



FACULTY OF ENGINEERING



NEWSLETTER

Volume 2 **FEBRUARY 2021**

FOE IN THE NEWS

UWI, NEW FORTRESS ENERGY ANNOUNCES CRYOGENICS ENGINEERING PARTNERSHIP TO INCREASE SPECIALIZED STEM CAPACITY IN JAMAICA

University now offers LNG Cryogenics Engineering course for BSc students in the Faculty of Engineering

As the government of Jamaica continues to diversify and transform the energy sector to include liquefied natural gas (LNG), The University of the West Indies, Mona (UWI) has announced a milestone partnership with New Fortress Energy to introduce a Cryogenics Engineering course in the Faculty of Engineering. This course, said UWI, is testament to the natural gas provider's longstanding commitment to developing a sustainable future for Jamaica's economy and society through LNG.

Cryogenics Engineering involves the design and development of systems and components which produce, maintain, or utilize low temperatures. Ever since the first liquefaction of air around the turn of the twentieth century, the interest of engineers and scientists on cryogenics have significantly broadened. Some of the uses of cryogenic systems include the research and development around the cure of diseases, liquid fuels (hydrogen) for space flights and liquefied natural gas (LNG). The primary aim of the course, therefore, is to introduce students to the engineering aspects and challenges of cryogenics with special emphasis on the design and analysis systems used to produce, maintain and utilize low temperatures including liquid natural gas technologies and their applications.

Professor Dale Webber, Pro-Vice Chancellor and Principal of The UWI, Mona, said the partnership is a milestone achievement for the University being the first to offer cryogenics engineering at the tertiary level in the Caribbean. "With LNG being the future of energy, this is no doubt a milestone achievement for The UWI Mona in being the first tertiary institution in the Caribbean to offer a cryogenics engineering course for BSc engineering students."

Webber added, "We have enjoyed a great partnership with NFE since their inception in Jamaica. In addition to scholarships and bursaries for over fifty engineering students over the past three years, we have been able to upgrade our existing Combined Heat and Power plant (CHP) through an agreement with NFE to provide LNG for the plant. This has seen us reducing our energy cost by some J\$52 million annually and improving our environmental footprint with a 16% reduction in greenhouse gas emissions, while allowing us to become energy independent. We commend New Fortress Energy for its vision and commitment to Jamaica's energy sector. Importantly, we applaud them for their unwavering commitment to building an energy sector that is fit for purpose and fit for the future and we're delighted to be part of this journey."

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New Fortress energy

New Fortress Energy has increased its annual tertiary scholarship programme from over \$10 million last year to now over \$18.8 million.

Verona Carter, VP at New Fortress Energy said; "We believe education is a fundamental right and we at NFE, through the vision of our founder, Wes Edens, are providing access to the necessary resources for these future leaders, innovators and entrepreneurs to thrive and flourish in fulfilling their highest potential. With education being the cornerstone of sustainable economic development, we are committed to supporting Jamaica on its journey to nation-building."



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The curriculum is fully funded by New Fortress Energy including all prescribed texts, lab equipment, simulation software tools and licenses plus laptops which the natural gas company donated to the Faculty of Engineering to ensure that all cryogenics students can fully access their online classes. Students will also benefit from guest lectures by NFE experts as well as summer internship programmes at the company's LNG plants in St. Catherine, Clarendon, and Montego Bay.

"We are proud of the longstanding strategic partnership that we have shared with the University of the West Indies, Mona since our inception in Jamaica. For the LNG sector to be successful and sustainable, it is not enough to simply supply LNG to any market. Educating and upskilling the next generation of LNG engineering professionals play an integral role in this journey," said Wes Edens, Chairman and CEO of New Fortress Energy.

He continues, "The introduction of this cryogenic course at the UWI also aligns with our long-term interest in creating and sustaining a Cryogenic Center in Jamaica. The UWI plays a critical role in providing world class education in Jamaica and the Caribbean and we are delighted to expand our partnership with them to ensure Jamaica is well positioned to compete in the global LNG marketplace."

In commenting on the implementation of the course, Dr. Adrian Lawrence, Dean of the Faculty of Engineering at the UWI, Mona, said; "We are extremely satisfied with the relevance and conduct of the course and we have no doubt that our students will be more marketable and competitive in Jamaica and globally. We are pleased to share that the first batch of seventeen students registered for and have successfully completed the course in semester II of the academic year 2019-2020, have all had overwhelming positive feedback. For this 2020-2021 academic year, seventeen students have again registered this semester and are already very excited about being part of the course."

Since its inception in Jamaica, NFE has invested over JA\$20 million in STEM scholarships and bursaries to students at the University and is main sponsor of the university's Mathematics Olympiad, which are all part of the company's commitment to STEM development in Jamaica at the tertiary level.

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Awards and Industry Partnerships



L-R: third left - FOE Deputy Dean, Dr. Roxann Stennett-Brown; Pro Vice-Chancellor and Principal of The UWI Mona Campus, Professor Dale Webber; Mrs. Jaqueline Burrell-Clarke of New Fortress Energy; FOE Dean, Dr. Adrian Lawrence and FOE students at the handing over ceremony of laptops.



L-R: Faculty of Engineering student awardees at the handing over ceremony of laptops.

CALENDER OF EVENTS

Semester Two—2020/2021

January 6-13	Faculties' Board of Examiners' Meetings
January 17	Semester II begins
January 18	Teaching begins
January 7-14	UWI Homecoming Celebrations
January 11-16	Graduation Ceremonies
February 26	Publication of Draft Semester II Examination Time Table
March 1-12	Centralized Mid-Semester Exams
April	FOE Awards Ceremony
April 9	Teaching ends
April 12	April 16 Review/Study Week
April 19-25	Semester Break
April 26	Examinations Begin
May 14	Examinations End
May 14	Semester II Ends
May 31	Summer School Begins

NEW GRADUATE PROGRAMME

UWI
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JAMAICA, WEST INDIES

FACULTY OF ENGINEERING
in collaboration with
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ENGINEERING & MANAGEMENT

www.mona.uwi.edu/engineering

starting September 2020

LEARN MORE

Applications now open for admission in
September 2021

For more information contact:

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Deputy Dean of Outreach, Internationalization &
Marketing

omar.thomas@uwimona.edu.jm

Staff Spotlight



Mr. Lindon Falconer; Lecturer and Head of Programme for the BSc Electronics Engineering Programme and FOE PhD candidate.

Mr. Lindon Falconer will be presenting a paper at the IEEE SouteastCon 2021 Conference. The IEEE conference will be held from March 10 – 14, 2021. His presentation will be conducted via Zoom on March 11, 2021 under the Signal and Image Processing Track. Mr. Falconer's paper will be published in the IEEE Xplore.

Paper:

Falconer, Lindon, Andre Coy and Jon Barker (2021). "Modeling the Effects of Hearing Aid Algorithms on Speech and Speaker Intelligibility as Perceived by Listeners with Simulated Sensorineural Hearing Impairment." SouteastCon 2021.

CONGRATULATIONS!

Principal's Awardee

Mr. Da-Vaugh Sanderson; Assistant Lecturer in Biomedical Engineering and FOE PhD candidate, was awarded the Principal's Award for the Best Research Publication for the 2019/2020 academic year.



FOE Student Society Corner

- ◆ **Next S.T.A.G.E. (Scholarship, Transition and General Employment) on March 4, 2021**

Overview:

The Next S.T.A.G.E. will be hosted by the VP of Internal Affairs, Ashley McPherson, in collaboration with the Faculty of Engineering and F.O.E. Alumni Association with the primary target of this event being current engineering students in need of financial assistance. This event will also be extended to sixth form students interested in pursuing Engineering at the University of the West Indies, Mona.

- ◆ **A Scholarship Database**

Overview:

A database that shows a list of scholarships available to students at all Engineering Levels.

- ◆ **MES Juggling Competition**

Though we are not physically together, the MES GCC Portfolio (co-chaired by D'Andra Holness and Okeno Donaldson) maintains its commitment to the promotion of student health and wellness. This will be done in a fun way this March, with the inaugural MES Juggling Competition. All are invited to join! There will be prizes and surprises.

Mona Engineering Society (MES) Upcoming Events

UWI **FACULTY OF ENGINEERING** **MONA ENGINEERING SOCIETY** **STEAM** **UWI STAT**

NEXT S.T.A.G.E.
Scholarship, Transition And General Employment

MARCH 4
STARTS 2 PM
VIA **Zoom**
MEETING ID: 916 1017 1707
PASSCODE: 141656

MRS. CAROLINE MAHFOOD
EXECUTIVE DIRECTOR
GRACEKENNEDY FOUNDATION

MR. RICHARD PALMER
EDUCATOR

MR. SHEVON WILLIAMS
UWI GUILD OF STUDENTS
PRESIDENT 2018/19

AND MORE

MONA ENGINEERING SOCIETY

JUGGLING CONTEST

MARCH 8-15

IT'S A CHALLENGE! :

INSTEP 15

THIGHS 30

HEAD ∞

TOP 3 WIN PRIZES!

1st to do the most (on head) will be declared winner

Video should be sent via email ~ Monaengineeringsociety@gmail.com



FACULTY OF ENGINEERING

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