

Vice-Chancellor's Award for Excellence Teaching



Professor Jonas Addae



“Dr Addae made Physiology enjoyable and made the subject understandable. No one sleeps during his class.”

This encapsulates the overwhelmingly positive response of Professor Addae's students in the Faculty of Medical Sciences at St Augustine.

One of the first winners of the *Guardian Life Teaching Award* in 2000, his teaching ability has been recognized by his peers as well as undergraduate and postgraduate students. His teaching philosophy seeks to generate in students the passion to learn new information using an enquiry-based teaching method. He believes that in the professional disciplines of medical sciences, students are motivated to learn when they are challenged with questions that they perceive as relevant to their future professional competence. Students will engage in active self-directed learning out of curiosity. His approach is one in which students generate most of the relevant questions themselves rather than being given the questions by the lecturer. His lectures include a review session of the previous lecture, class discussions of any problems identified during the review and “pair-think” breaks during which pairs of students work on questions for two minutes and the answers are discussed immediately afterward. Students' feedback on this method has been positive.

Here are some of the students' comments:

“The presentation was easy to follow and understandable and also engaging. Use of quizzes after each session enabled me to test my understanding of the various topic areas – to note my strong and weak areas”

“I like that the lecturer kept my attention in classes as well as activities that made me participate in class.”

“The lecturer was inspirational and successfully encouraged learning.”

At the graduate level Professor Addae has taught Physiology seminars for students in the DM Psychiatry and DM Ophthalmology programmes.

He has co-authored the revised new edition of *Introduction to problem-based learning*. This manual, which is used by both staff and students, provides a systematic approach to problem-based learning.

He has also conducted training sessions on Problem-based learning for first year students and new members of academic staff.

First year learning skills programme

A medical doctor and neuroscientist by training, Professor Addae has special interest in the principles of learning and memory which have extended naturally to his passion for teaching and learning. Over the past ten years Professor Addae has conducted Learning Skills sessions for first year students in the Faculty of Medical Sciences at St Augustine. This is a voluntary non-credit course.

The course consists of:

- The neurobiology of information acquisition, storage and retrieval
- Understanding and effective use of one's personal learning style to facilitate knowledge acquisition and retrieval.
- Speed reading methods using metacognition principles and training of the students' eyeball movements to increase visual span and reduce the frequency of eyeball pauses during reading.
- Effective note taking that is consistent with the students' natural brain learning and retrieval processes.

This course is a testament to Professor Addae's commitment to student learning and is always well attended.

The 5 phase learning system

Professor Addae's latest contribution to the teaching programme at St Augustine is his formulation of a 5 Phase Learning System which was published in the journal *Medical Teacher* in 2012. The 5 Phase Learning System aims to make the student: “a critical and creative thinker, problem solver, team player, lifelong and self-motivated learner”; these are important attributes expected in the “distinctive UWI graduate” as stated in the UWI strategic plan. The learning system uses practical scenarios and has three identifiable mapping phases and two question formulation phases. The key to the learning system is the questioning phases when students learn to ask important questions about the scenario/case. Professor Addae believes in the statement by Albert Einstein:

“If only I had the right question . . . if only I had the right question; . . .the formulation of the problem is often more important than its solution.”

Research

Professor Addae has published widely on his primary research areas as well as topics on medical education.

His main foci of research are:

- Developing a new direction in understanding and managing pain (especially migraine headaches) using the brain's own powerful pain-suppressing mechanisms.
- The mechanisms of chronic non-communicable diseases of the nervous system e.g. dementia, stroke, epilepsy, and new treatment modalities that target specific sites on nerve cells.

He is a member of several learned societies e.g. Society for Neuroscience of USA, American Physiological Society. He has held executive positions in the Caribbean Academy of Science and the Caribbean Brain Research Organization.

The sequence of activities in a 5-Phase Learning System: 3 Mapping phases (M1, M2, M3) and two questioning phases (Q1, Q2). The most important phases are Q1 and Q2 when students learn to ask important questions.



Vice-Chancellor's Award for Excellence Research



Professor Simon Mitchell



Professor Mitchell has developed a remarkable research career in the Geological Sciences over the past eighteen years. This research has rewritten the geological profile and added major new knowledge on the geology of Jamaica and the region. His research has had beneficial application in several areas in Jamaica's economic development as seen in:

- The North-South link of Highway 2000
- Oil exploration
- River sand mining
- Defining the boundaries of The Cockpit Country

Within the Caribbean he has undertaken oil exploration for the Government of Curaçao as well as oil exploration companies in the Caribbean

His groundbreaking work on the stratigraphy of Jamaica has led to new knowledge of the geology of the island and should culminate in the production of a new series of geological maps of Jamaica.

Research on the Cretaceous geology of Central Jamaica undertaken by Professor Mitchell and his graduate students has led to a new understanding of the geological history of the island.

Collaboration with colleague researchers on the geochemistry of volcanic and metamorphic rocks in Jamaica has established where and under what conditions these rocks formed and resulted in the development of a new model for the evolution of Jamaica.

Professor Mitchell has undertaken research on rudists, an extinct suborder of bivalves which are among the most important fossils in the Cretaceous of the Caribbean-Central American region. One of the outcomes of this research has been the assembly of an extensive collection from Jamaica, Puerto Rico, Trinidad and Texas. These are housed in The UWI Geology Museum at Mona. Additionally Professor Mitchell has been able to forge links with several international museums including the Smithsonian, the American Museum of Natural History, The Texas Memorial Museum, Naturalis (The Netherlands) and the Natural History Museum (London). In 2011 the Ninth International Congress on Rudists was hosted at The UWI Mona.

In recognition of the 150th anniversary of the first Geological Survey and the 50th anniversary of the establishment of the Department of Geology at The UWI, Professor Mitchell has been researching the historical development of the discipline in the region, including a biography of James Gay Sawkins, considered the father of Caribbean Geology.

In the past five years Professor Mitchell has supervised four masters' theses and one doctoral dissertation as well as two research fellows. His publication record for the period includes

- Nine edited volumes
- Thirty eight research papers
- Thirty-five presentations.

In addition he has reviewed numerous papers for international journals among them *Palaeontology*, *Journal of Paleontology*, *Journal of the Geological Society of London*, *Cretaceous Research* and *Caribbean Journal of Science*.

Professor Mitchell is

- Permanent member of the Standing Committee of the Caribbean Geological Conferences
- Member of the Scientific Committee of the International Rudist Congress
- Chairman of the Commission on Jamaican Lithostratigraphy
- President of the Geological Society of Jamaica

He has appeared on local radio and television. He is the recipient of:

- The Gleaner Honour Award for Science and Technology, 2011.
- Faculty of Pure and Applied Science Award, 2011
- The Chubb Award, Geological Society of Jamaica, 2013

Select list of publications 2009-2013

- Götz, S. and S. Mitchell. 2009. *The *Laluziaarmini* (gen. et spec. nov.) ecosystem: Understanding a deeper-water rudist lithosome from the Early Maastrichtian of Mexico*. *Facies* 55: 539-51.
- Mitchell, S. F. 2009. The Cretaceous crinoid *Uintacrinussocialis* from Jamaica and its significance for global correlation. *Geological Magazine* 146: 937-40.
- Hastie, A. R., A.C. Kerr, I. McDonald, S. F. Mitchell, J. A. Pearce, M. Wolstencroft and I.L. Millar. 2010. Do Cenozoic analogues support a plate tectonic origin for earth's earliest continental crust? *Geology* 38: 495-98.
- Mitchell, S. F., S. James, R. Ramsook and M. Phillip. 2012. Mollusk Shells. In: *The Taino settlement at Guayguata: Excavations in St Mary Parish, Jamaica*. eds. P. Allsworth-Jones and K. Wesler. 82-107. Oxford: Archaeopress.
- Puckett, T. M., J. P. Colin and S. F. Mitchell. 2012. New species and genera of Ostracoda from the Maastrichtian (Late Cretaceous) of Jamaica. *Micropaleontology* 58 no.5: 397-455.
- Mitchell, S. F. 2013. Stratigraphy of the White Limestone of Jamaica. *Bulletin de la Société Géologique de France* 184 nos.1-2: 111-18.
- Mitchell, S. F. and S. James-Williamson, eds. 2013. Rudists 2013. Papers presented at the Ninth International Congress on Rudist Bivalves, 18th to 25th of June 2011, and selected other papers. *Caribbean Journal of Earth Science* 45.
- Mitchell, S. F. 2013. The lithostratigraphy of the Central Inlier, Jamaica. *Caribbean Journal of Earth Science* 46: 31-42.
- Mitchell, S. F. 2013. Revision of the Antilocaprinidae Mac Gillavry (Hippuritida, Bivalvia) and their position within the Caprinoidea Orbigny. *Geobios* 46: 423-46.
- Mitchell, S. F. 2013. First record of a Middle Cenomanian caprinuloideid rudist (Hippuritida, Bivalvia) from Montana, USA, and its geographical and stratigraphical significance. *Cretaceous Research* 46: 59-64.
- James-Williamson, S.A., S.F. Mitchell and R. Ramsook. 2013. Tectono-stratigraphic development of the Coastal Group of south-eastern Jamaica. *Journal of South American Earth Sciences*. 50: 40-47.

*Vice - Chancellor's Award
for Excellence
Research*



Professor Marvin Reid



Born in St. Mary Jamaica, Metabolist and Clinical Nutritionist Professor Marvin Reid has distinguished himself as researcher and administrator. He received an MBBS degree (1988) and a PhD in Community Medicine (1999) from The University of the West Indies, Mona. He undertook postdoctoral studies in paediatric nutrition at Baylor College of Medicine, Houston (1998 -2000).

Professor Reid began his academic career as a Medical Officer at the Tropical Metabolism Research Unit (TMRU), The UWI in 1990. After serving for 14 years at TMRU in various capacities, he was appointed director of the Sickle Cell Unit, and since 2013 has been the Director of Tropical Medicine Research Institute (TMRI). TMRI's remit is to undertake high quality research in the areas of Human Nutrition and Metabolism, Endocrinology, Genetic underpinnings of disease susceptibility and severity, Sickle Cell Disease, Child Development and Chronic Non-Communicable Diseases.

Professor Reid has earned local and international recognition for his work especially in areas related to stable isotope based metabolic research. He was a key collaborator on several National Institutes of Health (NIH) Grants and was the Principal investigator on a Regional International Atomic Energy Agency Grant, supporting Stable Isotope assessment of breast milk intake and its effects on growth in infants.

He has used non-radioactive molecules to research the body's response to illness and aging. Labelled amino acid molecules have been employed to understand how children with severe acute malnutrition utilise food. The results of this work are being used to facilitate the creation of better treatment strategies for a condition that affects some 17 million preschool-age children worldwide (UNICEF 2013).

Additionally, he has investigated how adaptive responses increase susceptibility to cardiovascular and renal diseases, as well as complications of Sickle Cell Disease.

As principal investigator or co-investigator, Professor Reid has been able to attract more than US\$5 million in grant funding; winning the Principal's award for most research funds in 2009 for "Aromatic Amino Acid Metabolism in the Pathogenesis of Kwashiorkor".

This eminent scholar has authored or co-authored over 35 peer-reviewed publications within the last three years. Reid's research interest include

- Community Medicine
- Clinical Trials
- Human Metabolism.

Professor Reid is also an associate lecturer in the Department of Community Health & Psychiatry where he is responsible for teaching and supervising undergraduate and postgraduate medical students as well as nursing students. Professor Reid has invested time in mentoring colleagues and students in Research Methods.

In addition to his teaching and administrative activities he works as a family physician providing 12 hours of private clinical care each week. He also provides consulting clinical nutritional services to the University Hospital of the West Indies.

Professor Reid has received several awards for his research. These include:

- Principal's Research Award, 2009
- Principal's Award for Best Research publication, Faculty of Medical Sciences, 2008, 2011, 2013 and 2014,
- Principal's Award for Best Researcher, Faculty of Medical Science, 2012 and 2014.

In addition to his notable research, he has served in many prominent roles such as:

- Executive Member of the Caribbean Network of Researchers on Sickle Cell Disease and Thalassemia;
- Vice President of the Medical Association of Jamaica;
- Chairman of the Caribbean College of Family Physicians, Jamaica Chapter;

Apart from research and teaching, Professor Reid is an avid athlete receiving awards for long jump and volleyball in high school and at university. As a certified grade 1 coach and referee in volleyball, he coached his alma mater's (Ardenne High School) boys and girls teams to the National Volleyball Championship in 1994.

Select list of publications 2013-2014

Green, C. O., A V. Badaloo, J. W. Hsu, C. Taylor-Bryan, **M. Reid**, T. Forrester, and F. Jahoor. 2014. Effects of randomized supplementation of methionine or alanine on cysteine and glutathione production during the early phase of treatment of children with edematous malnutrition. *American Journal of Clinical Nutrition* 99, no. 5: 105 doi: 10.3945/ajcn.113.062729 2-58.

Hsu, J.W., A. Badaloo, L. Wilson, C. Taylor-Bryan, B. Chambers, **M. Reid**, T. Forrester and F. Jahoor. 2014. Dietary supplementation with aromatic amino acids increases protein synthesis in children with severe acute malnutrition. *Journal of Nutrition* 144, no. 5: 660-66. doi: 10.3945/jn.113.184523

Rankine-Mullings, Angela E., J. M. Knight-Madden, **M. Reid**, and T. S. Ferguson. 2014. Gangrene of the digits of the right lower limb in a patient with homozygous sickle cell disease and ulcerative colitis. *Clinics and Practice* 4, no. 1: 610. doi: 10.4081/cp.2014.610

Reid, M., A. Beshlawy, A. Inati, A. Kutlar, M. R. Abboud, J. Haynes, R. Ward et al. 2014. A double-blind, placebo-controlled phase II study of the efficacy and safety of 2, 2-dimethylbutyrate (HQB-1001), an oral fetal globin inducer, in sickle cell disease. *American Journal of Hematology* 89, no. 7: 709-13. doi: 10.1002/ajh.23725

Tayo, B. O., T. S. Akingbola, B. L. Salako, C. A. McKenzie, **M. Reid**, J. Layden, I. Osunkwo et al. 2014. Vitamin D levels are low in adult patients with sickle cell disease in Jamaica and West Africa. *BMC Hematology* 14, no. 1: 12. doi:10.1186/2052-1839-14-12

Asnani M.R., A. Williams, **M. Reid**. 2013. Splenic enlargement in adults with homozygous sickle cell disease: the Jamaican experience. *Hematology (Amsterdam, Netherlands)* 18, no.1:46-9. doi: 10.1179/1607845412Y.0000000036

Frederick S, J. Frederick, H. Fletcher, **M. Reid**, M. Hardie and W. Gardner. 2013. A trial comparing the use of rectal misoprostol plus perivascular vasopressin with perivascular vasopressin alone to decrease myometrial bleeding at the time of abdominal myomectomy. *Fertility and sterility* 100, no.4:1044-49. doi:http://dx.doi.org/10.1016/j.fertnstert.2013.06.022

Morrison BF, **M. Reid**, W. Madden and A.L. Burnett . 2013. Testosterone replacement therapy does not promote priapism in hypogonadal men with sickle cell disease: 12-month safety report. *Andrology* 1, no.4:576-82. doi: 10.1111/j.2047-2927.2013.00084.x

Reid M. 2013. Nutrition and sickle cell disease. *Comptes rendus biologiques*. 336, no.3:159-63. doi : 10.1016/j.crv.2012.09.007

*Vice - Chancellor's Award
for Excellence
Public Service*



Professor Hopeton Dunn



*H*opeton S. Dunn J.P., Ph.D., M.A., B.A. (First Class Hons.), is a distinguished graduate of The University of the West Indies (1986). He is a professor in Communications and Digital Media and the current director of the Caribbean Institute of Media and Communication (CARIMAC). Professor Dunn hails from the district of Salt Marsh, in Trelawny, Jamaica. Born on April 22, 1954, he attended Cornwall College, in Montego Bay, and served as Deputy Head Boy (1973-74) and President of the Western Jamaica Sixth Formers Association for that same period. He is married to sociologist, Dr. Leith Dunn, and they are the parents of a daughter and a son.

His academic career at The UWI, which has so far spanned over two decades, commenced in 1992 when he joined the staff of Mona as Lecturer in Media and Communications. He was promoted to Senior Lecturer in 1997 and elevated to Professor in 2010. Professor Dunn has supervised research submissions for over thirty Master's Degree students and also supervised or examined ten (10) doctoral degree candidates across various campuses of The University. He has authored, edited or co-edited six (6) books, and a large number of other scholarly publications in the form of journal articles, monographs, book chapters, and conference proceedings.

Outside of The University, Professor Dunn has excelled in the area of Public Service, spanning a wide range of institutions and initiatives. He is perhaps most widely known as the Chairman of the Broadcasting Commission of Jamaica (BCJ). In this role he has offered distinguished unbroken service for over eight years. During his continuing tenure as Chairman, Professor Dunn has led an active process of institutional and financial re-structuring of the Commission, recommended significant industry policy reforms and most notably, led in an on-going regulatory crackdown against broadcast infringements and towards improved standards of civility on the Jamaican airwaves.

In recognition of his positive impact as a scholar with a record of pushing dialogue and engagement, Professor Dunn is being awarded for his exemplary Public Service roles within the Community. Regarded as an international authority on communications policies and their developmental impacts on countries of the global South, Professor Dunn has also made significant contributions at the international level in his field. He is the immediate past Secretary-General of the International Association for Media and Communication Research (IAMCR), which brings together leading communications scholars in over 100 universities from all continents. Through his previous and continuing leadership roles, Professor Dunn has enabled The UWI to be positioned at the forefront of global policy discussions, including on Internet governance, new media technologies, and ICT policy reforms.

Although Professor Dunn's engagement in public service activities has centered on academic interests, his body of contribution is also representative of involvement in University life, through his membership of several committees, and participation in national governance, through service in civic roles. Service as a judge on the selection panels for regional and national media and journalism awards is a medium which Professor Dunn has used to influence and preserve standards and promote talent in his field. He is a sought after event speaker whose opinions based on his research encourage discourse among the citizenry. Professor Dunn's strong work ethic is evidenced by his involvement across various spheres in diverse capacities.

Highlights of PUBLIC SERVICE RECORD

- 2009- Present Co-chair, National Steering Committee for Analogue to Digital Television Switchover in Jamaica
- 2009- 2012 Secretary-General, International Association for Media and Communication Research (IAMCR)
- 2008- 2011 Member, Jamaica National Commission for UNESCO
- 2007- Present Chairman, Broadcasting Commission of Jamaica
- 2006- 2007 Judge, Media Awards Panel United Nations Population Fund (UNFPA) Caribbean Office, Kingston
- 2005- Present Chairman, Advisory Committee Media Technology Institute (MTI)
- 2005- Present Member, General Council International University of the Caribbean
- 2002- Present Member; former Chairman; former Deputy Chairman National Ecumenical Committee for the Observance of Emancipation from Slavery
- 2002- 2005 Chairman, Board of Directors Creative Production and Training Centre (CPTC)
- 2001 - 2003 Chairman, Jamaica Telecommunications Advisory Council
- 1998- Present Lay Magistrate and Justice of the Peace
- 1996 - 2003 Commissioner, Broadcasting Commission of Jamaica
- 1995- 2007 Member, Board of Management National Library of Jamaica
- 1995- 2001 Judge, National Journalism Awards Press Association of Jamaica (PAJ)

Service within The UWI

- 2014 Chairman, Principal's Advisory Committee on New Academic Initiatives in Cultural and Creative Industries, The UWI, Mona Campus
- 2013- Present Academic Board Representative, Disciplinary Appeals Panel The UWI, Mona Campus
- 2013- 2014 Chairman, Vice-Chancellor's Advisory Committee on The UWI's relationship with the Caribbean Knowledge and Learning Network (CKLN) and Caribnet
- 2012- Present Panel Chair, The UWI Senate's Disciplinary Committee
- 2012 - 2014 Member (Vice-Chancellor's Nominee) Finance and General Purposes Committee, The UWI, Mona Campus
- 2006- 2007 Member, Vice-Chancellor's Task Force for the Development of the New Strategic Plan of The University of the West Indies for 2007 -2012, and elected Planning Team Leader for Branding and Marketing



Vice-Chancellor's Award for Excellence

Departmental Award for Excellence



DEPARTMENT OF LIFE SCIENCES, ST AUGUSTINE



2014 marks the inaugural year of The UWI's affirmation of an Award for Departmental Excellence. The recipient, the Department of Life Sciences (DLS), St. Augustine Campus, embodied the criteria for this honour by their collegiality, intellectualism, teamwork, innovation and responsiveness to stakeholder concerns under the following banners:

LEADERSHIP

The Department's approach to excellence epitomises the old adage that leadership is a process, not a position. In response to an external Quality Assurance review in 2007, a Curriculum Review Committee was established to address significant comments and monitor policies and procedures to ensure best practices. Subject leaders and Examination coordinators were also co-opted to ensure the functioning of internal and external quality mechanisms to meet the needs of all stakeholders.

WELL-DEVELOPED AND WELL-MANAGED PROCESSES AND PROCEDURES

Since 2009 the Department has recognised the importance of documenting processes for continuity and reflection. Subsequently, the chronicling of reviews and updates has culminated in a manual of quality assurance procedures. Within this formation, course completion components, such as outlines, manuals, setting and marking of examination papers were established along with the defined roles of examiners. Another important part of this process was the provision of student support. Accordingly, academic feedback and advisory were provided through scheduled appointments, assignment of tutors, and a permalink to the Student's Handbook.

DATA DRIVEN TO AFFECT DECISION-MAKING

The Department enlisted data heavily in the optimising of overall performance. Students were encouraged to regard DLS as their Alpha and Omega with The UWI. Pass rates and examiners' reports were analysed to highlight opportunities for improvement and inculcation in future courses. Data were also employed to ensure careful monitoring and streamlining of work load assignments to facilitate teaching, postgraduate supervision, leadership roles, and scholarly publications. An employer satisfaction survey of graduate performance was conducted to design improvements into new teaching programmes.

DRIVEN BY HIGH STANDARDS

To maintain the highest standards, an analysis of each individual biology course (55), including teaching and learning objectives, strategies, tools, and curriculum coverage were benchmarked against US and UK standards. This analysis led to a new biology degree with specialisation approved and implemented in 2013. A similar analysis of biochemistry courses led to a complete recast of the Biochemistry major and a new multi-disciplinary degree in Environmental Science and Sustainable Technology offered in 2013.

STUDENT AND STAKEHOLDER-CENTRED

Establishment of a DLS Student-Staff Liaison committee provided a needed opportunity for feedback. It also provided a forum for students to report on pedagogy, curriculum, assessment methods and other issues impacting on student-learning and the learning experience. Moreover, an employers' satisfaction survey allowed the Department to be responsive to required competencies and adjust courses accordingly. Such an approach endeavoured to augment students, national, and regional didactical, fiduciary investment in higher education.

INNOVATIVE

The DLS pioneered a blended learning approach in the MSc. Biodiversity Management and Sustainable Development programme. Taught in collaboration with Anton de Kom - University of Suriname, University of Guyana and the University of Belize, all four universities jointly award the Degree. This MSc. was developed using an Edulink programme, collaborating with the University of Oxford and benchmarking to UK standards. With 61 students currently registered, the programme has been highly successful in recruiting interests in the coral reefs of Belize and Guyana.

Another accomplishment was in the teaching of biochemistry, Years I and II. Using a learner-centric approach, students were challenged to "imagine, create, and innovate." The result was the creation of more than 100 videos demonstrating "Biochemians Got Talent." Accessed via YouTube, these videos are being used by thousands of students globally. An academic paper documented the approach and was presented at the MIT 2013 LINC conference entitled "Biochemians Got Talent: Student Assessment through YouTube Video Presentations."

RESULTS-ORIENTED

- **Financial**
In the last four years DLS has attracted over USD4million in external grant funding.
- **Research and Innovation**
 - Most Productive Research Department – UWI 2012 Award
 - Most Internationally Successful Research Project – ProEcoServ – Campus 2012 Award
 - International acclaim for research in eco systems such as the Caroni and Nariva swamps
- **Teaching**
New pedagogical approach resulted in:
 - a 46% increase in the Year 1 pass rate with students transitioning to the advanced part of their degrees
 - an increase in Year I Biochemistry from 50% to 86%; also due to a new credit course
- **Outreach**
Three successful sessions of bioblitz conducted in Tucker Valley, Arima Valley, and Nariva Swamp in 2012, 2013 and 2014 respectively. A bioblitz presents an opportunity for experts, wildlife enthusiasts and volunteers to locate and record as many biodiversity as possible in a 24-48 hours span in a rich biodiverse part of the country.

TEAMWORK

Molecules interact with signals and each other to accomplish a particular task. In like fashion, the many individuals of the DLS have interacted with each other, and listened to their various stakeholders to pave a biochemical pathway of excellence!

