Sport contributes to the University's Community Service outreach programme by providing community groups access to the University's sporting and recreational facilities for training purposes. The groups consist mainly of children who have the opportunity to be exposed to UTech at an early age. Fourteen (14) different community groups and associations were granted free access to the various sports facilities, among them:

- Special Olympics for learn-to-swim lessons - Swimming pool
- Eastern Stars Cricket team (Tavern) - Cricket Practice Net
- Deaf Sport Jamaica for track training - Track
- Mona Preparatory School - Track

In addition, the Department hosted 10 charity events for schools, sporting organisations and community groups during the year.



Advancement Division



Mr. Hector Wheeler
Associate Vice President

The Advancement Division has been repositioned to strengthen the public image of the University; maintaining vibrant and effective communication with the University's target audiences, and building harmonious relations with stakeholders to engage support for the University through resource mobilization and activities by various offices or groups. The Division sits under the Office of the President and comprises the following units: Corporate Communications, Marketing, Alumni Relations and the Centre for the Arts.

Forging linkages and collaborations

The Division coordinated a number of University-wide events and initiatives designed to facilitate institutional strengthening and the by establishing and maintaining linkages, with Government, stakeholders, industries, local, regional and international institutions and organizations. These included signing of Memoranda of Understanding and other institutional agreements, and official visits to the campus by local and international bodies/institutions.

UTech Hosts IAUP Meeting

UTech was host to over 85 university presidents, chancellors, pro-chancellors and rectors from across the world who are members of the International Association of University Presidents, (IAUP) for the Association's Semi-Annual Meeting held January 30 - February 2, 2014 at the Hilton Rose Hall and Spa in Montego Bay.

The three-day high-level meeting was being held in Jamaica and the Caribbean region for the first time

and provided a forum for higher education leaders and institutions who are members of this prestigious global network, to identify and discuss the major issues and challenges facing higher education today, within a global and cross-cultural context. Among the special features of the IAUP Meeting was a Caribbean Regional forum on higher education. Panellists drawn from higher education institutions from Jamaica, the Caribbean, along with international speakers, provided the opportunity for robust discussions on shared institutional experiences as well as opportunities for strengthening relationships between regional and international institutions. Speakers delivered presentations focused on the three main areas of Caribbean Higher Education and the Internationalization Imperative, Opportunities for Higher Education, and Positioning Caribbean Higher Education in a Global Context.



Prof. Morrison delivers the welcome address at the start of the Caribbean Regional Forum held on Friday, January 31. Pictured in the front row from left are Prof. Alvaro Romo, Secretary General Elect, IAUP and Special Advisor to the President, Dr. Eunjoo Lee, Vice President, Seoul Cyber University Korea, Prof. Claude Packer, President, Micro University College, Dr. Winston Adams, President, University College of the Caribbean, Dr. Luz Longworth, Director, University of the West Indies, (UWI) Western Jamaica and Prof. Gossett Oliver, Deputy President (Acting), UTech.

Distinguished Public Lecture

The University of Technology, Jamaica (UTech) presented a public lecture titled "The Science Behind Doping and Nutrition in Sports: Let the Nation Hear!" on Tuesday, November 19, 2013 at the Jamaica Conference Centre in Kingston. The lecture was delivered by Prof. the Hon. Errol Morrison OJ, President, UTech, biomedical scientist and world-renowned expert on endocrinology, diabetes and metabolism, and Prof. Fitzroy Henry, PhD, Professor of Public Health Nutrition in UTech's College of Health Sciences and attended by coaches, athletes, nutritionists, educators, students and other members of the public.



Advancement Division (Cont'd.)



Prof. the Hon. Errol Morrison, OJ, biomedical scientist and President, UTech addressing the public lecture on "The Science Behind Doping and Nutrition in Sports: Let the Nation Hear!" hosted by the University at the Jamaica Conference Centre on Tuesday, November 19, 2013. Seated at the head table from left are Dr Ellen Campbell-Grizzle, Dean, College of Health Sciences, UTech, Prof. Fitzroy Henry, Professor of Public Health Nutrition in UTech's College of Health Sciences and Mr Carey Brown, Executive Director, Jamaica Anti-Doping Commission (JADCO).

UTech Collaborates With Government of Antigua and Barbuda Jamaica

On the invitation of Prime Minister of Antigua and Barbuda, Hon. Dr Baldwin Spencer, Prof. the Hon. Errol Morrison, OJ led a team from the University on



The UTech team from left: Prof. Hermi Hewitt, Associate Dean of Nursing, College of Health Sciences, Mr Hector Wheeler, Associate Vice President, Advancement, Dr Sean Moncrieffe, Head, School of Pharmacy, Dr Elaine Wallace, University Registrar and Prof. the Hon. Errol Morrison, OJ, President with Hon. Dr Baldwin Spencer, Prime Minister, Antigua and Barbuda and Senator Dr Edmond Mansoor, Minister of State with responsibility for Telecoms, Science and Technology, Antigua and Barbuda.

an official one-week visit to the island, January 12-17, 2014. President Morrison and his delegation achieved a number of major milestones which included discussions with the Prime Minister and other ministers of government, senior government officers, organizations and key stakeholders aimed at forging collaborative arrangements to strengthen teaching, research and service beneficial to both countries.

Strengthening Linkages with South African Universities

A delegation comprising senior personnel from the University of Technology, Jamaica (UTech), led by President, **Prof. the Hon. Errol Morrison, OJ** visited South Africa from April 26 - May 5, 2013 to strengthen linkages with a number of South African universities



Signing of a Memorandum of Understanding between the University of Technology, Jamaica (UTech) and the University of Zululand. From left are VP Prof. Rosalea Hamilton (witness); President Prof. the Hon. Errol Morrison, OJ (signatory for UTech); Dr A.P. Nevhutalu, Deputy Vice-Chancellor, University of Zululand (witness); Vice-Chancellor of the University of Zululand, Prof N.M. Mazibuko (signatory for UZ)

and public bodies for mutual benefit. During the visit, a memorandum of understanding for cooperation was signed with a number of South African universities: University of Pretoria, Tshwane University of Technology, the University of KwaZulu-Natal, and the University of Zululand, to explore student and staff exchanges in the areas of Sport, Health Sciences and Graduate Education as well as other areas of partnership. A Memorandum of Understanding was also signed with the International University of Management of Namibia.



Royal Visit

The UTech community welcomed Their Royal Highnesses The Earl and Countess of Wessex on their visit to the Papine campus on Monday, March 3, 2014. The visit to UTech formed part of the official visit of Their Royal Highnesses to Jamaica from March 2-5, 2014. During their visit, Their Royal Highnesses met with the Chancellor, Pro-Chancellor, President, Honorary Treasurer, other University Officers, Deans and students. Their Royal Highnesses also toured two incubators at the Technology Innovation Centre and met with student athletes and other student groups.



Chancellor the Most Hon. Edward Seaga, ON, PC (left) and Pro-Chancellor Mr Vivian Crawford welcome Their Royal Highnesses on arrival at the Technology Innovation Centre on March 3, 2014.



His Royal Highness The Earl of Wessex shares a hearty laugh with Doctor of Medical Dentistry (DMD) and Nursing students.

Resource Mobilization

The Division received \$13m in cash and in-kind donations from public and private sector partners to support many institutional activities including the International Association of University Presidents, (IAUP) for the Association’s Semi-Annual Meeting, Faculty conferences and sports events.

CORPORATE COMMUNICATIONS

Improving communication with our stakeholders

The monthly online campus newsletter, The UTech Communicator continued to be a major source of news on achievements and developments at the University for our internal and external stakeholders. The publication was posted monthly on the University’s website and dispatched to Alumni, University Council, institutional partners and other key stakeholders.

Image building and publicity

- Over 50 interviews were arranged with print and electronic media houses for “UTech Experts” – members of faculty and administrative staff who contributed to discussions on various issues of national and regional importance. The Division also successfully coordinated the consistent presence of “UTech Experts” in the media by submitting their articles on topical issues for publication.
- Events management/public relations, communication and protocol support services were provided for over 50 events.
- The Corporate Communications Unit prepared and disseminated a steady flow of information on developments at the University.
- Thirteen advertorials highlighting academic excellence, service, research and student, faculty and staff achievements were produced and published in the Gleaner and/or the Jamaica Observer.

MARKETING

UTech Participates in Denbigh Agricultural Show

The Advancement Division’s Marketing Unit, successfully organized the University’s participation at the 61st Denbigh Agricultural, Industrial and Food Show held in May Pen, Clarendon from August 4-6, 2013.

Social Media

Sustained efforts were made to provide relevant, accurate and timely communication via UTech’s Corporate social media pages. Engagement with stakeholders on Facebook and Twitter provided tremendous feedback with our online community. UTech’s official corporate Facebook and Twitter pages have over 10,000 followers combined.

Memorabilia Sales

\$1.3m was raised from the sales of UTech memorabilia during the reporting period.



Advancement Division (Cont'd.)

Advertising

Approximately 120 University corporate advertisements were designed and published in the local and international media.

ALUMNI RELATIONS OFFICE

The Alumni Relations portfolio was transferred from the Division of Development to the newly-constituted Division of Advancement. The Alumni Relations Manager currently reports to the Associate Vice President, Advancement. During the period 2013-14, the University continued to build on its renewed focus on Alumni Relations.

The Alumni Relations has three main objectives

- 1) To connect Alumni to the University,
- 2) To connect Alumni to each other and
- 3) To connect Alumni to the current student body.

To Connect Alumni to the University

- Alumni Blog viewership increased by **296%** - from 12,883 (2012-13) to 51,072
- Facebook Account network increased by 45.1% - from 461 (2012-13) to 669
- Facebook Group membership increased by 44.3% - from 1,129 (2012-13) to 1,630
- Facebook Fan Page membership increased by 73% - from 619 (2012-13) to 1,069
- Linked In Connections increased by 70% - from 234 (2012-13) to 397
- Linked In Group Membership increased by **187%** - from 147 (2012-13) to 422
- Twitter Followers increased by - from 49 (2012-13) to 73 representing a 49% increase
- Through the use of the inTouch Email Marketing System e-mail Reach increased by **2,199%** - from 722 (2012-2013) to 16,600
- Alumni Applications/Renewals grew from 42 (2012-13) to 62 representing a 48% increase
- Walk-in/Phone/Internet Customers Served was 87.

Alumni were offered a variety of personal and professional development options through which to connect to the University such as:

- Alumni booth representation in conjunction with the Marketing Department at the Denbigh Agricultural

Show 2013; Diaspora Conference 2013; UDOP Conference 2013 and Orientation 2013.

- Personal and Professional Development Workshops on Stress Management and Coaching Skills; original posts on the Alumni Blog related to Networking Skills and Time Management.

To Connect Alumni to Each Other

Alumni engagement with their fellow alumni was facilitated as follows:

- Hosted a social to promote networking for personal, professional and businesses development among alumni
- Launched a Business Lunch initiative which features alumni business leaders in the public and private sectors hosting younger alumni professionals for lunch to discuss their career management strategy.
- Consulted with Alumni island-wide and in the Bahamas and Antigua on how to establish Alumni Chapters and Shared Interest Groups (SIGs) to facilitate engagement among alumni with special interests.
- Networked alumni with various needs with each other to receive support on various issues, resulting in strengthening of Chapter support and one alumna receiving employment in the hospitality and personal care industry.

To Connect Alumni to the Student Body

- Supported the Student Services/Alumni Relations joint coordination of the University's Mentoring Programme, through the production of a professional development guide for mentors entitled *How to Have a Coaching Conversation*
- Brokered and facilitated student scholarships valued at approximately JAD \$1,286,385.-

CENTRE FOR THE ARTS (CFA)

The Centre for the Arts (CFA) offers elective and extracurricular programmes to UTech students and staff in the visual and performing arts and produces a range of internal and external cultural events.

Increased Student Enrolment and Participation

The Centre for the Arts registered over four hundred



University of Technology, Jamaica (UTech) scholarship awardees pose for a photograph following the presentation ceremony for scholarships totaling US\$7,000.00 handed over by the CAST/UTech Alumni Association, Florida Chapter on Monday, November 18, 2013 at the UTech Papine campus. Seated are Prof. the Hon. Errol Morrison, OJ, President, UTech and Dr Marilyn Morrison-Padilla, Board Member and Past President, CAST/UTech Alumni Association, Florida Chapter. Standing from left are Mr Hector Wheeler, AVP, Advancement, UTech students: Le-Antonio Stephenson, Faculty of Science and Sport (FOSS), Sherdene DaCosta, Faculty of Education and Liberal Studies (FELS), Sanjae Watson, College of Health Sciences, Cardel Wright, College of Business and Management, Shannon Gibson, College of Health Sciences, Gavin Samuels, Faculty of Engineering and Computing's Ava-Gail Lindsay, College of Health Sciences and Miss Cheryl Messam, Alumni Relations Manager, UTech.

(400) students in its University electives; (Drama and Theatre Arts, Dance and Music) and Extracurricular programmes to include Instrumental Band, Steel Pan, Dance, Drama and Theatre Arts, Choir, Drumming, Visual Arts and Artistry Sign Language for the Academic Year 2013-2014. This reflects a 100% increase in enrolment of students registered for the previous school year. The Performing Ensemble participated in a number of internal and external events during the academic year.

UTech Cares Project

The Centre for the Arts was the host venue for an Outside Broadcast (OB) on June 3, 2013 which focused



UTech dancers in concert at the Annual Cultural Showcase.

on the Respect and Tolerance programme spearheaded by the University. The OB was coordinated by the Advancement Division and saw a number of University personnel sharing perspectives on the importance of respect and tolerance in society.

CFA commissioned Elective Music tutor, Coswell Duncan to write "Seven Letters" as part of its contribution to the UTech Cares project. The music for the song was composed by Grub Cooper and produced by Mikey Bennett of Grafton Studio. The recording premiered at the launch of the UTech Cares Project held Friday February 14, 2014, at Lillian's Restaurant.

Strengthening Visual Arts

As part the Centre's mission to expose students to the best of Jamaican art, respected professionals are invited to interact with them on a regular basis. Edna Manley graduate Warren Buckle (whose piece, "Recycled Organism" is featured in the Caribbean Sculpture Park) conducted a workshop with the UTech Visual Arts Group. The workshop held October 16, 2013 focused on drawing techniques, portfolio building and challenges facing young artists.

Creative Edge Exhibition Series

The Centre launched its Creative Edge Exhibition Series on Thursday, September 26 at the Centre. The Exhibition which lasted for two months, showed work from nineteen artists, established and emerging, and showcased a range of art forms such as new media, installation art, and jewellery design. Guest speakers at the opening were Artist, Mr Cecil Cooper, and Technical Services Manager at the Jamaica Business Development Corporation, Mr Colin Porter, who spoke about the economic viability of the Visual Arts.

A Week of Excellence

Centre for the Arts hosted its Week of Excellence in the Visual & Performing Arts November 18- 22, 2013 at the Centre to present the work done by students during the semester in a series of concerts. The presentations provide a platform to assess students enrolled in elective programmes.

Safeguarding Cultural Assets -_"Tambu Yah Yah" Feature

Students enrolled in the Elective Dance programme at the Centre participated in a field assignment to Wakefield, Trelawny where the traditional Jamaican dance, Tambu is practised. The students were under the tutelage of one of the few remaining elders of the Dance, Mr Hopeton Reid who was among the 2014 honourees for



Advancement Division (Cont'd.)

the Annual Cultural Showcase recognizing stakeholders in dance, as well as members of Artistry in Motion, a young group in the community that has been working to safeguard the Dance form.

Students were able to learn first-hand the history of the dance and some of the authentic movements associated with the dance directly from culture bearers in the community.

A feature was produced from the footage and interviews done in the community and presented at the 2014 Cultural Showcase. The material will be used as audio-visual research content for future Elective classes and has been deposited in the National Collection of the African Caribbean Institute of Jamaica/Jamaica Memory Bank.



Safeguarding efforts in action: Dance elective students learning first-hand the techniques of the Tambu traditional dance from the Artistry in Motion Group. The students were on field research assignment in Wakefield, Trelawny January 31, 2014.

Regional Conference on Intellectual Property and Creative Industries

The Jamaica Intellectual Property Office (JIPO) in collaboration with the World Intellectual Property Organisation (WIPO) hosted the Regional Conference on Intellectual Property and Creative Industries February 10-12, 2014 at the UWI Regional Headquarters. The Centre for the Arts Director was among panellists who presented under the theme, "Protection of Caribbean Popular Music". Her presentation was titled, "Moving to the Global Beat: Safeguarding Caribbean Music on the World Stage". Dr Lindsay spoke in her capacity as Country Representative, World Heritage Committee.

A "Step by Step" Celebration of Jamaica's Dance Heritage

The annual Literary Festival and Cultural Showcase celebrated the prowess, creativity, vision and entrepreneurial skills of a range of practitioners in the Jamaican dance industry in March 2014. The event paid tribute to close to sixty (60) individuals, groups and institutions across specialty areas to include choreography, business, education and research, product development, and promotion and marketing. The day's celebration comprised an Art Exhibition, Literary Workshop and the Cultural showcase.



(L-R) Mr. Bernard Jankee, director, African Caribbean Institute of Jamaica/Jamaica Memory Bank, ACIJ/JMB, Dr. Janice Lindsay, Director, Centre for the Arts, UTech, Mrs. Millicent Shannon, Administrator, ACIJ/JMB, Ms. Kesia Weise, Acting Senior Research Fellow, ACIJ/JMB, Ms. Maxine Watson, Librarian, ACIJ/JMB.

Linkages

World Heritage Initiative - 37th session of the UNESCO General Conference and World Heritage Assembly November 5 - 22, 2013 in Paris, France

UTech's Pro-Chancellor, Mr Vivian Crawford and Director, Centre for the Arts, Dr Janice Lindsay were selected to represent Jamaica on UNESCO's World Heritage Committee (WHC). Dr Lindsay formed part of the delegation that attended the World Heritage Assembly in Paris, France. The delegation was led by Minister of Youth and Culture, Lisa Hanna who successfully spearheaded Jamaica's candidacy for membership on the WHC.



Jamaica Music Museum (JaMM)/ Institute of Jamaica (IOJ) Symposium



Prof. the Hon. Errol Morrison, OJ, President, University of Technology, Jamaica cuts the ribbon signalling the launch of the UTech exhibition, "Highlighting 50 Years of Jamaican Popular Music" in collaboration with the Jamaica Music Museum (JMM), Institute of Jamaica (IOJ) inside the Departure Lounge at the Norman Manley International Airport in Kingston on Thursday, July 11, 2013. Sharing in the launch ceremony from left are Ms. Anne Marie Bonner, Executive Director, IOJ, Mr. Vivian Crawford, OD, Pro-Chancellor, UTech and Prof. Rosalea Hamilton, Vice President, Community Service and Development, UTech.

The University partnered with the Jamaica Music Museum (JaMM), Institute of Jamaica (IOJ) to stage its music symposium, under the theme, "The Business of Jamaica's Music and Cultural Industries." The symposium was held on March 28 and 29, 2014 in the Lecture Hall at the Institute of Jamaica.

The opening reception for the symposium was held in the Caribbean Sculpture Park, on Thursday, March 27. Select performances from the 2014 staging of the UTech's Literary Festival and Cultural Showcase formed part of the evening's entertainment.



Division of Human Resources & Administration



Mrs. Jennifer Ellis
Vice President

Staffing

The total full-time staffing of the University as at March 31, 2014 stood at 1404 persons in the categories below. This reflects a total academic to non-academic ratio of 1:1.5.

Staff Category	Total	Percentages
Academic	561	40%
Non-Academic :		
Administrative 537	843	60%
Technical 183		
Ancillary 123		
Grand Total	1404	
Ratio: Academic: Non-Academic 1:1.5		

Staff Turnover

Total turnover rate as at March 31, 2014 was 6.1% which is in keeping with the targeted projected rate of 6% for the period under review.

EMPLOYEE DEVELOPMENT AND TRAINING

The University is committed to fostering an environment which encourages professional growth and enrichment. In this regard supervisors were encouraged to use the annual staff appraisal process to identify training needs

relevant to the University's and the Faculty /College / Division's Business Plans.

Over the past year, a total of 105 staff and 58 dependents received support towards their course fees, at a cost of J\$35,181,585.

Some 619 participated in conferences and workshops both locally and internationally at a cost of J\$22,532,550. This represents 44% of the total staff population.

PhD Upgrade

The university continued to provide support to academic staff to upgrade their qualifications. Twelve persons successfully completed PhD studies during the period. One Administrative staff member also gained a PhD. Four academic staff were approved to commence PhD studies in the Academic Year, 2013-2014.

PhD Obtained in Academic Year 2013-2014

College/Faculty/Division	Number
Academic:	
Faculty of Engineering and Computing	3
Faculty of the Built Environment	3
Faculty of Education and Liberal Studies	4
College of Health Sciences	2
Non-Academic:	
Office of the President	1
Total	13

The Total number of Academic staff with Terminal Degrees as at March 31, 2014 was 118 or 21.03% of the academic staff population.

Academic Promotions

A call for Promotion was issued to academic staff on June 4, 2013. Sixty-three applications were received. The University Appointments and Promotions Committee (UAPC) at its meeting held December 9, 2013, approved the promotion of twenty-seven staff members to the following academic ranks: Professors (2), Associate Professors (8) and Senior Lecturers (17).



Performance Management

Discussions and research are ongoing in order to identify a suitable online Performance Management System. In the meantime, training continues in order to provide managers with the requisite knowledge and skills to manage the process. At the end of March 2014, 585 completed appraisal reports were received, representing 41.7% of the total staff population.

Recognizing Achievements

University Annual Awards



Chancellor the Most Hon. Edward Seaga, ON, PC (left) presents Prof. Vernon Buchanan, Vice-Dean, Faculty of Engineering and Computing with the University's most prestigious award, the Distinguished Service Award for his over 32 years of exemplary service to UTech.

The University held its 43rd Annual Awards Ceremony on May 10, 2013 under the theme "Your Health is Your Wealth". Some 137 employees from all categories were honoured for long and distinguished service awards ranging from 10 to 40 years. Other category of awards that were presented included special recognition awards, award for technology and culture, and excellence in research.

HR Conference

The Division of Human Resources & Administration hosted its 4th annual HR and Wellness Conference from March 27-28, 2014 at the Sunset Jamaica Grande Resort and Spa, Ocho Rios, Jamaica under the theme "**Rebranding HR to Meet Evolving Priorities: A Caribbean Perspective**". The conference was held in collaboration with the University Diabetes Outreach Programme (UDOP) 20th Annual International Conference.

The conference provided insights into current Caribbean

human resource management. Experts were drawn locally and internationally from relevant industries to address evolving priorities through a mixture of panel discussions, interactive sessions and workshops.

Medical Centre

The Medical Centre continues to provide quality health care to the University Community. The team of health care professionals comprise two full-time doctors and four full-time registered nurses as well as 15 sessional /part-time doctors and nurses on the morning and evening shifts.

Online Appointment System – The first phase of the On-Line Appointment System for the Medical Centre was implemented on January 21, 2014 by the Enterprise Applications System Unit (EAS). The objectives are to decrease waiting time, improve workflow and allow patients to schedule appointments at their convenience.

Customer Service New Telephone System

Phase 2 of the Avaya telephone system commenced. The Avaya Telephone system is an Internet Protocol system which was first implemented in December 2012 in an effort to improve access by the university's customers.



Department of Sport



Mr. Laurence Garriques
Director (Acting)

INTERNATIONAL REPRESENTATION

2014 Penn Relays

UTech performed brilliantly at the 2014 Penn Relays. The UTech Knights finished with an unprecedented three (3) Championship of America victories. No team outside of the United States has ever shown such dominance at this meet. UTech retained the title as Champions for the College Men’s 4 x 100m Championship of America along with the College Women Sprint Medley and the College Men’s 4 x 200m.

Table 1 below shows the teams’ top performances at the 2014 Penn Relays:

Event	Place
College Men’s 4 x 100m Championship of America	1st
College Men’s 100m dash Championship (Adolphus Nevers)	1st
College Men’s 4 x 200m Championship of America	1st
College Women’s Sprint Medley Championship of America	1st
College Women’s 4 x 100m Championship of America	3rd
College Women’s 4 x 400m Championship of America	3rd

Team Picture Penn Relays/ Multi Cultural Games-Miramar Track and Field meet 2014



Men’s 4 x 100 team with Laurence Garriques (left), Director of Sport (Acting). From left are Tyquendo Tracey, Adolphus Nevers, Andrew Fisher, Julian Forte and Kwisi McFarlane.



Women’s 4 x 100m team. From left, Laurence Garriques, Director of Sport (Acting), Natasha Morrison, Elaine Thompson, Simoya Campbell, Janieve Russell and Dania Russell, Team Manager.

LOCAL REPRESENTATION

Inter-Collegiate Competitions

The UTech Knights won six (6) titles, eight (8) second place positions and three (3) third place were in Badminton, Basketball, Tennis, Hockey and Table Tennis.

UTECH CLASSIC SERIES

UTech Track and Field Classic

The 7th annual UTech Track and Field Classic had fewer entrants, which resulted in a short meet, 5 hours from 4:00pm – 9:00pm . Overseas participants came from Namibia (5), Trinidad and Tobago (3), Barbados (1).



Golf Classic

The Golf Classic was held on September 28, 2014 at the Caymanas Golf and Country Club and attracted more than 60 participants. The Golf Classic continues to generate a profit.

Knights Cricket Classic

The sixth annual T20 rivalry was a six day event, January 14 – 19. A special feature of this year’s classic was a celebrity match with outstanding players, administrators, corporate and sports personalities and others well-known members of the cricketing community. This game was played on the day prior to the finals. The UTech Knights were defeated by the G.C Foster Lions in the Semi-finals who were themselves defeated by Mico, who took the trophy.

UTech Cricket Classics



Winning Team of the 6th Annual UTech Cricket Classics

Knights Volleyball Classic

The UTech Volleyball Classic took place over a three day period January 24-26 at the Alfred Sangster Auditorium. Winners were the male team from Vikings Club and the female team from GC Foster Club.

Knights Tennis Classic

The second UTech Tennis Classics was held at the Liguanea Club over a three day period (February 26-28). The competition was open to Upper Sixth form students, existing and post graduate students. A UTech Scholarship was awarded to the Men’s Open and Ladies’ Open Winners. Mr Duaine Miller 1st Year UTech Student was awarded the scholarship while Ms Raye- Ann Sandy (UWI student) was offered a one year non-transferable scholarship, to the University of Technology.

STUDENT ATHLETE SUPPORT SERVICES AND DEVELOPMENT

Nutrition/Meals Support

For the period October to March more than 80 student



UTech Volleyball Team

athletes from Track & Field, Table Tennis and Cricket benefit from meal support by way of lunch tickets valuing \$200 per ticket. On average, 61 track & field student athletes, 12 table tennis and 8 cricket athletes receive tickets each month.

Medical Support

The Department continued to provide medical support for student athletes. Support included: prescriptions; medical items e.g. knee brace, cast, dental attention/surgery, orthopedic consultation/surgery, X-Rays, MRI services, electrocardiogram (heart scans), physiotherapy; psychiatric consultation; chiropractic services.

INTERNATIONAL AND LOCAL LINKAGES/ COLLABORATIONS

UWI/UTech Sports Championship

For the first time the UTech Knights were able to obtain the title of Champions in the UWI/UTech games at the 4th staging of the annual UWI/UTech Championship. The games were held at the UTech Grounds on Saturday September 14, 2013. Themed ‘Seven Sports, Two Teams, One Championship’ rivalry covered seven disciplines cricket, netball, volleyball, male and female football, rugby and basketball. Of the seven disciplines, UTech won all outdoor events, whilst UWI won all indoor games.



Department of Sport (Cont'd.)

Sponsorship Partners

Sponsorship received both in kind and cash from corporate entities, mostly in kind e.g. products and services, totalled approximately of \$6,254,099.00.

SPORTS FACILITIES MANAGEMENT

Interfaculty/School Competitions

The Students' Union required significant use of the facilities and had 12 competitions with over 120 matches indoor and outdoor for semester 1 and 2. The competitions included Basketball (Male & Female), Football (Male & Female), Volleyball (male & female), Netball, Cricket, badminton, swimming, futsal and Table Tennis.

Football Leagues & Inter-dorm Competitions

Football is the most popular sport in the University. The students and staff have their own organized football leagues whereby competitions are held between members of the various schools/departments. The Staff football competitions had 12 matches; the School of Building and Land Management football league (Old Boys versus current students) had 15 matches; and Engine Premiere League (Faculty of Computing and Engineering) hosted a total of 7 matches. Additionally the different schools such as College of Business Administration and the School of Pharmacy also had their annual six-a-side competitions.

Inter-dorm competitions feature sports such as basketball, football, badminton, netball, swimming, volleyball, and Futsal. The Joint Hall Sports Coordinators

administered approximately 18 matches requiring the use of the facilities for this academic year.

Intercollegiate Team

Intercollegiate teams require the use of the sporting facilities mainly during the evenings Monday-Saturdays for training and matches.

Community Use

A number of community groups have regular scheduled access to the sporting facilities as part of the university's community service.

University Exams

The auditorium and surrounding facilities are closed for a period of 2-3 weeks, three (3) times per year for the University final examinations.

STUDENT AFFAIRS UNIT

Responsibilities of the Student Affairs Unit

The main objective of the Student Affairs Unit is to ensure that student athletes are not disadvantaged, are comfortable and capable of maintaining optimal levels both in their academic and athletic performances. The Unit assists in all communication processes regarding student athletes and challenges they may be facing. For example, the unit is responsible for managing communication on behalf of students to the respective schools/lecturers when students are required to travel overseas either to represent the institution or to report for national duties. This may involve rescheduling exams.



Academic Board



First Row from left: Dr. Doryck Boyd, Dr. Judith Orogun, Mrs. Olubusola Akinladejo, Dr. Cynthia Onyefulu, Miss Judith DeLisser, Prof. the Hon. Errol Morrison, OJ, Dr. Ellen Campbell-Grizzle, Dr. Leonie Clarke, Dr. Jeanette Bartley-Bryan, Mr. Hector Wheeler

2nd Row from left: Mr. Paul Ellis, Dr. Winsome Russell, Prof. Geraldene Hodelin, OD, Prof. Colin Gyles, Prof. Rosalea Hamilton, Prof. Nilza Smith, Dr. Elaine Wallace, Mr. William Potopsingh

3rd Row from left: Mr. O'Neil Josephs, Dr. Irving McKenzie, Mr. Aldrick McNab, OD, Mr. Alfred McPherson, Dr. Rohan Lewis, Mr. Jovan Codling

Absent:

Prof. Gossett Oliver, OD, Dr. Kofi Nkrumah-Young, Mrs. Jennifer Ellis, Mr. David Drysdale, Dr. Carol Archer, Dr. Paul Golding, Dr. Neville Swaby, Mr. Laurence Neufville, Dr. Haldane Johnson, Mrs. Donna Duncan-Scott, Prof. Ashok Kalkarni, Prof. the Hon. Oswald Harding, OJ



The University Council



Left to right: The Most Hon. Edward Seaga, ON, PC, Mr. Vivian Crawford, OD, Prof. the Hon. Errol Morrison, OJ, Mr. Dennis Chung, Dr. Elaine Wallace, Mr. Ryland Campbell, Mrs. Eleanor Jones, Mr. Earle Samuels, Mrs. Olubusola Akinladejo, Mr. Eric Frater, Dr. Angela Samuels-Harris, Dr. Paul Golding,



Mrs. Karen Hewitt-Kennedy, OD, Dr. Franklin Johnston, Mr. Christopher Spencer, Mr. Ronald Sutherland, Mrs. Stancy Mighty-Dixon, Mr. Carlton Williams, Dr. Warren Blake, Dr. Carol Archer, Mr. Greaville Smith, Dr. Shane Alexis, Most Hon. Errald Miller

ABSENT: Prof. Ashok Kulkarni, Dr. Aggrey Irons



Associate Vice Presidents, Deans, Associate Deans & Heads of School



Dr. Jeanette Bartley-Bryan
Associate Vice President
Open and Distance Learning



Dr. Paul Ivey
Associate Vice President
Graduate Studies, Research
and Entrepreneurship



Dr. Haldane Johnson
Associate Vice President
Undergraduate Studies



Prof. Kent Pantry, CD, QC
Associate Vice President,
Legal Affairs



Dr. Ruth Potopsingh
Associate Vice President
Sustainable Energy



Dr. Winsome Russell
Associate Vice President
Academic Management



Mr. Hector Wheeler
Associate Vice President
Advancement

College of Business and Management



Dr. Paul Golding
Dean



Dr. Claudette Williams-Myers
Associate Dean



Dr. Neville Swaby
Associate Dean/Head,
School of Advanced
Management



Mr. Clavery Allen
Head, School of Business
Administration



Mrs. Marilyn Robinson-Cornelius
Head, School of Hospitality
& Tourism Management



Mr. Michael Steele
Head, Joan Duncan School
of Entrepreneurship, Ethics
and Leadership

College of Health Sciences



Dr. Ellen Campbell-Grizzle
Dean



Dr. Janet Campbell-Shelly
Vice-Dean



Mr. Greg-Louis Austin
Head, School of Allied
Health and Wellness



Dr. Sean Moncrieffe
Head, School of Pharmacy



Prof. Hermi Hewitt
Associate Dean,
Caribbean School of
Nursing



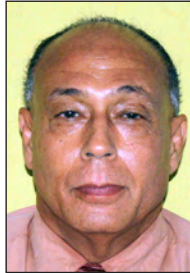
Ms. Beverley King
Head, Caribbean School
of Nursing



Joint Colleges of Medicine, Oral Health and Veterinary Sciences



Dr. Irving McKenzie
Interim Dean



Dr. Doryck Boyd
Vice-Dean, College of Oral
Health Sciences



Prof. Winston Davidson
Head, School of Public Health
and Health Technology

Faculty of The Built Environment



Dr. Carol Archer
Dean



Mr. L. Mark Taylor
Vice-Dean



Dr. Rohan Bailey
Head, Caribbean School of
Architecture



Mrs. Cadien Murray-Stuart
Head, School of Building &
Land Management

Faculty of Education and Liberal Studies



Dr. Rohan Lewis
Dean



Dr. Cynthia Onyefulu
Vice-Dean



Dr. Leonie Clarke
Head, School of Technical
and Vocational Education



Dr. Nova Gordon-Bell
Head, School of Humanities
and Social Sciences



Associate Vice Presidents, Deans, Associate Deans & Heads of School

Faculty of Engineering and Computing



Prof. Nilza Smith
Dean



Dr. Vernon Buchanan
Vice-Dean



Dr. Noel Brown
Head, School of Engineering



Mr. Arnett Campbell
Head, School of Computing and Information Technology

Faculty of Law



Mr. Alfred McPherson
Dean (Acting)



Miss Dawn McNeil
Associate Dean – Western Campus

Faculty of Science and Sport



Prof. Colin Gyles
Dean



Dr. Beverley Myers
Vice-Dean



Dr. Kamilah Hylton
Head, School of Natural and Applied Science



Mr. Errol Rowe
Head, School of Mathematics & Statistics



Mr. Orville Byfield
Head, School of Caribbean School of Sports Sciences (Acting)



Dr. Debbie-Ann Gordon-Smith
Head, Centre for Science-Based Research, Entrepreneurship and Continuing Studies



Audited Financial Statements

as at 31 March, 2014



Independent Auditors' Report

To the Members of
University of Technology, Jamaica

Report on the Financial Statements

We have audited the accompanying financial statements of University of Technology, Jamaica, set out on pages 84 to 127, which comprise the statement of financial position as at 31 March 2014 and the statements of comprehensive income, changes in equity and cash flows for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of financial statements that give a true and fair view in accordance with International Financial Reporting Standards and with the requirements of the University of Technology, Jamaica Act, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with International Standards on Auditing. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation of financial statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

PricewaterhouseCoopers, Scotiabank Centre, Duke Street, Box 372, Kingston, Jamaica
T: (876) 922 6230, F: (876) 922 7581, www.pwc.com/jm

C.D.W. Maxwell E.A. Crawford P.E. Williams L.A. McKnight L.E. Augier A.K. Jain B.L. Scott B.J. Denning
G.A. Reece R.A. Williams R.S. Nairan



**Members of University of Technology, Jamaica
Independent Auditors' Report
Page 2**

Opinion

In our opinion, the financial statements give a true and fair view of the financial position of the University as at 31 March 2014, and of its financial performance and cash flows for the year then ended in accordance with International Financial Reporting Standards and the requirements of the University of Technology, Jamaica Act.

Report on Other Legal and Regulatory Requirements

As required by the University of Technology, Jamaica Act, we have obtained all the information and explanations which, to the best of our knowledge and belief, were necessary for the purposes of our audit.

In our opinion, proper accounting records have been kept, so far as appears from our examination of those records, and the accompanying financial statements are in agreement therewith and give the information required by the University of Technology, Jamaica Act, in the manner so required.

Chartered Accountants
11 February 2015
Kingston, Jamaica

**University of Technology, Jamaica**

Statement of Comprehensive Income

Year ended 31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

	Note	2014 \$'000	Restated 2013 \$'000
Income:			
Tuition		3,283,257	3,089,674
Hostel		35,217	51,919
		<u>3,318,474</u>	<u>3,141,593</u>
Government of Jamaica subvention		1,946,453	1,841,924
Other fees		402,186	387,661
Restaurant		24,279	23,669
Projects and special accounts		161,492	169,451
Amortisation of capital grants	5	24,632	26,121
Gain on bargain purchase	31	-	31,678
Other income	6	162,480	261,468
		<u>6,039,996</u>	<u>5,883,565</u>
Expenses			
Administration expenses	7	6,250,172	6,029,278
		<u>6,250,172</u>	<u>6,029,278</u>
Deficit before net finance income		<u>(210,176)</u>	<u>(145,713)</u>
Finance income	9	255,771	301,637
Finance costs	10	(24,099)	(22,069)
Net finance income		<u>231,672</u>	<u>279,568</u>
Net Surplus		<u>21,496</u>	<u>133,855</u>
Other Comprehensive Income:			
<i>Items that will not be reclassified to surplus or deficit</i>			
Re-measurement of post-employment benefit obligations		(156,274)	(165,492)
<i>Items that may be subsequently reclassified to surplus or deficit</i>			
Unrealised gains/(losses) on available-for-sale investments		53	(944)
Total Comprehensive Income for Year		<u>(134,725)</u>	<u>(32,581)</u>

**University of Technology, Jamaica**

Statement of Financial Position

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

	Note	2014 \$'000	Restated 2013 \$'000	Restated 2012 \$'000
Non-Current Assets				
Property, plant and equipment	11	3,160,157	2,766,407	2,163,548
Intangible assets	12	10,049	9,850	5,931
Long-term investments	13	789,990	726,653	657,632
		<u>3,960,196</u>	<u>3,502,910</u>	<u>2,827,111</u>
Current Assets				
Inventories	14	34,255	26,966	24,505
Accounts receivable	15	1,295,173	1,713,128	1,164,705
Taxation recoverable	16	203,235	194,545	182,762
Short term investments	17	-	110,196	55,130
Reverse repurchase agreements	18	832,043	1,013,762	1,577,391
Cash and cash equivalents	19	193,086	291,389	185,722
		<u>2,557,792</u>	<u>3,349,986</u>	<u>3,190,215</u>
Current Liabilities				
Accounts payable	20	1,596,125	2,105,850	1,328,440
Designated receipts	21	73,511	35,919	24,605
Deferred income	22	604,998	546,118	623,507
Current portion of long-term loan	23	8,860	11,812	11,812
Bank overdraft	19	2,655	51,948	41,507
		<u>2,286,149</u>	<u>2,751,647</u>	<u>2,029,871</u>
Net Current Assets		<u>271,643</u>	<u>598,339</u>	<u>1,160,344</u>
		<u>4,231,839</u>	<u>4,101,249</u>	<u>3,987,455</u>



University of Technology, Jamaica

Statement of Financial Position (Continued)

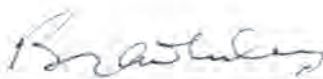
31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

	Note	2014 \$'000	Restated 2013 \$'000	Restated 2012 \$'000
Reserves				
Appropriated surplus	24	155,767	155,767	155,767
Unappropriated surplus		2,260,492	2,395,270	2,426,907
Investment revaluation		2,538	2,485	3,429
		<u>2,418,797</u>	<u>2,553,522</u>	<u>2,586,103</u>
Non-Current Liabilities				
Unexpended grants for specified projects	25	85,921	88,202	163,092
Endowment funds	26	119,697	107,861	101,997
Capital grants	5	623,265	647,897	674,018
Borrowings	23	-	8,860	20,671
Employee benefit obligations	27	984,159	694,907	441,574
		<u>1,813,042</u>	<u>1,547,727</u>	<u>1,401,352</u>
		<u>4,231,839</u>	<u>4,101,249</u>	<u>3,987,455</u>

Approved for issue by the Council on February 9, 2015 and signed on its behalf by:


 Vivian Crawford Pro-Chancellor


 Ambassador Burchell Whiteman President (Acting)
 OJ

**University of Technology, Jamaica**

Statement of Changes in Reserves

Year ended 31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

Note	Appropriated Surplus \$'000	Unappropriated Surplus \$'000	Investment Revaluation \$'000	Total \$'000
Balance at 1 April 2012, as restated	155,767	2,426,907	3,429	2,586,103
Net Surplus for year, as restated	-	133,855	-	133,855
Unrealised loss on available-for-sale investments	-	-	(944)	(944)
Re-measurement of post-employment benefit obligations	-	(165,492)	-	(165,492)
Total comprehensive income for year	-	(31,637)	(944)	(32,581)
Balance at 31 March 2013, as restated	155,767	2,395,270	2,485	2,553,522
Net Surplus for year	-	21,496	-	21,496
Unrealised gain on available-for-sale investments	-	-	53	53
Re-measurement of post-employment benefit obligations	-	(156,274)	-	(156,274)
Total comprehensive income for year	-	(134,778)	53	(134,725)
Balance at 31 March 2014	155,767	2,260,492	2,538	2,418,797



University of Technology, Jamaica

Statement of Cash Flows

Year ended 31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

	Note	2014 \$'000	2013 \$'000
Cash Flows from Operating Activities			
Net surplus for year		21,496	133,855
Adjustments for:			-
Depreciation	11	188,278	182,382
Amortisation of intangible assets	12	2,089	2,466
(Gain)/loss on disposal of property, plant and equipment		(425)	2,866
Post-employment benefits obligation		132,978	87,841
Unrealised foreign exchange gains		(168,051)	(213,024)
Gain on Bargain Purchase		-	(31,678)
Amortisation of capital grants	5	(24,632)	(26,121)
Interest income		(81,447)	(88,613)
Interest expense		406	709
		<u>70,692</u>	<u>50,683</u>
Changes in operating assets and liabilities -			
Inventories		(7,289)	(2,462)
Receivables		406,356	(555,167)
Taxation recoverable		(8,690)	(11,783)
Payables		(509,725)	769,517
Designated receipts		37,592	11,047
Deferred income		58,880	(69,350)
		<u>47,816</u>	<u>192,485</u>
Interest received		93,046	54,657
Interest paid		(406)	(879)
Net cash provided by operating activities		<u>140,456</u>	<u>246,263</u>
Cash Flows from Investment Activities			
Proceeds from disposal of property, plant and equipment		936	300
Purchase of property, plant and equipment	11	(582,539)	(720,907)
Purchase of intangible asset	12	(2,288)	(325)
Long term investments, net		58	(16,545)
Short term investments, net		383,548	659,053
Net cash used in investing activities		<u>(200,286)</u>	<u>(78,424)</u>
Cash Flows from Financing Activities			
Repayment of long term loan		(11,812)	(11,812)
Specified projects		(2,281)	(74,890)
Endowment funds		11,836	6,097
Net cash used in financing activities		<u>(2,257)</u>	<u>(80,605)</u>
Effects of exchange rate changes on cash and cash equivalents		13,076	7,992
(Decrease)/Increase in cash and cash equivalents		(49,010)	95,226
Cash and cash equivalents at beginning of year		239,441	144,215
CASH AND CASH EQUIVALENTS AT END OF YEAR	19	<u><u>190,431</u></u>	<u><u>239,441</u></u>



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

1. Identification and Activities

University of Technology, Jamaica ("the University") was established as a body corporate by the University of Technology, Jamaica Act 1999 ("the Act"), and is deemed to have come into operation on 1 September 1995. The University's registered office and principal place of operation is 237 Old Hope Road, Kingston 6, Jamaica.

The University is the successor to the College of Arts, Science and Technology, which was first established in March 1958 as the Jamaica Institute of Technology and renamed in 1959 under sections 42 and 77B of the Education Law (The College of Arts, Science and Technology Scheme 1959). The Scheme was later changed under the powers given to the Minister of Education by sections 9 and 13 of the Education Act (March 14, 1986) – The College of Arts, Science and Technology Scheme (Approval) Order. This order provided for a scheme of government for the College. By Notice published in the Jamaica Gazette, Volume CXVII No. 11333, dated December 14, 1995, the Minister of Education permitted the College of Arts, Science and Technology to be known as University of Technology, Jamaica.

The primary objectives of the University are the provision of a place of education, learning and research as set out in Article 2 of the Charter.

2. Summary of Significant Accounting Policies

The principal financial accounting policies adopted in the preparation of these financial statements are set out below. These policies have been consistently applied to all the years presented, unless otherwise stated.

(a) Basis of preparation

These financial statements have been prepared in conformity with International Financial Reporting Standards (IFRS), and have been prepared under the historical cost convention, as modified by the revaluation of certain available-for-sale investment securities.

The preparation of financial statements in conformity with IFRS requires the use of certain critical accounting estimates. It also requires management to exercise its judgement in the process of applying the University's accounting policies. Although these estimates are based on managements' best knowledge of current events and action, actual results could differ from those estimates. The areas involving a higher degree of judgement or complexity, or areas where assumptions and estimates are significant to the financial statements are disclosed in Note 4.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(a) Basis of preparation (continued)

Standards, interpretations and amendments to published standards effective in current year

- **Amendment to IAS 1, 'Presentation of Financial Statements'**, regarding other comprehensive income (OCI). The main change resulting from this amendment is a requirement for entities to group items presented in OCI on the basis of whether they are potentially reclassifiable to surplus or deficit subsequently (reclassification adjustments). The University has implemented the amendment and has adjusted the statement of comprehensive income for the current and prior years.
- **IAS 19 (Revised), 'Employee benefits'**
This standard eliminates the corridor approach and requires the recognition of all actuarial gains and losses in OCI as they occur and the immediate recognition of all past service costs. It also replaces interest cost and expected return on plan assets with a net interest amount calculated by applying the discount rate to the net defined benefit liability/(asset). The University has implemented the requirements of the standard, as detailed in Notes 27 and 31.
- **IFRS 13, Fair Value Measurement**
The standard explains how to measure fair value for financial reporting. It defines fair value; sets out in a single IFRS a framework for measuring fair value; and requires disclosures about fair value measurements. This standard applies to those standards that require or permit fair value measurements or disclosures about fair value measurements (and measurements, such as fair value less costs to sell, based on fair value or disclosures about those measurements), except in specified circumstances. The adoption of this standard did not have a significant impact on the financial statements of the University.

Standards, interpretations and amendments to published standards that are not yet effective and have not been early adopted

The University has concluded that the following standards which are published but not yet effective, are relevant to its operations, and will impact the University's accounting policies and financial disclosures as discussed below. These pronouncements are effective for annual periods beginning on or after the dates noted, and will be applied by the University as of those dates, unless otherwise noted.

IFRS 9, 'Financial instruments' (effective for annual period beginning on or after 1 January 2018)

The standard introduces new requirements for the classification, measurement and recognition of financial assets and financial liabilities, in order to ensure that relevant and useful information is presented to users of financial statements. It replaces the multiple classification and measurement models in IAS 39 with a single model that has only two classification categories: amortised cost and fair value. The determination of classification will be made at initial recognition, and depends on the entity's business model for managing its financial instruments and the contractual cash flow characteristics of the instrument. Management is assessing the timing of its adoption by the University, and the potential impact of adoption.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(a) Basis of preparation (continued)

Standards, interpretations and amendments to published standards that are not yet effective and have not been early adopted (continued)

- **IAS 32 (Amendment), 'Financial Instruments: Presentation'**, (effective for annual periods beginning on or after 1 January 2014). This amendment clarifies the requirements for offsetting financial instruments and address inconsistencies in current practice when applying the offsetting criteria in IAS 32 'Financial Instruments: Presentation'. The University will apply the standard effective 1 April 2014 but does not expect any significant impact from its adoption.
- **IAS 36 (Amendment), 'Recoverable Amount Disclosures for Non-Financial Assets'**, (effective for annual periods beginning on or after 1 January 2014). The amendments to IAS 36 require disclosure of the recoverable amount of an individual asset (including goodwill) or a cash-generating unit and additional information about the fair value less costs of disposal for which an impairment loss has been recognised or reversed during the reporting period. The requirement to disclose the recoverable amount of each cash-generating unit for which the carrying amount of goodwill or intangible assets with indefinite life intangible assets allocated to that unit is significant when compared to the total carrying amount of goodwill or indefinite life intangible assets has been removed. The future adoption of these amendments may result in additional disclosure relating to impairments or reversals of impairments. The adoption of this standard will not have any impact on the financial statements of the University.
- **IFRS 15, 'Revenue from contracts with customers'**, (effective for annual periods beginning on or after 1 January 2017). The objective of this standard is to establish the principles that an entity shall apply to report useful information to users of the financial statements about the nature, amount, timing and uncertainty of revenue and cash flows arising from a contract with a customer. Management of the University is considering the impact of the adoption of this new standard.

(b) Revenue recognition

Revenue comprises the fair value of the consideration received or receivable for the sale of services in the ordinary course of the University's activities. Revenue is recognised as follows:

Government contributions

Government contributions are recognized as income when received or deemed received by the University. They are deemed received if and when the Ministry of Finance, instead of giving cash, gives a binding written commitment to the University to settle certain of the University's obligations.

Tuition and hostel fees

Tuition and hostel fees are deferred when initially recorded at the start of the academic year upon a student registering for a school term or academic year. They are recognized as revenue evenly over the academic year in alignment with the time frame over which students attend classes and occupy housing, reflecting the assumed manner of delivery of relevant services to students.

Other fees

Other fees are recognised as income as the service is provided.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(b) Revenue recognition (continued)

Interest income and expense

Interest income and expense are recognised in the statement of comprehensive income for all interest-bearing instruments using the effective interest method.

The effective interest method is a method of calculating the amortised cost of a financial asset or a financial liability and of allocating the interest income or interest expense over the relevant period. The effective interest rate is the rate that exactly discounts estimated future cash payments or receipts through the expected life of the financial instrument or, when appropriate, a shorter period to the net carrying amount of the financial asset or financial liability. When calculating the effective interest rate, the University estimates cash flows considering all contractual terms of the financial instrument but does not consider future credit losses. The calculation includes all fees paid or received between parties to the contract that are an integral part of the effective interest rate, transaction costs and all other premiums or discounts.

Once a financial asset or a group of similar financial assets has been written down as a result of an impairment loss, interest income is recognised using the rate of interest used to discount the future cash flows for the purpose of measuring the impairment loss.

(c) Foreign currency translation

(i) Functional and presentation currency

Items included in the financial statements are measured using the currency of the primary economic environment in which the University operates ("the functional currency"). The financial statements are presented in Jamaican dollars, which is the University's functional and presentation currency.

(ii) Transactions and balances

Foreign currency transactions are translated into the functional currency using the exchange rates prevailing at the dates of the transactions. Foreign exchange gains and losses resulting from the settlement of such transactions and from the translation at year-end exchange rates of monetary assets and liabilities denominated in foreign currencies are recognised in the statement of comprehensive income.

(d) Property, plant and equipment

Property, plant and equipment are stated at historical cost less accumulated depreciation and impairment losses.

Land is not depreciated as it is deemed to have an indefinite life. For all other property, plant and equipment, depreciation is calculated on the straight-line basis to write off assets to their residual values over their estimated useful lives at annual rates as follows:

Freehold buildings	2 – 2 ½%
Leasehold buildings and improvements	2 ½ – 20%
Furniture, fixtures, plant and equipment	10 – 33 ⅓%
Motor vehicles	20 – 25%



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(d) Property, plant and equipment (continued)

Gains and losses on disposal of property, plant and equipment are determined by comparing proceeds with carrying amount and are included in surplus.

Repairs and maintenance expenditure are included in the statement of comprehensive income during the financial period in which they are incurred. The cost of major renovations is included in the carrying amount of the asset when it is probable that the future economic benefits in excess of the originally assessed standard of performance of the existing asset will flow to the University.

(e) Intangible assets

Generally, costs associated with developing or maintaining computer software are recorded as an expense as incurred. However, costs that are directly associated with identifiable and unique software products controlled by the University, and which have probable economic benefits exceeding the cost beyond one year, are recorded as intangible assets. The costs of these assets are amortised over their estimated useful lives of three years.

Brand is shown at historical cost less amortisation and impairment and is deemed to have a finite useful life. Amortisation is calculated using the straight-line method to allocate the cost of the intangible asset over its estimated useful life of 20 years.

(f) Financial instruments

Financial assets

The University classifies its financial assets in the loans and receivables, available for sale and held to maturity categories. The classification depends on the purpose for which the financial assets were acquired. Management determines the classification of its financial assets at initial recognition and re-evaluates this designation at every reporting date.

(a) *Loans and receivables*

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. They are included in current assets except for maturities greater than 12 months after the end of the reporting period. These are classified as non-current assets. The University's loans and receivables comprise short term investments, accounts receivable, other receivables and cash and cash equivalents.

(b) *Available for sale*

Available-for-sale financial assets are non-derivatives that are either designated in this category or not classified in any of the other categories.

(c) *Held-to-maturity*

Held-to-maturity investments are non-derivative financial assets with fixed or determinable payments and fixed maturities that the University's management has the positive intention and ability to hold to maturity. Were the University required to sell other than an insignificant amount of held-to-maturity assets, the entire category would be compromised and reclassified as available-for-sale.

At the date of the statement of financial position, held-to-maturity investments comprised mainly Government of Jamaica securities.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(f) Financial instruments (continued)

Regular purchases and sales of financial assets are recognised on the settlement date – the date on which an asset is delivered to or by the University. Other than financial assets at fair value through profit or loss, financial assets are initially recognised at fair value plus transaction costs. Financial assets are derecognised when the rights to receive cash flows from the assets have expired or have been transferred and the University has transferred substantially all risks and rewards of ownership. Available-for-sale financial assets are subsequently carried at fair value. Loans and receivables are carried at amortised cost using the effective interest method. Changes in the fair value of investments classified as available-for-sale are recognised in other comprehensive income.

When investments classified as available-for-sale are sold or impaired, the accumulated fair value adjustments recognised in equity are included in the statement of comprehensive income. Dividends on available-for-sale equity instruments are recognised in the statement of comprehensive income when the University's right to receive payments is established.

The fair values of quoted investments are based on current bid prices. If the market for a financial asset is not active, the University establishes fair value by using valuation techniques. These include the use of recent arm's length transactions, reference to other instruments that are substantially the same and discounted cash flow analysis making maximum use of market inputs and relying as little as possible on entity-specific inputs.

Financial assets are assessed at each statement of financial position date for objective evidence of impairment. A financial asset is considered impaired if its carrying amount exceeds its estimated recoverable amount. The amount of the impairment loss for assets carried at amortised cost is calculated as the difference between the asset's carrying amount and the present value of expected future cash flows discounted at the original effective interest rate. The recoverable amount of a financial asset carried at fair value is the present value of expected future cash flows discounted at the current market interest rate for a similar financial asset.

In the case of equity securities classified as available for sale, a significant or prolonged decline in the fair value of the security below its cost is considered an indicator that the securities are impaired. If any such evidence exists for available-for-sale financial assets, the cumulative loss – measured as the difference between the acquisition cost and the current fair value, less any impairment loss on that financial asset previously recognised in surplus or deficit – is removed from OCI and recognised as part of the University's surplus or deficit. Impairment losses recognised in net surplus or deficit on equity instruments are not reversed through net surplus or deficit.

Financial liabilities

The University's financial liabilities are initially measured at fair value, and are subsequently measured at amortised cost using the effective interest method. At the date of the statement of financial position, the following items were classified as financial liabilities: bank overdraft, long term loan, accounts payable and designated receipts.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(g) Securities purchased under agreements to resell

Securities purchased under resale agreements are treated as collateralized financing transactions. The difference between the sale/purchase and repurchase/resale price is treated as interest and accrued over the life of the agreements using the effective yield method.

(h) Inventories

Inventories are valued at the lower of cost and net realisable value, cost being determined on a first-in, first-out basis. Net realisable value is the estimated selling price in the ordinary course of business less selling expenses.

(i) Accounts receivable

Accounts receivable are carried at original invoice amount less provision made for impairment of these receivables. A provision for impairment of these receivables is established when there is objective evidence that the University will not be able to collect all amounts due according to the original terms of receivables. The amount of the provision is the difference between the carrying amount and the recoverable amount, being the present value of expected cash flows, discounted at the market rate of interest for similar borrowers.

(j) Cash and cash equivalents

Cash and cash equivalents include cash at bank and in hand, deposits held at call with banks, other short-term highly liquid investments with original maturities of three months or less, net of bank overdrafts. These are carried at amortised cost.

(k) Accounts payable

Accounts payable are initially recognized at fair value and are subsequently carried at amortised cost.

(l) Designated receipts

Amounts received from lenders or donors, which are designated for specified or identifiable students, or others, for the purpose of covering costs incurred at, or in relation to their attendance at the University, are included as a current liability until paid to, or applied on behalf of the beneficiaries.

(m) Provisions

Provisions are recognised when the University has a present legal or constructive obligation as a result of past events, if it is probable that an outflow of resources will be required to settle the obligation, and a reliable estimate of the amount can be made. Where the University expects a provision to be reimbursed, the reimbursement is recognised as a separate asset but only when the reimbursement is virtually certain.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(n) Capital grants

Capital grants comprise the following:

- (i) The estimated fair value of property, plant and equipment donated to the University, and
- (ii) Amounts granted to the University subject to conditions that must be met, the primary condition being that the grant must be used for the acquisition or construction of property, plant and equipment.

The amounts meeting conditions include sums received for the purchase of property, plant and equipment and the fair value of buildings donated.

For each reporting period, an amount equivalent to the depreciation charge on the relevant property, plant and equipment for that period is transferred from capital grants as a credit to income.

(o) Grants for specified projects

The University receives grants for specified projects.

Grants that are governed by donor-imposed stipulations, which stipulations must be complied with to the satisfaction of the donor for the project expenditure to be approved, are, until spent as stipulated, described as unexpended grants for specified projects. Such grants are accounted for as follows:

- (i) *Grants received in advance of project expenditure*
Grants received in advance of expenditure are deferred, shown in the statement of financial position as 'Unexpended grants for specified projects'. When funds are spent in accordance with the donor's stipulations, the amount is charged off, and included in the relevant expense classification or, if applicable, in property, plant and equipment. An equivalent amount is then transferred from 'Unexpended grants for specified projects' to income as 'projects and special accounts income' or, if the expenditure is capital, to 'capital grants' on the statement of financial position, which is subsequently accounted for, as described in the Capital grants note.
- (ii) *Project expenditure made in advance of receipt of grants pledged*
Where projects are funded by donors on a reimbursement basis, the amounts spent are set up as receivable from the donor, and are also reflected in the administration and other operating expenses note as 'special projects expenses' or, if applicable, on the statement of financial position as property, plant and equipment, with an equivalent sum reflected in income as 'Special projects income' or, if the expenditure is capital, on the statement of financial position as 'Capital grants'.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

2. Summary of Significant Accounting Policies (Continued)

(p) Employee benefits

(i) Pension Plan

The University operates a defined contribution plan. Once the contributions have been paid, the University has no further payment obligations. Contributions to the plan are charged to the statement of comprehensive income in the period to which they relate.

Employee benefits that are earned as a result of past or current service are recognised in the following manner: Short-term employee benefits are recognised as a liability, net of payments made, and charged as expense. The expected cost of vacation leave that accumulates is recognised when the employee becomes entitled to the leave. Post employment benefits are accounted for as described below.

Assets and obligations arising from the University's legal or constructive undertaking to provide post-employment benefits are included in these financial statements and have been actuarially determined by a qualified independent actuary, appointed by management.

Pension scheme costs included in surplus or deficit represent contributions to the fund established under the scheme which the University operates to provide retirement pensions for its employees. Contributions to the fund, made on the basis provided for in the rules, are accrued and charged off when due as the scheme is materially a defined contribution scheme.

(ii) Medical Care

The University also has a constructive obligation to provide certain post-employment medical benefits. The obligation to fund these future benefits is actuarially determined and accounted for as follows:

The amount recognised in the statement of financial position in respect of post-employment medical benefits is the present value of the post-employment medical benefit obligation at the statement of financial position date. The defined benefit obligation is calculated annually by independent actuaries using the projected unit credit method. The present value of the post-employment medical benefit obligation is determined by discounting the estimated future cash outflows using interest rates of high-quality Government of Jamaica bonds that are denominated in the currency in which the benefits will be paid and that have terms to maturity approximating to the terms of the related pension liability.

Actuarial gains and losses arising from experience adjustments and changes in actuarial assumptions are charged or credited to equity in other comprehensive income in the period in which they arise.

Past-service costs are recognised immediately in expenses.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management

The University's activities expose it to a variety of financial risks: market risk (including currency risk, fair value interest rate risk and cash flow interest rate risk), credit risk and liquidity risk. The University's overall risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential adverse effects on the University's financial performance.

The University's risk management policies are designed to identify and analyse these risks, to set appropriate risk limits and controls, and to monitor the risks and adherence to limits by means of reliable and up-to-date information systems. The University regularly reviews its risk management policies and systems to reflect changes in markets, products and emerging best practice.

The University Council is ultimately responsible for the establishment and oversight of the University's risk management framework.

The risk management policies are established to identify and analyse the risk faced by the University, to set appropriate risk limits and controls, and to monitor risks and adherence to limits.

The Council has established committees for managing and monitoring risks, as follows:

Finance Committee

The Finance Committee through the Finance and Business Services Division is responsible for developing and monitoring the University's financial risk management policies. This committee reports regularly to the Council on its activities.

Audit Committee

The Audit Committee oversees how management monitors compliance with the University of Technology Act as it relates to its policies and procedures, and reviews the adequacy of the risk management framework in relation to the risks faced by the University. The Audit Committee is assisted in its oversight role by the University's Internal Audit Department. This department undertakes both regular and ad hoc reviews of risk management controls and procedures, the results of which are reported to the Audit Committee.

The most important types of risk are credit risk, liquidity risk and market risk. Market risk includes currency risk and interest rate risk.

(a) Credit risk

The University takes on exposure to credit risk, which is the risk that its students, commercial customers (such as the Students Loan Bureau and scholarship donors) or counterparties will cause financial loss for the University by failing to discharge their contractual obligations. Credit exposures arise principally from the University's receivables and investment activities.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Credit risk (continued)

Credit review process

The management of the University is responsible for regular reviews of the ability of students and commercial customers to meet repayment obligations, as well as the monitoring of other counterparties.

Receivables

The University's exposure to credit risk is influenced mainly by the individual characteristics of each student and commercial customer. The University has procedures in place to restrict further participation in courses of study until repayment obligations are met.

Customer credit risk is monitored according to their credit characteristics such as whether it is an individual or company or whether the counter party is experiencing financial difficulties. Receivables relate mainly to the amounts due from:

- Students – in some cases, this is based on a signed agreement between the students and the University to pay on account over a specified period, not exceeding 9 months;
- Students Loan Bureau (SLB); and
- Approved scholarship donors.

The balances are analysed into the following categories: Current, Receivables past due but not impaired, and Receivables past due and impaired.

An assessment of each group of debtors is done and the credit risk relating to each evaluated. Specific actions are taken according to debtor group and the identified risk. In addition, the Integrated Student Administrative System assists with the tracking of payments and monies owed by the various stakeholders and this further assists management with current information to assess each situation.

The University establishes a provision for impairment that represents its estimate of incurred losses in respect of receivables. The University addresses impairment on an individual basis. The provision is mainly in relation to Student Receivables.

Investments

The University limits its exposure to credit risk by investing mainly in liquid securities, with counterparties that have high credit quality and Government of Jamaica securities. Accordingly, management does not expect any counterparty to fail to meet its obligations.

The University has documented investment policies which guide the management of credit risk on long term investments, short term investments and reverse repurchase agreements. The University's exposure is continually monitored.

Cash and bank balances

Cash and bank transactions are limited to high credit quality financial institutions. The University has policies that limit the amount of credit exposure to any financial institution.

The University's maximum credit exposure is limited to \$3,042,501,000.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Credit risk (continued)

Credit review process (continued)

Aging analysis of accounts receivable that are past due but not impaired

Credit exposure for the University mainly relates to students, the Students' Loan Bureau and scholarship donors. Accounts receivable are deemed past due when payments are not received on the contractual repayment dates. The majority of the past due accounts receivable are not considered impaired.

The ageing analysis of these accounts receivable is as follows:

	2014	2013
	\$'000	\$'000
Student receivables past due not impaired		
Students receivable		
Under 12 months	279,981	254,636
Students Loan Bureau		
Under 12 months	348,976	354,640
Scholarship donors		
Under 12 months	51,831	63,874
Over 365 days	8,653	7,496
	<u>689,441</u>	<u>680,464</u>

Aging analysis of accounts receivable that are past due and impaired

As of 31 March 2014, accounts receivable of \$265,175,000 (2013 - \$179,923,000) were impaired. The amount of the provision was \$265,175,000 (2012 - \$179,923,000). The individually impaired receivables mainly relate to students who are in difficult economic situations

Movement analysis of the provision for impairment of accounts receivable

	2014	2013
	\$'000	\$'000
At 1 April	179,923	161,090
Provisions for receivables impairment	<u>85,252</u>	<u>18,833</u>
At 31 March	<u>265,175</u>	<u>179,923</u>

The creation and release of provision for impaired receivables have been included in other operating expenses in the statement of comprehensive income. Amounts charged to the provision account are generally written off when there is no expectation of recovering additional cash.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(a) Credit risk (continued)

Credit review process (continued)

Movement analysis of the provision for impairment of accounts receivable (continued)

The University believes that no impairment provision is necessary in respect of financial assets other than tuition fees receivable. There are no financial assets other than those listed above that were individually impaired.

Exposure to credit risk for investments

The following table summarises the University's credit exposure for investments at their carrying amounts, as categorised by issuer:

	2014 \$'000	2013 \$'000
Government of Jamaica	789,990	726,653
Financial institutions	832,043	1,123,958
	<u>1,622,033</u>	<u>1,850,611</u>

(b) Liquidity risk

Liquidity risk is the risk that the University may be unable to meet its payment obligations associated with its financial liabilities when they fall due. Prudent liquidity risk management implies maintaining sufficient cash and other liquid assets, and maintaining the availability of funding through an adequate amount of committed credit facilities.

Liquidity risk management process

The University's liquidity management process, as carried out within the University and monitored by the Finance Committee through the Finance and Business Services Division includes:

- (i) Monitoring future cash flows and liquidity on an ongoing basis. This incorporates an assessment of expected cash flows and the availability of collateral which could be used to secure funding if required;
- (ii) Maintaining a portfolio of highly marketable assets that can easily be liquidated as protection against any unforeseen interruption to cash flow; and
- (iii) Optimising cash returns on investments.

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)**(c) Market risk**

Financial liabilities cash flows

The tables below summarise the maturity profile of the University's financial liabilities at 31 March based on contractual undiscounted payments.

	Within 1 Month \$'000	2 to 3 Months \$'000	4 to 12 Months \$'000	2 to 5 Years \$'000	Over 5 Years \$'000	Total \$'000
As at 31 March 2014:						
Loans	772	1,544	6,950	-	-	9,266
Accounts payable	-	1,383,601	-	-	-	1,383,601
Designated receipts	-	73,511	-	-	-	73,511
Bank overdraft	2,655	-	-	-	-	2,655
Total financial liabilities (contractual maturity dates)	3,427	1,458,656	6,950	-	-	1,469,033
As at 31 March 2013:						
Loans	-	3,082	9,136	8,970	-	21,188
Accounts payable	-	1,375,366	-	-	-	1,375,366
Designated receipts	-	50,284	-	-	-	50,284
Bank overdraft	51,948	-	-	-	-	51,948
Total financial liabilities (contractual maturity dates)	51,948	1,428,732	9,136	8,970	-	1,498,786

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)**(c) Market risk (continued)**

The University takes on exposure to market risks, which is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risks mainly arise from changes in foreign currency exchange rates and interest rates. Market risk is monitored by the Finance Committee which monitors the investment portfolio against policies established by the University Council, and reports to the Council on a regular basis. Market risk exposures are measured using sensitivity analysis.

There has been no change to the University's exposure to market risks or the manner in which it manages and measures the risk.

Currency risk

Currency risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in foreign exchange rates.

The University is exposed to foreign exchange risk with respect to the US dollar, CAN dollar and the Euro. Foreign exchange risk arises from future commercial transactions, recognised assets and liabilities.

The University manages its foreign exchange risk by ensuring that the net exposure in foreign assets and liabilities is kept to an acceptable level by monitoring currency positions. The University further manages this risk by maximising foreign currency earnings from its investments and holding foreign currency balances.

	2014					Total J\$'000
	Jamaican\$ J\$'000	STG J\$'000	US\$ J\$'000	CAN\$ J\$'000	Euro J\$'000	
Financial assets						
Long term investments	184,485	-	575,517	-	29,988	789,990
Accounts receivable	1,046,104	-	184,485	-	-	1,230,589
Reverse repurchase agreements	259,174	54,431	498,094	2,423	17,921	832,043
Cash and cash equivalents	127,416	795	28,289	3,933	32,653	193,086
Total financial assets	1,617,179	55,226	1,286,385	6,356	80,562	3,045,708
Financial liabilities						
Accounts payable	1,383,601	-	-	-	-	1,383,601
Designated receipts	73,511	-	-	-	-	73,511
Long term loan	8,860	-	-	-	-	8,860
Bank overdraft	2,655	-	-	-	-	2,655
Total financial liabilities	1,468,627	-	-	-	-	1,468,627
Net financial position	(148,552)	55,226	1,286,385	6,356	80,562	1,577,081

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)**(c) Market risk (continued)***Currency risk (continued)*

	2013					Total J\$'000
	Jamaican\$ J\$'000	STG J\$'000	US\$ J\$'000	CAN\$ J\$'000	Euro J\$'000	
Financial assets						
Long term investments	160,970	-	542,752	-	22,931	726,653
Accounts receivable	1,493,795	-	167,195	-	-	1,660,990
Short term investments	51,869	-	58,327	-	-	110,196
Reverse repurchase agreements	64,936	31,809	909,270	2,384	5,363	1,013,762
Cash and cash equivalents	182,478	657	97,660	3,507	7,087	291,398
Total financial assets	1,954,048	32,466	1,775,204	5,891	35,381	3,802,990
Financial liabilities						
Accounts payable	1,357,499	-	17,867	-	-	1,375,366
Designated receipts	35,919	-	-	-	-	35,919
Long term loan	20,672	-	-	-	-	20,672
Bank overdraft	47,775	-	4,173	-	-	51,948
Total financial liabilities	1,461,865	-	22,040	-	-	1,483,905
Net financial position	492,183	32,466	1,753,164	5,891	35,381	2,319,094

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)**(c) Market risk (continued)*****Currency risk (continued)******Foreign currency sensitivity***

The following tables indicate the currencies to which the University had significant exposure on its monetary assets and liabilities and its forecast cash flows. The change in currency rate below represents management's assessment of the possible change in foreign exchange rates. The sensitivity analysis represents outstanding foreign currency denominated monetary items and adjusts their translation at the year end for a reasonably expected change in foreign currency rates. The sensitivity of the surplus was primarily as a result of foreign exchange gains and losses on translation of receivables, payables, cash and cash equivalents, and investments.

	% Change in Currency Rate 2014	Effect on Surplus 2014 \$'000	% Change in Currency Rate 2013	Effect on Surplus 2013 \$'000
Currency:				
USD – Revaluation	-1%	(12,863)	-5%	(87,658)
USD – Devaluation	+15%	192,958	+5%	87,658
CAN – Revaluation	-1%	(64)	-5%	(294)
CAN – Devaluation	+15%	953	+5%	294
STG – Revaluation	-1%	(552)	-5%	(1,623)
STG – Devaluation	+15%	8,284	+5%	1,623
EURO – Revaluation	-1%	(806)	-5%	(1,769)
EURO – Devaluation	+15%	12,084	+5%	1,769

Interest rate risk

Interest rate risk is the risk that the value or future cash flows of a financial instrument will fluctuate because of changes in market interest rates. Floating rate instruments expose the University to cash flow interest rate risk, whereas fixed interest rate instruments expose the University to fair value interest rate risk.

The University manages its interest rate risk by matching, where possible, the duration and profile of financial assets and liabilities to minimise the impact of interest rate movements where there are mismatches. Typically, the University enters into fixed rate investment and loan contracts, thereby minimising its exposure to interest rate risk.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(c) Market risk (continued)

Interest rate risk (continued)

The University's main interest rate risk arises from investment securities. Government of Jamaica investments, which mainly have maturities greater than one year, are fixed rate instruments and are classified as held-to-maturity. The University's shorter term investments are also at fixed rates. The University's investments therefore do not expose it to interest rate risk.

The University earns interest on its securities purchased under resale agreements as disclosed in Note 18. As these deposits have a short term to maturity and are constantly reinvested at current market rates, they are not significantly exposed to interest rate risk.

The University incurs interest on its loan disclosed in Note 23. These loans are at fixed rates, and are carried at amortised cost. These loans therefore do not expose the University to interest rate risk.

(d) Capital management

The University does not have any stated share capital. The University however has reserves consisting of appropriated surplus and unappropriated surplus.

The University is not subject to any externally imposed capital requirements.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

3. Financial Risk Management (Continued)

(e) Fair value of financial instruments

Fair value is the amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties in an arm's length transaction.

The following table provides an analysis of financial instruments held as at the end of the financial year that, subsequent to initial recognition, are measured at fair value. The financial instruments are grouped into Levels 1 to 3 based on the degree to which the fair value is observable, as follows:

- Level 1 fair value measurements are those derived from quoted prices (unadjusted) in active markets for identical instruments. The quoted market price used is the current bid price at the year end date.
- Level 2 fair value measurements are those derived from inputs other than quoted prices included within level 1 that are observable for the instrument, either directly (i.e., as prices) or indirectly (i.e., derived from prices). The fair value of financial instruments not traded in an active market is determined by using valuation techniques, which maximise the use of observable market data where it is available and rely as little as possible on entity specific estimates.
- Level 3 fair value measurements are those derived from valuation techniques that include inputs for instruments that are not based on observable market data (unobservable inputs). The University has no financial instruments classified in Level 3.

There were no transfers between levels during the year.

	Level 1 \$'000	Level 2 \$'000	Total \$'000
	2014		
Quoted equities	3,207	-	3,207
Long term investments		786,783	786,783
	3,207	786,783	789,990
	2013		
Quoted equities	3,153	-	3,153
Long term investments		723,500	723,500
	3,153	723,500	726,653

For financial instruments classified as loans and receivables, and carried at amortised cost, the face value, less any estimated credit adjustments, for financial assets and liabilities are estimated to approximate their fair values. These financial assets and liabilities include cash and cash equivalents, accounts receivable, other receivables, payables, accrued liabilities and long term loan.



University of Technology, Jamaica

Notes to the Financial Statements

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4. Critical Accounting Estimates and Judgements in Applying Accounting Policies

The University makes estimates and assumptions that affect the reported amounts of assets and liabilities within the next financial year. Estimates and judgements are continually evaluated and are based on historical experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances.

Critical accounting estimates and assumptions

The University makes estimates and assumptions concerning the future. The resulting accounting estimates will, by definition, seldom equal the related actual results. The estimates and assumptions that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are discussed below.

(i) **Allowance for losses**

In determining amounts recorded for allowance for losses in the financial statements, management makes judgements regarding indicators of impairment, that is, whether there are indicators that suggest there may be a measureable decrease in the estimated future cash flows from accounts receivable and other financial assets, for example, repayment default and adverse economic conditions. Management also makes estimates of the likely estimated future cash flows from impaired financial assets, including the net realisable value of underlying collateral, as well as the timing of such cash flows. The adequacy of the allowance depends on the accuracy of these judgements and estimates.

(ii) **Depreciable assets**

Estimates of the useful life and the residual value of property, plant and equipment are required in order to apply an adequate rate of transferring the economic benefits embodied in these assets in the relevant periods. The University applies a variety of methods in an effort to arrive at these estimates from which actual results may vary. Actual useful life may vary from that which was originally estimated by management.

(iii) **Post-employment medical care**

The cost of this benefit depends on a number of factors that are determined on an actuarial basis using a number of assumptions. The assumptions used in determining the net periodic cost (income) for post-employment benefit includes the discount rate and the expected rate of increase in medical costs. Any changes in these assumptions will impact the net periodic cost (income) recorded for post-employment benefits and may affect planned funding of the medical plan. The discount rate represents the interest rate that should be used to determine the present value of estimated future cash outflows required to settle the post-employment benefit obligations. In determining the most appropriate rate, the interest rate of high quality Government of Jamaica bonds that are denominated in the currency in which the benefits will be paid, and that have terms to maturity approximating to the terms of the related liability are used. The expected rate of increase of medical cost has been determined by comparing the historical relationship of the actual medical cost increases with the rate of inflation in the respective economy. Past experience has shown that actual medical costs have increased on average by one time the rate of inflation. Other key assumptions for the post-employment benefit cost are based in part on current market conditions.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

5. Capital Grants

	2014	2013
	\$'000	\$'000
At beginning of year	647,897	674,018
Amortisation for the year	<u>(24,632)</u>	<u>(26,121)</u>
At end of year	<u>623,265</u>	<u>647,897</u>

6. Other Income

	2014	2013
	\$'000	\$'000
Administrative fees	14,765	15,309
Services and short courses	95,759	144,986
Student welfare	14,833	12,572
Rental of facilities	15,621	14,165
Miscellaneous	<u>21,502</u>	<u>74,437</u>
	<u>162,480</u>	<u>261,468</u>



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

7. Expenses by Nature

	2014	2013
	\$'000	\$'000
Advertising	23,277	34,661
Auditors' remuneration		
Current year	5,200	5,500
Prior year under accrual	-	1,497
Bad debt	85,252	18,833
Ceremonies	30,687	35,335
Class material	44,515	52,160
Consultancy	62,319	47,054
Depreciation and amortisation (Notes 11 and 12)	190,367	184,848
Directors' fees	3,092	2,077
Grants and contributions	185,420	226,919
Rental of space	42,620	52,481
Repairs and maintenance	137,225	164,076
Restaurant cost of goods sold	19,029	17,060
Security	84,900	78,405
Software costs	32,525	38,038
Specified projects	186,595	159,740
Staff costs (Note 8)	4,298,002	4,061,638
Stationery & office supplies	68,761	89,000
Subscriptions	84,016	90,998
Travel and subsistence	86,915	90,784
Utilities	367,114	365,325
Other operating expenses	212,341	212,849
	<u>6,250,172</u>	<u>6,029,278</u>



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

8. Staff Costs

	2014	2013
	\$'000	\$'000
Salaries and wages	3,686,438	3,546,371
Payroll taxes – employer's portion	164,526	134,958
Pension (Note 27)	112,570	108,435
Other post-employment benefits (Note 27)	138,402	92,887
Health Insurance	154,370	135,112
Uniform	41,696	43,875
	<u>4,298,002</u>	<u>4,061,638</u>

The number of persons employed by the University at the end of the year was as follows:

	2014	2013
	No.	No.
Full - time	1,404	1,410
Part - time	432	279
	<u>1,836</u>	<u>1,689</u>

9. Finance Income

	2014	2013
	\$'000	\$'000
Interest income	81,447	88,613
Gain on foreign exchange	174,324	213,024
	<u>255,771</u>	<u>301,637</u>

10. Finance Costs

	2014	2013
	\$'000	\$'000
Interest expense	406	709
Bank charges & service fees	23,693	21,360
	<u>24,099</u>	<u>22,069</u>

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

11. Property, Plant & Equipment

	Freehold Land and Buildings \$'000	Leasehold Buildings and Improvements \$'000	Furniture, Fixtures, Plant and Equipment \$'000	Motor Vehicles \$'000	Capital Projects in Progress \$'000	Total \$'000
	2014					
At Cost -						
At 1 April 2013	2,253,931	106,246	1,630,622	54,438	605,099	4,650,336
Additions	99,090	971	207,696	5,214	269,568	582,539
Transfers from CWIP	481,592	-	-	-	(481,592)	-
Disposals	-	-	(7,140)	(1,106)	-	(8,246)
At 31 March 2014	2,834,613	107,217	1,831,178	58,546	393,075	5,224,629
Depreciation -						
At 1 April, 2013	816,247	4,712	1,028,279	34,691	-	1,883,929
Charge for the year	48,682	-	133,077	6,519	-	188,278
On disposals	-	-	(6,629)	(1,106)	-	(7,735)
At 31 March 2014	864,929	4,712	1,154,727	40,104	-	2,064,472
Net Book Value -						
31 March 2014	1,969,684	102,505	676,451	18,442	393,075	3,160,157



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

11. Property, Plant & Equipment (Continued)

	Freehold Land and Buildings \$'000	Leasehold Buildings and Improvements \$'000	Furniture, Fixtures, Plant and Equipment \$'000	Motor Vehicles \$'000	Capital Projects in Progress \$'000	Total \$'000
2013						
At Cost -						
At 1 April 2012	2,131,065	95,071	1,487,727	49,579	129,167	3,892,609
Additions	67,500	-	152,538	6,495	561,874	788,407
Transfers from CWIP	73,721	11,175	1,046	-	(85,942)	-
Disposals	(18,355)	-	(10,689)	(1,636)	-	(30,680)
At 31 March 2013	2,253,931	106,246	1,630,622	54,438	605,099	4,650,336
Dépreciation -						
At 1 April, 2012	792,967	2,312	905,130	28,652	-	1,729,061
Charge for the year	39,141	2,400	133,307	7,534	-	182,382
On disposals	(15,861)	-	(10,158)	(1,495)	-	(27,514)
At 31 March	816,247	4,712	1,028,279	34,691	-	1,883,929
Net Book Value -						
31 March 2013	1,370,184	101,534	602,343	19,747	605,099	2,766,407

12. Intangible Assets

	2014 \$'000	2013 \$'000
Cost -		
At 1 April	46,820	40,435
Additions	2,288	6,385
At 31 March	49,108	46,820
Amortisation -		
At 1 April	36,970	34,504
Amortisation for the year	2,089	2,466
At 31 March	39,059	36,970
Net Book Value	10,049	9,850

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

13. Long-term investments

Long-term investments comprise the following:

	2014	2013
	\$'000	\$'000
Available-for-sale, at fair value:		
Financial institutions -		
Equities	2,682	2,649
Units in unit trusts	525	504
	<u>3,207</u>	<u>3,153</u>
Held-to-maturity, at amortised cost:		
Government of Jamaica -		
US\$ denominated bonds	580,978	524,753
Euro denominated bonds	29,989	22,931
Local bonds	175,816	175,816
	<u>789,990</u>	<u>726,653</u>

The fair value of the Government of Jamaica bonds was \$801,491,000 (2013 - \$723,500,000). These are classified as level 2 investments.

The effective weighted average interest rates on investments are 7.25% (2013 – 6.51%) and 7.63% (2013 – 4.19%) on Jamaican dollar and United States dollar investments respectively.

In February 2013, the University participated in the National Debt Exchange (NDX) transaction. The NDX involved a par-for-par exchange of domestic debt instruments ("Old Notes") issued by the Government of Jamaica for new debt instruments ("New Notes") having lower interest rate and longer maturities. While the Old Notes were all callable by the Government of Jamaica, a majority of New Notes will be non-callable. Participation in the NDX was voluntary.

There was no gain or loss on exchange of the bonds as a result of participation in the NDX.

14. Inventories

	2014	2013
	\$'000	\$'000
Stores	32,106	25,175
Restaurant	1,336	1,145
Printery	1,211	1,044
	<u>34,653</u>	<u>27,364</u>
Provision for obsolescence	(398)	(398)
	<u>34,255</u>	<u>26,966</u>



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

15. Accounts Receivable

	2014	2013
	\$'000	\$'000
Students' fees	950,437	833,614
Less: Provision for impairment	<u>(265,175)</u>	<u>(179,923)</u>
	685,262	653,691
Government of Jamaica receivables	242,830	749,021
Staff loans and advances	203,512	165,612
Prepayments	64,584	52,138
Interest receivable	14,823	26,422
Other	<u>84,162</u>	<u>66,194</u>
	<u>1,295,173</u>	<u>1,713,128</u>

Government of Jamaica receivables represent amounts withheld from the Ministry of Education, Youth and Culture to settle amounts due for statutory payroll liabilities.

16. Taxation

Under Section 17 of the Act, the University is exempt from Income Tax, Transfer Tax, Import Duties and General Consumption Tax on imported items. Under the General Consumption Tax Act, the University is entitled to acquire goods and services at a zero rate of tax. In addition, its own services are exempt from GCT under the provisions of Item 12 Part II of the Third Schedule to the GCT Act.

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

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17. Short-term Investments

	2014 \$'000	2013 \$'000
Loans and receivables		
Bank of Jamaica		
Certificates of deposit	-	110,196

18. Reverse Repurchase Agreements

The University entered into Reverse Repurchase Agreements collateralised by Government of Jamaica securities. These agreements may result in credit exposure in the event that the counterparty to the transaction is unable to fulfill its collateral obligations.

	Within 3 Months \$'000	3 to 12 Months \$'000	Carrying Value 2014 \$'000	Carrying Value 2013 \$'000
Securities purchased under resale agreements	690,245	141,798	832,043	1,013,762

The weighted average interest rate on the investment securities is 4.21% (2013 – 7.27%).

19. Cash and Cash Equivalents

	2014 \$'000	2013 \$'000
Cash at bank and in hand	193,086	291,389
Bank overdraft	(2,655)	(51,948)
	<u>190,431</u>	<u>239,441</u>

Cash and bank includes foreign currency savings accounts which attracts interest as follows, USD Savings 2.81% per annum (2012 – 1.20%), EURO Savings Account which attracts interest of 1.65% (2013 – 0.20%), Canadian Savings Account which attracts interest of 1.25% per annum (2013 - 0.20%) and Pound Sterling Savings Account which attracts interest of 1.98% per annum (2013 – 0.50%) and local savings account which attracts interest at 6.56% per annum (2013 – 1.50%). The accounting records of the University reflects a bank overdraft which results from the net of cheques issued but not yet presented to the bank and deposits in transit. The University does not have an actual overdraft with any of its bankers and no bank overdraft facilities are in place at year end.



University of Technology, Jamaica

Notes to the Financial Statements

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20. Accounts Payable

	2014	2013
	\$'000	\$'000
Accruals	201,008	179,736
Accrued vacation leave	488,240	431,993
Statutory payroll liabilities	212,524	730,484
Retroactive salary	21,725	65,175
Contractors' retention	35,782	32,764
Stale-dated cheques	24,759	21,203
Local Payables	11,818	71,856
Foreign Payables	-	17,866
Pre-paid student fees	576,063	519,269
Other	24,206	35,504
	<u>1,596,125</u>	<u>2,105,850</u>

Statutory payroll liabilities represent amounts payable on the University's behalf by the Ministry of Education, Youth and Culture.

21. Designated Receipts

	2014	2013
	\$'000	\$'000
Receipts from Students Loan Bureau to be paid to or on behalf of students	850	22,225
Scholarships	58,219	709
Students Union	14,442	12,985
	<u>73,511</u>	<u>35,919</u>

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

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22. Deferred Income

	2014	2013
	\$'000	\$'000
Balance at the beginning of the year	546,118	623,507
Tuition and boarding fees billed for the year	3,806,181	3,503,090
	<u>4,352,299</u>	<u>4,126,597</u>
Less apportionment done for the year		
Tuition & Hostel	(3,318,474)	(3,141,593)
Other fees	(402,186)	(387,661)
Other income	(26,641)	(51,225)
	<u>(3,747,301)</u>	<u>(3,580,479)</u>
Balance to be apportioned 2014/15 (2013/14)	<u>604,998</u>	<u>546,118</u>

23. Borrowings

	2014	2013
	\$'000	\$'000
Long term loan	20,672	32,484
Repayments during the year	(11,812)	(11,812)
	8,860	20,672
Less: Current portion	(8,860)	(11,812)
	<u>-</u>	<u>8,860</u>

This represents the balance due on the Jamaican dollar equivalent of US\$2,420,939 drawn down under a loan contract between the Caribbean Development Bank and the Government of Jamaica (GOJ), and on-lent by GOJ to University of Technology, Jamaica. Under the terms of the on-lending agreement negotiated between GOJ and the University, no collateral is required, and interest is payable quarterly at 2.5% per annum on the amount of loan drawn down and outstanding. The principal is repayable in 40 equal, consecutive, quarterly installments commencing 1 April 2005, with the final installment being due on 1 January 2015.



University of Technology, Jamaica

Notes to the Financial Statements

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24. Appropriated Surplus

The following has been included in Appropriated Surplus as shown below:

	2014 \$'000	2013 \$'000
Research	119,218	119,218
Staff Compensation	<u>36,549</u>	<u>36,549</u>
	<u>155,767</u>	<u>155,767</u>

These amounts represent appropriations of surplus which are held in reserve for the purposes indicated. The amounts and the designation of the allocations are made at the discretion of the Council.

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

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25. Unexpended Grants for Specified Projects

	CIDA \$'000	Environmental Foundation of Jamaica \$'000	Mustard Seed \$'000	Others \$'000	Total \$'000
Balances as at 31 March 2012	2,649	68	58	160,317	163,092
New advances	-	-	-	67,130	67,130
Interest income	-	-	-	1,082	1,082
Foreign exchange gain	-	-	-	98	98
Expenditure	-	-	-	(143,200)	(143,200)
Balances as at 31 March 2013	2,649	68	58	85,427	88,202
New advances	-	-	-	42,045	42,045
Interest income	-	-	-	1,219	1,219
Expenditure	-	-	-	(45,545)	(45,545)
Balances as at 31 March 2014	2,649	68	58	83,146	85,921

26. Endowment Funds

	2014 \$'000	2013 \$'000
At beginning of year	107,861	101,997
New funds	3,194	-
Interest earned	14,926	9,321
Amounts utilised	(6,284)	(3,457)
At end of year	119,697	107,861



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

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27. Employee Benefit Obligations

(a) Pension plan

The University has established a contributory pension plan, University of Technology, Jamaica (2006) Pension Plan, for all eligible employees. The plan is under the control of trustees appointed by the University, with the assets being held separately from those of the University.

The rules of the plan require the establishment of a fund to which each member must contribute 5% of earnings and may contribute up to an additional 10% of earnings, and the employer must contribute 5% of earnings and may make such other contributions as may be recommended by the actuary to improve the solvency of the fund, provided such contributions are permissible under relevant laws and regulations.

The pension payable on normal retirement is the normal form of annuity which may be purchased with the member's account (the accumulated member and employer contributions plus earnings thereon) up to retirement date, subject to a maximum pension of two-thirds of the member's annual earnings at retirement date, provided that the member has completed 33 1/3 years of service. The rules also provide for optional forms of pension and for benefits on early retirement.

During the year, the contributions by the University to the fund established under the rules of the plan aggregated to \$112,570,000 (2013 - \$108,435,000).

(b) Medical care

In addition to pension benefits, the University offers post-employment medical benefits. The method of accounting and the frequency of valuations are similar to those used for defined benefit pension plans. The latest actuarial valuation was done as at 31 March 2014.

The liability recognised in the statement of financial position was determined as follows:

	2014	Restated 2013
	\$'000	\$'000
Present value of unfunded obligations	984,159	694,907

The movement in the present value of the defined benefit obligation during the year was as follows:

	2014	Restated 2013
	\$'000	\$'000
At beginning of year	694,907	441,574
Current service cost	69,176	48,976
Interest cost	69,226	43,911
Remeasurements – experience adjustments	156,274	165,492
Benefits paid	(5,424)	(5,046)
At end of year	<u>984,159</u>	<u>694,907</u>

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

27. Employee Benefit Obligations (Continued)

The amounts recognised in deriving surplus or deficit is as follows:

	2014	Restated 2013
	\$'000	\$'000
Current service cost	69,176	48,976
Interest cost	69,226	43,911
Included in administration expenses (Note 8)	<u>138,402</u>	<u>92,887</u>

Movement in the liability

	2014	Restated 2013
	\$'000	\$'000
Net liability brought forward	694,907	441,574
Benefit expense (Note 8)	138,402	92,887
Remeasurements recognised in other comprehensive income	156,274	165,492
Employer contribution	(5,424)	(5,046)
Net liability at the end of the year	<u>984,159</u>	<u>694,907</u>

Impact on Employee Benefit Obligations

	Change in Assumption	Increase in Assumption	Decrease in Assumption
Discount rate	1%	(188,574)	255,248
Medical claims growth rate	1%	<u>255,248</u>	<u>(188,574)</u>
		Increase Assumption by One Year	Decrease Assumption by One Year
Life expectancy		<u>(14,262)</u>	<u>14,262</u>

The weighted average duration of the liability in relation to the medical benefits is 34 years (2013 – 33 years).



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

27. Employee benefit obligations (Continued)

Principal actuarial assumptions used in valuing post-employment benefits

The principal actuarial assumptions used in valuing post-employment benefits were as follows:

	2014	2013
	%	%
Discount rate	9.5	10.0
Inflation	8.5	5.5
Medical cost trend rate	8.5	9.0

Post-employment mortality for are based on the American 1994 Group Annuitant Mortality (GAM94) table.

28. Related Party Transactions

(a) Transactions with related parties -

	2014	2013
	\$'000	\$'000
Non-executive Council members:		
Meeting related fees and expenses	1,502	1,876
Consultancy fees	791	200

(b) Key management compensation –

	2014	2013
	\$'000	\$'000
Salaries and other short-term employee benefits	105,337	114,334
Allowances	25,359	19,297
Gratuity accrued	11,993	4,480
Payroll taxes – employer's contributions	3,737	3,950
Pension	2,966	3,040
Lieu of leave	1,915	2,790
Projects	2,415	9,416
Other	5,184	1,652
	<u>158,906</u>	<u>158,959</u>



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

29. Commitments

Approval for capital expenditure commitments to be incurred over the next year for which no provision has been made in these financial statements is as follows:

	2014 \$'000	2013 \$'000
Authorised and not contracted for	3,294,420	2,741,602
Authorised and contracted for	<u>1,272,116</u>	<u>992,365</u>

30. Contingent Liabilities

The University is subject to various claims, disputes and legal proceedings. Provision is made for such matters when, in the opinion of management and its professional advisors, it is probable that a payment will be made by the University, and the amount can be reasonably estimated.

In respect of the claims asserted against the University, which have not been provided for, management is of the opinion that such claims are either without merit or can be successfully defended or will result in exposure to the University which is immaterial to both financial position and results of operations.

31. Acquisition of UTech/JIM

In September of 2012, the University acquired control of the legacy Jamaica Institute of Management (JIM), and rebranded its operations UTECH/JIM. The University paid \$41,882,000 for which it received a building valued at \$67,500,000 and intangible assets valued at \$6,060,000. The transaction resulted in the recording of negative goodwill of \$31,678,000 for the period ended 31 March 2013.

32. Restatement

The financial statements for the years ended 31 March 2013 and 31 March 2012 have been restated to reflect the effects of the following:

Adoption of IAS 19 (Revised), 'Employee Benefits'

The revised employee benefit standard introduces changes to the recognition, measurement, presentation and disclosure of post-employment benefits. The standard also requires net interest expense / income to be calculated as the product of the net defined benefit liability / asset and the discount rate as determined at the beginning of the year. The effect of this is to remove the previous concept of recognising an expected return on plan assets. The revised standard also resulted in the immediate and full recognition of actuarial gains and losses in other comprehensive income.

The tables below show the impact of the foregoing, on the statements of financial position for the years ended 31 March 2013 and 2012 and for the statement of comprehensive income for the year ended 31 March 2013.



University of Technology, Jamaica

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

32. Restatement (Continued)

Effect on total comprehensive income for the year ended 31 March 2013

	As Previously Stated \$'000	Effect of Restatement \$'000	As Restated \$'000
Income	6,096,589	-	6,096,589
Administration expenses	(6,030,488)	1,210	(6,029,278)
Surplus before net finance income	66,101	1,210	67,311
Net finance income	66,544	-	66,544
Net Surplus/(Deficit)	132,645	1,210	133,855
Other Comprehensive Income:			
<i>Items that will not be reclassified to surplus or deficit</i>			
Re-measurement of post-employment benefit obligations	-	(165,492)	(165,492)
<i>Items that may be subsequently reclassified to surplus or deficit</i>			
Unrealised (losses)/gains on available-for-sale investments	(944)	-	(944)
Total Comprehensive Income for year	131,701	(164,282)	(32,581)

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

32. Restatement (Continued)

Effect on statement of financial position as at 31 March 2013

	As Previously Stated \$'000	Effect of Restatement \$'000	As Restated \$'000
Non-Current Assets	3,502,910	-	3,502,910
Current Assets	3,349,986	-	3,349,986
Current Liabilities	2,751,647	-	2,751,647
Net Current Assets	<u>598,339</u>	<u>-</u>	<u>598,339</u>
	<u>4,101,249</u>	<u>-</u>	<u>4,101,249</u>
Reserves			
Appropriated surplus	155,767	-	155,767
Unappropriated surplus	2,624,281	(229,011)	2,395,270
Investment revaluation	2,485	-	2,485
	<u>2,782,533</u>	<u>(229,011)</u>	<u>2,553,522</u>
Non-Current Liabilities			
Unexpended grants for specified projects	88,202	-	88,202
Endowment funds	107,861	-	107,861
Capital grants	647,897	-	647,897
Borrowings	8,860	-	8,860
Employee benefit obligations	465,896	229,011	694,907
	<u>1,318,716</u>	<u>229,011</u>	<u>1,547,727</u>
	<u>4,101,249</u>	<u>-</u>	<u>4,101,249</u>

**University of Technology, Jamaica**

Notes to the Financial Statements

31 March 2014

(expressed in Jamaican dollars unless otherwise indicated)

32. Restatement (Continued)

Effect on statement of financial position as at 31 March 2012

	As Previously Stated \$'000	Effect of Restatement \$'000	As Restated \$'000
Non-Current Assets	2,827,111	-	2,827,111
Current Assets	3,190,215	-	3,190,215
Current Liabilities	2,029,871	-	2,029,871
Net Current Assets	<u>1,160,344</u>	<u>-</u>	<u>1,160,344</u>
	<u>3,987,455</u>	<u>-</u>	<u>3,987,455</u>
Reserves			
Appropriated surplus	155,767	-	155,767
Unappropriated surplus	2,491,636	(64,729)	2,426,907
Investment revaluation	3,429	-	3,429
	<u>2,650,832</u>	<u>(64,729)</u>	<u>2,586,103</u>
Non-Current Liabilities			
Unexpended grants for specified projects	163,092	-	163,092
Endowment funds	101,997	-	101,997
Capital grants	674,018	-	674,018
Borrowings	20,671	-	20,671
Employee benefit obligations	376,845	64,729	441,574
	<u>1,318,716</u>	<u>64,729</u>	<u>1,401,352</u>
	<u>3,987,455</u>	<u>-</u>	<u>3,987,455</u>

The restatement did not have any impact on the statement of cash flows for the periods ended 31 March 2013 and 31 March 2012.



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Mr. Dexter Wadsworth

Ms. Olive Lyn (Pro-rated)

Mr. Dexter Wadsworth (MoBay Campus)

Ms. Dawn McNeil (MoBay Campus)

Ms. Tameka Spencer (MoBay Campus)

Miss Ellory Taylor (MoBay Campus)

Mr. Marcus Goffe (Prorated – MoBay)

FACULTY OF SCIENCE AND SPORT

School of Natural and Applied Sciences

Professor

Prof. Colin Gyles (Dean)

Senior Lecturers

Dr. Marcia Andrade-Campbell

Mrs. Enid Dennis-Barnett

Dr. Kamilah Hylton (Head of School)

Dr. James Smith

Mr. Patrick Williams

Lecturers

Mr. Chad Andrade

Ms. Kayon Barrett

Dr. Kerrie-Ann Bartley-Hynes

Dr. Deon Bennett

Mr. Junior Bennett

Ms. Nikki Bramwell

Dr. Melessa Brown

Mr. Linton Calder

Dr. Sacha Campbell

Dr. Aneisha Collins

Mr. Garth Dawkins

Mrs. Debbie Devonish

Mrs. Andrea Fender-Longman

Mr. George Ferriera

Dr. Sheena Francis

Ms. Natwaine Gardener

Mr. Anson Gilbert

Dr. Gabriel Harewood

Ms. Clayton Harrison

Mrs. Adonna Jardine-Comrie

Mr. Robert Johnson

Mr. George Kurian

Dr. Kathleen Lobban

Dr. Andrew Lamm

Mr. Rudolph Mangaroo

Mr. Raymond Martin

Mrs. Tamara Martin

Mr. Laten Mcleish

Dr. Beverley Myers (Vice Dean)

Mr. Damian Nesbeth

Ms. Donna-Marie Newby

Ms. Christine O'Sullivan

Dr. Melissa Sanderson

Dr. Shirley Thomas

Mrs. Nadia Watson-Spence

Dr. Cecelia Waugh-Hall

Mrs. Carrol White

Dr. Kenesha Wilson

Mr. Kirk Wilson

Assistant Lecturers

Ms. Stacy-Ann Nelson

Mr. Herter Wilmot-Simpson

Caribbean School of Sport Sciences

Lecturers

Ms. Naheel Brown

Mr. Orville Byfield (Head of School - Acting)

Mrs. Gradle Grant

Mr. Paulton Gordon

Dr. Dennis Johnson

Dr. Lorie Lawrence

Mr. David Richards

Mr. Osbourne Samuels

Mr. Andre Waugh

Mrs. Denise Wisdom



Department of Sport

Director

Mr. Laurence Garriques (Acting wef September 2012)

School of Mathematics and Statistics

Senior Lecturers

Mr. Errol Rowe (Head of School)
Dr. Winston Buckley
Mrs. Ave McIntosh

Lecturers

Dr. Dorothy Akindele
Miss Judith DeLisser
Mr. David Findlay
Miss Gerlyn Gray
Mrs. Natalie Guthrie-Dixon
Mr. Carlton Henderson
Miss Verlaine Henry
Mr. Olusegun Afis Ismail
Mrs. Tesssy Joy-Thomas
Mr. Biju Maniaghattu
Mrs. Alphonsa Matthew
Mr. Raymond Mills
Mr. Merrick Mullings
Mr. Donovan Palmer
Mr. Peter Palmer
Mr. Glenroy Pinnock
Ms. Terry-Ann Russell
Mr. Gerald Scale
Mrs. Binil Sebastian
Mr. Winston Senior
Mr. Xhano Soares
Mr. Robin Thomas
Mr. Fabian Vassel
Mr. Gustwell Weir
Mr. Kevin Williams
Mr. Dennis Xavier
Mr. Leslie Young

Centre For Science-Based Research, Entrepreneurship And Continuing Studies (CSRECS)

Senior Lecturers

Dr. Debbie-Ann Gordon-Smith (Director of Centre)

Mr. Maurice Mcglashan

FACULTY OF THE BUILT ENVIRONMENT

Caribbean School of Architecture

Senior Lecturers

Dr. Rohan Bailey (Head of School)
Dr. Elizabeth Pigou-Dennis

Lecturers

Mr. Damion Edmond
Mrs. Alison West-Martin
Mrs. Jacquiann Lawton
Miss Margaret Jarrett
Mr. Michael Stanley
Miss Denise Ramharrack
Mr. David Cuthbert
Mr. Franz Repole
Dr. Raymundo Absin
Mr. Clive Broomfield
Mr. L. Mark Taylor

School of Building and Land Management

Senior Lecturers

Dr. Amani Ishemo
Mr. Valentine McCook
Mr. Glendon Newsome

Lecturers

Mrs. Nadine Freeman-Prince
Dr. Earl Bailey
Mr. Ian Beckford
Mrs. Marva Blankson
Miss Clover Desouza
Mrs. Jacqueline Douglas-Brown
Ms. Nola Elvy
Mr. Seymour Fisher
Mr. Patrick Rodney
Mr. Desmond Hall
Mrs. Cadien Murray-Stuart
Mrs. Jenevy Smith
Dr. Copeland Stupart
Miss Hilary Smith
Mrs. Anetheo Jackson



Dr. Garfield Young
Mr. Gregory Peake
Miss Shelley-Ann Irons
Miss Rochelle Channer
Miss Julie-May Larmond
Mr. Lebert Langley
Mr. Laurence Neufville
Miss Tina Beale
Mr. Brian Leahing
Ms. Mesha Paul
Ms. Gillian McFarlane
Mr. Fernandez Anderson
Mr. Alvin Clarke (Asst. Lecturer)
Mr. Keneil Roberts
Mrs. Barbara Cooke (Asst. Lecturer)
Ms. Sherona Simpson (Study Leave)
Miss Chrystal-Gail Clue (Asst. Lecturer)

CENTRE HEADS

Director, Centre for the Arts

Dr. Janice Lindsay

Caribbean Sustainable Energy and Innovation Institute (CSEII)

Dr. Ruth Potopsingh, Associate Vice President - Sustainable Energy

ADMINISTRATIVE OFFICERS

ACADEMIC AFFAIRS DIVISION

Curriculum Specialist

Dr. Audrey Thomas

Director, Professional Studies

Mr. Colin Davis

Head, Client Services Division, Library

Ms. Janet James

Head, Library and Information Systems Division, Library

Mrs. Richele Harvey

Head, Collection Development Division, Library

Miss Glenda Dalling

SCHOOL OF GRADUATE STUDIES, RESEARCH & ENTREPRENEURSHIP

Manager, Projects and Operations

Mr. Martin Henry

Associate Vice President, Graduate Studies, Research and Entrepreneurship

Dr. Paul Ivey

UTECH WESTERN CAMPUS/UTECH ACADEMY

Acting Principal/Professor of Education

Dr. Geraldine Hodelin, OD

OFFICE OF THE PRESIDENT

Internal Auditor

Mr. Dwight Sibblies

Vice President, Human Resources

Mrs. Jennifer Ellis

Human Resource Development Manager

Norma Messam-Hinds

Compensation and Benefits Manager

Mrs. Antoinette Rockhead-Reid

Employee Labour Relations Manager

Miss Ava Weatherly

Health Services Manager

Mrs. Heather White

Legal and Compliance Officer

Mrs. Ethlyn Norton-Coke

Customer Service Advocate

Mrs. Tracey-Ann Pessoa

Personal Assistant to the President

Miss Patricia Mahoney

FACULTY OF ENGINEERING & COMPUTING

Training Manager (Engineering)

Mrs. Margaret Christian

FINANCE AND BUSINESS SERVICES DIVISION

Chief Accountant

Mrs. Carmen Facey

Business Manager

Mr. Stephen Edwards

Director, Procurement

Mrs. Dennise Haldane



DEVELOPMENT & COMMUNITY SERVICE DIVISION

Director, Community Development & Service

Mr. Seymour Riley

ADVANCEMENT DIVISION

Corporate Communications Manager

Mrs. Michelle Beckford

Director of Marketing

Mr. Ivor Bennett

OFFICE OF THE PRESIDENT

Senior Director, Institutional Relations

Miss Claire Sutherland

PLANNING AND OPERATIONS DIVISION

Senior Director, Planning & Development

Mrs. Denise Stephenson-Hammil

Project Manager

Mr. Omar Brown

Consultant, Safety and Security

Mr. Robert Finzi-Smith

Director, Technology & Information Management

Mr. Glenville Boyne

Information Systems Manager

Mr. Craig Chin

Multimedia Development & Planning Manager

Mr. Carlyon Russell

Systems Analyst

Mr. Kenneth McHayle

Database Administrator

Mr. Orrett Gayle

Systems Analyst/Team Leader

Mr. Hugh Brown

Information Systems Administrator (TIC)

Mr. Oscar Green

Director, Facilities Management Department

Mr. O'Neil Roper

Project Manager

Mr. Michael Rhule

Maintenance Manager

Mr. Pedro Lawrence

Maintenance Officer

Mr. Cavel Campbell

Construction Officer

Mr. Marvin Moore

Quantity Surveyor

Ms. Tamara Dowansingh

STUDENT SERVICES & REGISTRY

Deputy Registrar

Mrs. Mercedes Deane

Assistant Registrar, Student Services

Mrs. Dorsett Gabbidon-Pottinger

Assistant Registrar, Admissions

Mr. Barry Thomas

Assistant Registrar, Examinations

Mrs. Paulette Groves-Robinson

Assistant Registrar, Recruitment

Miss Kerry-Ann White

Assistant Registrar, University Secretariat

Mrs. Charmagne Mortley

Health Services Administrator

Mrs. Heather White

Career and Placement Officer

Vacant

Director, Student Financing

Mrs. Garcia Green-McLennon

COLLEGE & FACULTY ADMINISTRATORS

College of Business & Management

Mrs. Sharon Anderson-Roach

College of Health Sciences

Miss Delva Barnes

Faculty of Engineering & Computing

Mrs. Paula Allen (Acting)

Faculty of Education & Liberal Studies

Miss Claudine Campbell

Faculty of Law

Mrs. Karen Rhule

Faculty of Science and Sport

Miss Anna-Marie Thompson

Faculty of The Built Environment

Miss Sheryl Thomas



EXECUTIVE ASSISTANTS

Academic Affairs Division

Miss Verna Morris

College of Business & Management

Mr. Anthony Townsend

College of Health Sciences

Miss. Carren Brown

Faculty of Engineering & Computing

Miss Moya Johnson (Acting)

Faculty of Education & Liberal Studies

Miss Carolene Lake

Faculty of Law

Mrs. Elaine Codner

Faculty of Science and Sport

Mr. Nodley Wright

Faculty of The Built Environment

Miss Stacey Palmer

Human Resources Division

Mrs. Janet Barrett

Office of the President

Mrs. Lorraine Watson

Office of the VP Student Services & Registrar

Miss Debbie-Ann Harrison

Development & Community Service Division

Mrs. Norma Morgan

Legal and Compliance Office

Vacant

Planning and Operations Division

Miss Ingrid Vickerman

School of Graduate Studies, Research & Entrepreneurship

Mrs. Carol Newman-Rose

MEMBERSHIP ON EXECUTIVE MANAGEMENT BOARDS

Mr. Vivian Crawford, OD

Chancellor

Member of the following Boards:

- The Institute of Jamaica
- The Jamaica National Heritage Trust
- The Stamp Commission Committee
- The Mico University College
- The Jamaica Library Service

Professor the Hon. Errol Morrison, OJ

President

- Chair, National Innovation Awards Steering Committee – Ministry of Science, Technology, Energy and Mining
- Member, Board of Management of the University Council of Jamaica
- Member, National Committee for Science and Technology, Jamaica

Dr. Elaine Wallace

University Registrar

- Member of the Board, Broadcasting Commission

Associate Professor Kofi Nkrumah-Young

VP Planning & Operations

- Minister of Religion, Moravian Church in Jamaica
- Deputy Chair of Board, Students' Loan Bureau
- Member of Board and Chairman of Finance Committee, Bethlehem Moravian College, Jamaica
- Justice of the Peace – St. Andrew, Commissioned July 2000
- Member of Board, The Vocational Training and Development Institute (VTDI)
- Member, Jamaican Institute of Management (JIM)
- Member, Finance Committee of the Moravian Church in Jamaica
- Chairman of the Board, United Theological College of the West Indies
- Member, Patrick Hylton Committee for Financing Higher Education

Professor Gossett Oliver, OD

VP Graduate Studies, Research & Entrepreneurship

- Chairman, Apprenticeship Board (*August 12, 2013 to July 31, 2016*)
- HEART Trust/NTA
- President, The Caribbean Accreditation Council for Engineering and Technology (CACET)
- Member of the following Boards:
- Caribbean Maritime Institute (CMI)
- Jamaica Tertiary Educational Commission (J-TEC)
- The National Council on Technical and Vocational Education and Training (NCTVET)
- Credit Committee of Co-op Credit Union Limited
- Jamaica Institution of Engineers (JIE)



Professor Rosalea Hamilton

Vice President, Development and Community Service

- Member, **LASCO** Jamaica Ltd. Board
- Working Committee For MSMEs Financing -DBJ
- The **MSME** Alliance Board
- Institute of Law & Economics (**ILE**) Board
- Jamaica Wooden Products & Furniture Association (**JaWFA**) Board
- Red Hills Communities Development Association
- Partners for Transformation Committee
- Furniture Advisory Committee (**FAC**) of the Bureau of Standard, Jamaica
- Content Woodcraft Ltd (Board)
- Innovative Enterprises Ltd (Board)

Mr. David A. Drysdale

University Librarian

- Member of Board of Directors/ Vice Chairman, Portland Cooperative Credit Union

Associate Professor Ellen Campbell Grizzle

Dean, College of Health Sciences

- Member, Pharmacy Council of Jamaica
- Member, Bureau of Standards Jamaica

Prof. Colin Gyles

Dean Faculty of Science and Sport

- Board of Commissioners of the Overseas Examinations Commission - Dec. 1, 2006 to May 31, 2010.

Dr. Haldane Johnson

Dean, Faculty of Education & Liberal Studies

- The Council of Community Colleges of Jamaica Board. Deputy Chairman and Awards Ratification Chairman. Member since June 2008.
- Jamaica Association for Technical and Vocational Education & Training (JATVET) - Vice President, November 2009 – Present
- Joint Board of Teacher Education (JBTE) Foundation. Member since October 2009. Currently Secretary

Associate Professor Carol Archer

Dean, Faculty of The Built Environment

- Deputy Chair, NRCA/TCPA
- Deputy Chair, SERHA
- Chair, National Chest Hospital
- Member, UDC Development and Planning

Sub-Committee

- Member, Board of Directors, Gleaner Co.

Dr. Jeanette Bartley-Bryan

Associate Vice President, Distance Learning

- Institutional Representative, University Council of Jamaica Distance Learning Standards Committee [2013- current]
- Institutional Representative, Bureau of Standards, ISO – Technical Workgroup: JTC1/SC 36 Information Technology for Learning [2013- current]
- Deputy Chair, Jamaica Research and Education Network (JREN) [2012 – present]
- Institutional Representative, JREN Taskforce & Chair JREN Governance Workgroup [2011-present]
- President, Jamaica Association for Distance and Open Learning (JADOL) [2009 – present]
- Chair of JADOL Linkages/Partnerships & Fund-raising Committees [2004-present]
- Institutional Representative, Commonwealth of Learning [2005 – present] & Project Director for COL-UTech Comm-University Project [2011- present]
- Institutional Representative, International Council for Open and Distance Education [2004 – present]
- Institutional Representative, Board of Global Development Learning Network for Latin America & the Caribbean (GDLN-LAC) [2004 – present]
- Institutional Representative, Caribbean Association for Distance and Open Learning (CARADOL) [2004 – present]

Associate Professor Geraldene Hodelin, OD

Director, UTech Academy

- President: International Federation for Home Economics (2008-2012)
- Member, CXC National Committee (current)
- Member and Diocesan Representative; Board of Management, The Queens High School (current)
- Member, Jamaica Teachers' Services Commission (Ministry of Education)

Mrs. Ethlyn Norton Coke

Legal Counsel and Compliance Officer

Vice President/Vice Chairman, The Public Accounts Board
Member, Jamaica Stock Exchange e-Learning Committee



Dr. Irving McKenzie

Interim Dean - Joint Colleges of Medicine, Oral Health and Veterinary Science

- Member, Dental Council of Jamaica

Associate Professor Leonie Clarke

Vice Dean, Faculty of Education and Liberal Studies

- Member, National Council on Technical and Vocational Education (NCTVET)

Professor Kent Pantry, CD, QC

Associate Vice President Legal Affairs

- Chairman, Jamaica Anti-Doping Commission (JADCO)
- Chairman, Consumer Affairs Tribunal

Dr. Franklin Johnston

Council Member, Minister of Education Nominee

- Member of Board of Directors, NCB (UK)
- Minister of Education Representative on UWI Council
- Member of the Board, CASE
- Member-E-learning Committee
- Member-GC Foster Board of Directors
- Member, Ministry of Science and Technology logistics Committee
- Member, National Education Trust

Dr. Warren Blake

Council Member, Prime Minister's Nominee

- Chairman of the Board, Sports Development Foundation of Jamaica
- Member, National Council on Sports
- Member, Sports Tourism Committee

Mr. Earl Samuels

Council Member

- Director and Chairman, Property Development Committee, Devon House Development Company

Mr. Ryland Campbell

Council Member, Private Sector Nominee

- Chairman, Board of Directors - UHWI
- Member - Board of Directors - Diaspora Foundation
- Toll Regulator of Jamaica - under the Toll Roads Act
- Deputy Pro-Chancellor and Vice Chairman of the Board of Directors, Mico University College
- Commissioner of the Board of Directors, The Early Childhood Commission

Mr. Laurence Neufville

Elected Member, UTech Academic Board/Lecturer, Faculty of The Built Environment -

- Vice Chair, Titchfield High School Board of Governors
- Member, National Land Restoration Committee of the Ministry of Energy and Mining

Mr. Paul Ellis

Elected Member, UTech Academic Board/Lecturer, College Advisor/

Accreditation Officer

Member of Academic Board

College of Health Sciences

- Board Member, Bureau of Standards of Jamaica

Dr. Doryck Boyd

Elected Member, UTech Academic Board/Lecturer, College of Oral Health Sciences

- Member, Dental Council of Jamaica

Dr. Shane Alexis

Council Member

- Member of the Board of Management of the Jamaica Business Development Corporation

Dr. Angella Samuels-Harris

Council Member

Council of Community Colleges of Jamaica (CCCJ)

- Chairperson of the Academic Committee National Council on Technical and Vocational Education and Training, (NCTVET)
- Member of the Western Region Advisory Committee
- CCCJ's Representative on the NCTVET Board University Council of Jamaica
- Chairman of the Joint Committee for Tertiary Education (JCTE)



RESEARCH/PUBLICATIONS

College of Health Sciences

Conferences

- The 1st Biennial Nursing and Midwifery Research Conference was held at the Knutsford Court Hotel on August 15 and 16, 2013, under the theme, “*Utilising Research for Best Practices in Nursing and Midwifery*”.
- The College of Health Sciences participated in the 20th Annual University Diabetes Outreach Programme (UDOP) Conference, held at the Sunset Jamaica Grande from March 27 to 29, 2014. The session entitled “*Translating Health Research: From Bench to Bedside*” was sponsored by the College and featured three 20 minute scientific presentations namely:
 - Iatrogenic Diabetes and Doping by Dr. Eugenie Brown-Myrie, Associate Professor, COHS, UTech
 - Nutrition, Diabetes and the Elite Athlete. By Dr. Christine Fray-Aiken, Lecturer, COHS, UTech
 - Trends in Clinical Trials: Implications for Diabetes Management by Dr. Lenore Coleman Clinical Research Support Specialists, Healing Our Village, Inc., USA

Scholarly Achievements (Research and Publication)

Publications

- Janine McNish, Cerestie Campbell and **Sheerin Eyre**. (2013). Celebrating the Culinary Wonders of Cassava. Kingston, Jamaica:

Non-Referred Journal Publications

- Brissett I., Layne A., Reid-McKenzie R., Powell, A., Stewart J., Gordon J., and **Roberts-Watson E**. 2013. The impact of pharmacists’ interventions on patient outcome and the cost of health care at a major hospital in Kingston, Jamaica. *The Caribbean Pharmacist* 13 (1): 13-16.
- **Harris T.**, and **Pryce N.** (2013). Safe and effective use of medicines: an overview of incompatibilities in Pharmacy. *The Caribbean Pharmacist* 13 (1): 25-28

Conference Abstracts

- **E. Brown-Myrie**. (2014) Iatrogenic diabetes and doping. *West Indian Medical Journal*, Vol. 63 (Suppl 1): 30.
- **C. Fray-Aiken**. (2014) Nutrition, Diabetes and the Elite Athlete. *West Indian Medical Journal*, Vol. 63 (Suppl 1): 30.
- **F. Henry**. (2014) Nutrition for all ages. *West Indian Medical Journal*, Vol. 63 (Suppl 1): 34.
- **A. Campbell**, K. Nelson and J. Cumming. (2014). The abolition of user fee in the Jamaican Public Health System: Impact on Users’ Access to Healthcare Services. *West Indian Medical Journal*, Vol. 63 (Suppl 1): 35. 2014
- **G. Austin**. Prevention is better than cure: Strategies

supporting corruption-free assessment practices in tertiary education- The UTech/COHS experience. Proceedings of the UCCI Caribbean Conference, March 19-21, 2014, Grand Cayman Islands.

- **C. Riley**. The role of tertiary institutions in safeguarding ethical standards: Challenges and Strategies towards institutional strengthening. Proceedings of the UCCI Caribbean Conference, March 19-21, 2014, Grand Cayman Islands.
- **F. Henry**. Sports & Nutrition: Twins for success. Proceedings of the 4th Annual Conference on Sports Sciences, April 11, 2014, Kingston, Jamaica.
- **E. Grizzle**. Pharmacy in the Colonial British West Indies, 1655-1962: the Jamaican Journey. Proceedings of the International Pharmaceutical Association Conference, 31 August - 5 September, 2013, Dublin, Ireland.
- **S. Nraine, S. Perrera, S. Rambarran, S. Siebs, and S. Moncrieffe** (2013). Comparison of non-pharmacological treatment guidelines of adult HIV/AIDS patients in Guyana and Jamaica to that of British guidelines. *The Caribbean Pharmacist* 13 (1): 29.
- **M. Black-Dunkley, S. Daley, S. Lumsden, C. Parchment**, and D. Nesbeth. (2013). A comparative analysis of the effectiveness of Garlic extracts (*allium sativum*) and Clotrimazole against *Candida albicans*. *The Caribbean Pharmacist* 13 (1): 29.
- **K. Brooks, J. Cameron, R. Johnson, A. Wright**, and M. Brown An assessment of the purity of water from several courses in Jamaica. *The Caribbean Pharmacist* 13 (1): 30
- **J. Campbell**. The Therapeutic potential and toxicological profile of Pimento diocia (pimento). Proceedings of the “LATINFARMA 2013” Conference, October 21-25, 2013. Havana, Cuba.
- **F. Henry**. Ensuring ROI for workplace wellness. Proceedings of the 2nd UTECH HR Conference, March 22, 2013, Ocho Rios, Jamaica.
- **F. Henry**. Nutrition and Sports. Distinguished Public Lecture. November 19, 2013, Kingston, Jamaica.
- **F. Henry**, Nutrition programs in the Caribbean: M & E- Experience & Needs. Proceedings of the World Bank Regional Conference, October 29-30, 2013, Grenada.
- **F. Henry**. The link between Obesity & Diabetes. Ministry of hZealth, Jamaica, World Diabetes Day workshop, November 14, 2013.
- **F. Henry**. Cancer and nutrition. Proceedings of the 2nd Annual National NCD Review, November 26-27, 2013, Kingston, Jamaica.
- **A. Pusey-Murray**. (2013). Undergraduate Students’ Knowledge of HIV/AIDS and Sexual Practices in a Selected Institution in Jamaica: A Pilot Study. *Journal of Arts Science and Technology Vol 7 (Suppl 1):* 26
- **P. Larmond**. (2013). Infection control: The knowledge, attitudes and practice of final year



baccalaureate nursing students in one Jamaican university. *Journal of Arts Science and Technology Vol 7 (Suppl 1.): 28*

- **S. Corinthian-Reid.** (2013). Developing The Framework For Health Care Funding In Jamaica. *Journal of Arts Science and Technology Vol 7 (Suppl 1.): 28*
- **E. Campbell-Grizzle:** Predictive Modelling: A method for enhancing the student selection process for Caribbean Health Care professions. Proceedings of the ACHEA 12th Annual Conference, June 11-12, 2013, Montegobay, Jamaica.
- **G. Austin, C. Riley and S. Corinthian-Reid:** Responding to the new dynamics of Graduate studies in Jamaica: The case of a tertiary institution. Proceedings of the ACHEA 12th Annual Conference, June 11-13, 2013, Montegobay, Jamaica.
- **J. A. Campbell-Shelly:** Using Action research to Improve instruction and academic performance. Proceedings of the ACHEA 12th Annual Conference, June 11-13, 2013, Montegobay, Jamaica.
- N. Younger-Coleman, **C. Riley**, E. Morrison, S. R. McFarlane. A culture sensitive lay diabetes education programme for adults with type 2 diabetes in six English-speaking Caribbean countries. World Diabetes Congress, Melbourne (Australia), December (2013).
- M. Lau, **C. Riley**, D. Bennette and S. A. Adebayo. Development of Chromatographic Method for the Simultaneous Determination of Etofylline and Bromhexine Hydrochloride for Respiratory Disease in Bulk Drugs. Proceedings from the 2nd Annual Stem Cell and Regenerative Medicine Conference, Jamaica, November 22, (2013)
- **C. Riley**, S. Rodney, A.O. Wheatley and H.N. Asemota. Starch as an Excipient: Approaches towards improving the performance of solid dosage delivery systems. CARISCIENCE Conference, November 14, (2013).
- **S. Rodney, C. Riley** and S. Adebayo. Physicochemical analysis of sodium carboxymethyl starch extracted from *Artocarpus altilis* (Breadfruit) and its application as a tablet disintegrant. CARISCIENCE Conference, November 14, (2013).

SCHOOL OF PUBLIC HEALTH AND HEALTH TECHNOLOGY

Research Projects

- Silva, H. (2013). The impact of Climate Change on Physical Exercise presented at the 3rd Annual International Public Health Conference held on October 4-6, 2013
- Ferguson, D. & Riley, C. (2013). State of Readiness of Mass Casualty Management in the Caribbean. Published in the American Journal of Public Health PAHO. University of Technology, Jamaica. This was also presented Caribbean Disaster Management

Conference this was held on December 5, 2013 at the Wyndham; Rosehall, Montego Bay

Faculty of The Built Environment

Research/Publication/Achievements by Staff and Students

In its quest to internationalize its programme offerings, the Faculty continues to provide the necessary support to its staff to ensure that research activities are enhanced. These activities continue to be managed by the Faculty's Research/Publication Committee through the office of the Dean of the FOBE and chaired by Mr. Laurence Neufville. The coordinating of research activities is being carried out by Dr. Amani Ishemo with the assistance of LEVS lecturer, Mrs. Anetheo Jackson.

Caribbean School of Architecture

Dr. Rohan Bailey – Head of School

- 2014: Chapter in Book - "Predispositions to Concept Mapping: Case studies of four disciplines in higher education" (with G. Mackinnon, P. Livingston, V. Provencal & J. Saklofske) in Digital Knowledge Maps in Education: Technology-enhanced support for teachers and learners, D. Ifenthaler & R. Hanewald, editors.
- 2013: Conference Paper – "Learning to See: Teaching innovative design through the development of the seeing eye." (with A. Martin & M. Stanley). Proceedings, Actions: Making of Place, 29th National Conference on the Beginning Design Student, Temple University, 11-13 April 2013, E. Oskey, D. Playdon & L. Alvarez, co-chairs.

Dr. Elizabeth Pigou-Dennis

- "Beauty and Utility: Iron Architecture in Jamaica, 1800-1908" Conference Paper, Society of Architectural Historians, Buffalo, NY.
- "Continuum or Requiem? The Architectural Heritage of Falmouth, Jamaica" Keynote Address, Falmouth Heritage Renewal Symposium/Workshop, Falmouth.
- "Imported Sensibilities: Iconography of the Monuments in the Spanish Town Cathedral", Public Lecture, Spanish Town Cathedral. Convenor: Bill Poinsett.

Mr. Earl Bailey – Lecturer (Urban and Regional Planning). Publications include:

- Regulatory Framework of Mineral Resources Sector in Pakistan and Investment Proposal to Chinese Companies in Pakistan. *American Journal of Industrial and Business Management*, 2013, 3, 514-524 <http://dx.doi.org/10.4236/ajibm.2013.35059> Published Online September 2013 (<http://www.scirp.org/>)



[journal/ajibm\)](#)

“Redefining comprehensive urban management, in the Kingston Metropolitan Region, Jamaica”, *Journal of Place Management and Development*, Vol. 7 Iss: 1, pp.27 – 56

Dr. Amani Ishemo (Urban and Regional Planning)

Conference Presentations:

- “Transnational phases in the roles of women in the developing economies: From reproductive to productive activities to entrepreneurship. The case studies of Jamaica, Nepal and Ethiopia”. A paper jointly presented with Brenda Bushell, Akewak Yadeta and Penny Seymoure at the 19th Interdisciplinary Conference on the Environment, held in Portland Oregon, USA, June 14-17 2013.
- “Small Scale Farming and Occupational Diversity in Jamaica”. A paper presented at the 19th Interdisciplinary Conference on the Environment, Held in Portland Oregon, USA, June 14-17, 2013

Peer Review of Articles:

- “Attitudes Towards Post- Earthquake water and sanitation management and payment options in Leogane, Haiti” *International Journal of Water Resource Development*.
- “The Damned Dam. A conflict of interest, Tamil Nadu and Kerala States, India”. *Journal Emerald Emerging Markets*.

Land Surveying & Geographic Information Sciences Division

Conference/Seminar presentations include:

- Garfield Young, PhD. – “Curriculum and Pedagogical Developments in Surveying and Geomatics”, October 18, 2013
- Keniel Roberts – “A comparative analysis of online processing facilities for GNSS surveys” October 18, 2013
- Valentine McCook – “The evaluation of the challenges to first registration in Jamaica”, November 29, 2013
- Alvin Clarke – “Post Incident Analysis on the Jamaica Fire Brigade Emergency Operations in KSA Area using GIS, LICJ”; Technical Forum UWI”, November 2013

Mr. Laurence Neufville, Programme Director- M.Sc. Built Environment-

- Mr. Neufville presented a paper at 2014 ESRI

conference in San Diego California, USA. July 201, titled “*Wind Farm Site Suitability Selection Using multicriteria analysis and spatial modelling:*”

Dr. Carol Archer – Dean

- Jasneth Asher Mullings; Michelle McCaw-Binns; Carol Archer; Rainford Wilks “Gender differences in the effects of urban neighborhood on depressive symptoms in Jamaica” *Revista Panam Salud Publica* Vol. 34 No. 6 Washington Dec. 2-13.

Faculty of Education and Liberal Studies

Professional Development/Visibility/Conferences

Attendance:

- Dr. Cynthia Onyefulu and Mr. Michael-Anthony Dobson-Lewis attended and presented papers at the Ministry of Education/Jamaica Teachers’ Association’s (JTA’s) Education Conference held April 2 – 4, 2013 at the Ritz Carlton Golf & Spa Resort, Montego Bay, St James. The theme of the conference was ‘Assessment in the classroom: A tool to promote quality teaching and learning.
- Dr. Carmel Roofe-Bowen, Dr. Hope Mayne, Miss Jill Becker, Mr. Richard Samuels and Mr. Courtney Palmer attended and presented papers at the biennial conference of the UWI Schools of Education at UWI, St. Augustine in Trinidad and Tobago, April 23-25, 2013. .
- Dr. Cynthia Onyefulu and Mrs. Grace Hughes attended the 7th Annual National Student Teaching and Supervision Conference organized by Slippery Rock University of Pennsylvania from April 29 to May 1, 2013
- Mr. Michael-Anthony Dobson-Lewis was selected as a nominee for the 2013 President’s Award for Instructional Excellence.
- Home Economics educators from the Faculty of Education and Liberal Studies represented Jamaica at the Caribbean Association of Home Economists Inc. 20th Biennial Conference in Barbados on April 7-10, 2013
- Ms. Mariana González’ article “Use of Blogs and Social Networks for Foreign Language Learning in a University Context” was accepted for publication in June 2013 by the *Journal Núcleo* from the University of Venezuela.
- Mrs. Eraldine Shakespeare attended a seminar on “*Modern distance education for officials from developing countries*” from August 13 – September 2, 2013 at Jilin University, Changchun, China.
- Dr. R.A. Lewis presented a paper titled “Apprehending the Global-urban Text: Creole Perspectives on the Role of Audience Reception in Conceptualising Translation” at the Perspectives from ‘Other’ Cultures Translating Culture conference held at Goldsmiths, University of London from September 20 - 22 Dr. R.A. Lewis published a review of “The African-Caribbean Worldview and the Making of the



Caribbean Society” edited by Horace Levy in the *Journal of Education and Development in the Caribbean* Vol. 10, no. 2, 2010, pp. 132-139

- The following staff lecturers made presentations at the Teachers’ Colleges of Jamaica/ Jamaica Teachers’ Association Inaugural Research Conference held at the Hilton Hotel, Montego Bay from October 23-25, 2013. The theme was “Fifty Years of Teacher Education: Lessons for the 21st Century Educator.”
- Dr. Hope Mayne and Dr. Carmel Roofe -Bowen presented a paper entitled “We a “plebs”: Teacher educators transitioning beyond established colonial roles in the workplace”
- Dr. Tom Amonde and Mr. Stephen Wallder presented on “University matriculation and student progress in economics and related courses at university level: Implications of what we have learned from the 2009 – 2013 cohorts in the past 5 years.
- Dr. Cynthia Onyefulu and Dr. Carmel Roofe-Bowen presented on “Characteristics and experiences of in-service teachers on the use of online/blended learning at a tertiary institution in Jamaica
- Stewart-McKoy, M. (2014). “Digitize me”: Generating e-learning profiles for media and communication students in a Jamaican tertiary-level institution. *Journal of Educators Online*. 11(1). <http://www.thejeo.com/Archives/Volume11Number1/StewartMcKoy.pdf>
- Stewart-McKoy, M. (2013). “Beautifying the beast”: Customising online instruction in a writing course for Jamaican tertiary-level students. *Studies in Self-Access Learning Journal*. 4(3), 157-174. <http://sisaljournal.org/archives/sep13/stewart-mckoy/>
Mr. Warrick Lattibeaudiere’s article “*The Art of Storytelling through Poetry: Telling the Tale of the Rebel Woman in Poetic Lines*” was accepted for publication by the Caribbean Quarterly Journal.

Faculty of Engineering and Computing

Journal/Article Publications

Books and Book Chapters

- Kavian O. Cooke, (2014) *Chapter 13: Electrodeposited Nanocomposite Coatings: Principles and Applications Nanotechnology Science and Technology Publisher Nova Science ISBN 978-62948-569-0.*

Journal Publications

- Kimroy Bailey, Dave Muir, Therese Chambers (2013) *Offshore Wind Farm as Jamaica’s possible Primary Source of Renewable Energy.* *Journal of Arts Science and Technology*, Volume 6, University of Technology, Jamaica
- Kavian O Cooke, (2013) Tahir I Khan, Gossett D Oliver, *Diffusion Brazing of Al6061/15 Vol. Pct Al2O3p*

Using a Cu-Sn Interlayer Metallurgical and Materials Transactions B, Volume 44, Issue 3, Pages 722-729

Conference Papers

- Rowe, K & Campbell, P. *Numerical Analysis of Multi-bed activated carbon/methanol absorption Refrigeration System with allowance for Dynamic Pressure Variations.* IIR Conference on Sustainability and the Cold Chain Conference 2013, Twickenham, London, UK.
- Cooke, K., Khan, T. & Oliver, G. (2013) *Diffusion Brazing of Al6061/15 Vol. Pct Al2O3p Using a Cu-Sn Interlayer* Metallurgical and Materials Transactions B, Volume 44, Issue 3, Pages 722-729
- Kavian O. Cooke, (2014) *Chapter 13: Electrodeposited Nanocomposite Coatings: Principles and Applications Nanotechnology Science and Technology Publisher Nova Science ISBN 978-62948-569-0*

School of Computing

Journal/Article Publications

- Thorpe Dr. Sean, Tyrone Grandison, Arnett Campbell, Janet Williams, Khalilah Burrell, Indrajit Ray, Towards a Forensic-based Service Oriented Architecture Framework for Auditing of Cloud Logs. IEEE 2013 Services Workshop on Security and Privacy Engineering (SPE2013), Santa Clara, CA, USA. June 2013.
- Donaldson, O., Duggan, E. W., & Maitland, N. A. (2013). Using a Design Science Approach to Create and Evaluate a Social Media Crime Reporting Tool in a Developing Country: Case Jamaica.
- Maitland, N., Barclay, C., & Osei-Bryson, K. M. (2013). A Value Focused Thinking (VFT) Analysis to Understanding Users’ Privacy and Security Dynamics in Social Networking Services.
- Bradford, J., Myers, A., Thompson, C., & Barclay, C. (2013). Evaluating the Performance of Government IT Projects in the Caribbean: Beyond the Traditional Approach.
- Barclay, C., & Logan, D. (2013). Towards an Understanding of the Implementation & Adoption of Massive Online Open Courses (MOOCs) in a Developing Economy Context.
- Dennis, A., Jones, R., Kildare, D., & Barclay, C. (2014). A Design Science Approach to Developing and Evaluating a National Cybersecurity Framework for Jamaica. *The Electronic Journal of Information Systems in Developing Countries.*
- Barclay, C., & Osei-Bryson, K. M. (2012). An Analysis of Students’ Perceptions and Attitudes to Online Learning Use in Higher Education in Jamaica: An Extension of TAM.



Faculty of Science and Sport

Publications, Conferences and Workshops

Two peer-reviewed publications were reported for the period under review, as well as numerous conferences and workshops during the period (see below).

Peer-reviewed Scientific (Journal) Articles reported for April 2013 – March 2014 (UTech Faculty in bold)

- **Buckley, Winston**, Long, H., & Pererac, S., A Jump Model for Fads in Asset Prices under Asymmetric Information, European Journal of Operational Research, 2013, details not available
- Mohammed Bakir and **Colin Gyles**, “Molecular sensing behavior of the first molybdenum compound of di-2-pyridyl ketone-p-nitrophenylhydrazone (dpknph), [Mo(CO)₄(dpknph)]”, Journal of Spectroscopy and Dynamics, 2014, vol. 4, pp.18

School of Graduate Studies, Research and Entrepreneurship

The article, “**Structured Research Management in Action: A Review of Recent Experiences at the University of Technology, Jamaica**”, co-authored by Dr. Paul Ivey, Dr. Ruth Potopsingh, Mr. Martin Henry, and Prof. Gossett Oliver, was published in the Journal of Art Science and Technology. Vol. 6:74-82 (2014)



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