

THE VESSEL

Trinidad and Tobago Member Group Newsletter

In this issue:

Message from the Chair

Highlights from the Q2

Technical Seminar: What
Chemical Engineering Trends
Mean for You

Technical Training and
Mentorship Committee:
Career Readiness Workshop
Series

Applied Research
Committee: Charting the
Course for Economic
Development

Chemical Engineering Word
Search

Position Available!

IChemE TTMG is currently
looking for a **Finance Officer** to
serve on the Management
Committee.

Persons interested in
volunteering may contact the
TTMG via email for more
information at:
[trinidadtobago.ichememember
@gmail.com](mailto:trinidadtobago.ichememember@gmail.com)

Editor: Farah Hyatali

Message from the Chair

Vashti Goorahlal

In this our mid-year newsletter, I would like to highlight the exceptional work achieved by our three committees (Technical, Training and Mentorship (TTM), Applied Research (AR) and Networking, Fundraising, Social and Recognition (NFSR)) and their commitment to the continuous pursuit of excellence in their respective chemical engineering related passions. It should be noted that these committee members have volunteered their personal time to ensure the success of the IChemE TTMG and for this we are truly grateful.



The TTM Committee (led by Natalie Jackman-Ible) continues to work very closely with the tertiary education institutions in Trinidad and Tobago, namely the University of the West Indies and the University of Trinidad and Tobago, to provide quality mentorship and training to the students. These sessions are geared towards preparing them for entering the workforce and applying their theoretical knowledge into the specific requirements of a graduate chemical engineer. The Committee is also planning to engage the IChemE TTMG with Chartership Drives for anyone who would like guidance on becoming a Chartered Engineer.

The AR Committee (led by Ryan Roper) has achieved a great deal since the beginning of the year. This committee has successfully developed research papers which easily translate into revenue generating ideas. The committee members are working in alignment with the Government of Trinidad and Tobago to utilize budgeted funds to progress these ideas into fruition. Notably, the AR committee is championing the cause and implementation of renewable energy ideas developed by our citizens! The committee is currently in the process of meeting with University and Technical Development heads to collate technical papers which have the capability of progressing further into application. The AR committee will soon engage in a national 'Call for Papers' for individuals with remarkable ideas that can be beneficial to the Trinidad and Tobago economy.

(continued on page 2)

Message from the Chair... (continued from page 1)

The NSFR Committee (led by Farah Hyatali) is enthusiastically planning the IChemE TTMG's first Annual General Meeting scheduled for October 2017. At this event, the elected positions within the Steering and Management Committees will be open for elections. I invite all IChemE TTMG members who are willing to devote their time to the advancement of the IChemE TTMG and continue/improve on the projects that have been initiated to become elected officials. This is an incredible opportunity to exclusively be a part of the progress and development of the chemical engineering community within Trinidad and Tobago. If you have questions or would like more details on a particular event/Committee, please contact the Management Team at trinidadtobago.ichememember@gmail.com. We look forward to your involvement.

Kindest Regards,

Vashti Goorahlal

IChemE TTMG Management Committee Chair

What Chemical Engineering Trends Mean For You

IChemE/APETT Joint Seminar, Q2 2017

On April 28th, 2017, the IChemE TTMG in conjunction with the APETT Chemical Division hosted a seminar entitled "What Chemical Engineering Trends Mean For You" at the Point Lisas Campus of the University of Trinidad and Tobago (UTT). This seminar was chaired by key members of the TTMG: Natalie Jackman-Ible, Trevor James, Christopher Farquhar and Samuel Sinanan.

The speakers highlighted global trends, threats, key strategies and realities that Chemical Engineers should be aware of. There was discussion on the challenges currently being faced by Chemical Engineers at varying stages of their careers, and how one could "adjust their sails" to withstand these challenges. The seminar was attended by Chemical Engineers from the upstream, midstream, and downstream energy industry, engineering service companies and academia.



Members of the audience during the seminar, "What Chemical Engineering Trends Mean For You"

Presenters, from left: Samuel Sinanan, Trevor James, Christopher Farquhar and Natalie Jackman-Ible.



Technical Training and Mentorship (TTM) Committee

Career Readiness Workshop Series

written by: De Vaughn Grant

Globally, employers look forward to graduates entering the workforce who are career-ready, having achieved the following competencies at a minimum: written & oral communication, teamwork, ethical decision-making, critical thinking and applying knowledge to real-world settings. Employer surveys indicate common shortcomings in these areas. Workshops hosted by The Technical Training & Mentorship Committee of the IChemE TTMG attempted to address employers' expectations.

Over the period Saturday 10th June – Saturday 1st July, 2017, current students and recent graduates of Chemical Engineering from the local universities were treated to Career Readiness Workshops. The workshops were progressive, interactive, engaging, practical and tailored to the typical working environment of a new graduate Chemical Engineer. Highlights were as follows:

Written & Oral Communication – Participants gained insights into effectively communicating with superiors, colleagues and subordinates. They also learned about workplace protocol and were introduced to a coaching plan that helped them to document and track their growth opportunities, progress and future course of action. Facilitator – Mr. Brian Ali.

Critical Thinking – This session involved just what it says – thinking! Participants were provided with pre-reading piece, engaged in a dialogue over the approach and issues arising from an environmental upset. This was another opportunity to hone communication skills, while expanding and deepening the level of thinking and analysis applied to communication and problem resolution. Facilitator – Mrs. Natalie Jackman Ible

Teamwork – Participants were privileged to have the guidance and support of senior executive coaches and managers in two team simulations that quite effectively demonstrated the critical elements of teamwork, The session also highlighted how communication affects teamwork. Facilitator – Mr. Vindar Ragbir

Application of Knowledge – In an exercise that extended over the final two weeks, participants were required to integrate and apply all of the skills addressed in the previous workshops, and incorporate their technical knowledge into troubleshooting a real process plant problem. They were challenged to engage and exchange ideas with new group members in remote locations, analyze the issue, develop and present their approach to their peers and other invited guests from the Chemical & Process Engineering Fraternity. Facilitator – Mrs. Natalie Jackman Ible

The culmination of the workshops took the form of a spirited and well-received career guidance interaction with a senior operations manager in the industry, Mr. Ian Walcott. Mr. Walcott shared his own career adventure and highlighted the skills and abilities that would prove useful in the quest for employment in our present economic climate.

Other key contributors were Mr. Trevor James and Mr. Christopher Farquhar, who gave critical advice on the realities of being successful as a Chemical Engineer. Participants were issued Certificates of Participation and have provided feedback that are extremely positive and appreciative.



Natalie Jackman-Ible (TTM Lead) with participants in the Career Readiness Workshop Series.

Applied Research (AR) Committee

Charting the Course for Economic Development

written by: **Shannon Pustam**

Trinidad and Tobago's economy is principally dependent on the oil and gas sector. This dependence results in continuous financial exposure to adverse external shocks and an environment of macroeconomic instability. The country, therefore, is faced with the significant challenge of economic diversification to reduce the economy's dependence on one sector. The process of severing our reliance on hydrocarbon sales as our primary source of income is no easy feat and will require a multi-disciplinary, professional and dedicated approach. As such, IChemE TTMG's Applied Research Committee (ARC) has conducted its own research and initiated discussions with key groups across Trinidad and Tobago to focus on three (3) strategic research areas that are likely to aid the country's short term to medium term economic development:



Renewable Energy



Energy Efficiency



Food & Agriculture
Sustainability

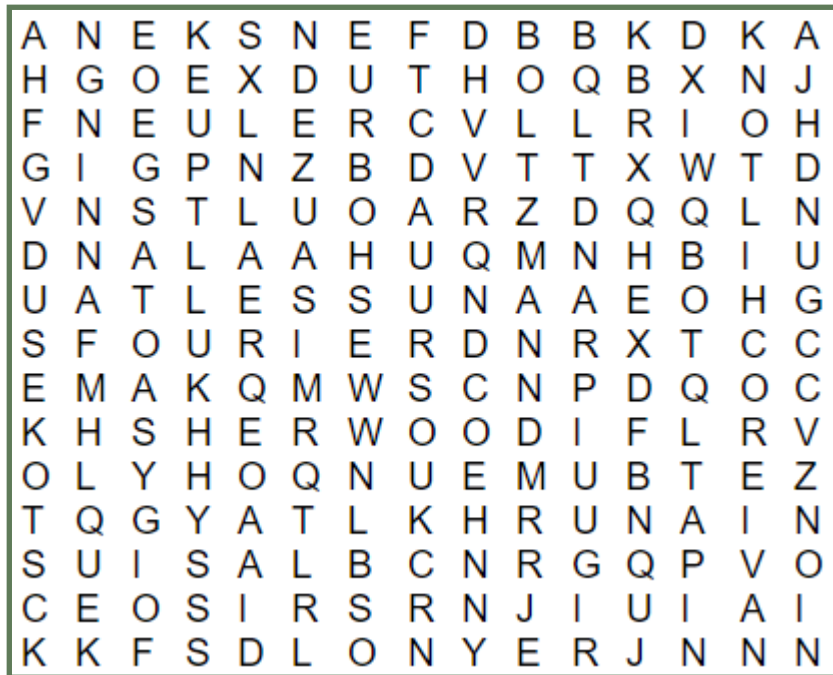
To date, the ARC has made significant strides through strategic alignment with the Economic Development Advisory Board (EDAB) of Trinidad and Tobago (See: www.edab.org.tt) and is currently a contributor to the Board's planning and definition of Vision 2030 – a strategic plan for the Economic Development of Trinidad and Tobago.

The ARC has also engaged key stakeholders, including local universities, to aid in the identification of research ideas and to progress the technical aspects of these ideas to a level where they can be endorsed as technically feasible. Additionally, our committee has engaged other stakeholder organizations that can assist our researchers develop their business acumen which can lead to the monetization of ideas determined as probable for development into scalable products and/or businesses.

During the third quarter of 2017, the ARC plans to publish its call for proposals of research ideas that can become scalable products or businesses across IChemE TTMG's social media channels including Facebook and LinkedIn. While our focus will be on products or businesses that impact Renewable Energy, Energy Efficiency and Food and Agricultural Sustainability, all ideas will be accepted and screened for technical and economic viability.

The winning proposals will be entitled to exposure of their ideas to a number of bodies through sponsorship from our stakeholders and access to business plan development experts and even an audience with local investors. The ARC will work closely with the project innovators to provide mentorship and guidance while they develop the technical feasibility of their ideas. The aim of the committee's work is to contribute to the goal of sustainable diversification of the Trinidad and Tobago economy over the short to medium term.

Word Search



BERNOULLI

BLASIUS

BOLTZMANN

CHILTON

COLBURN

ERGUN

EULER

FANNING

FENSKE

FOURIER

HAALAND

NAVIER

NUSSELT

PRANDTL

RAOULT

REYNOLDS

SCHMIDT

SHERWOOD

STOKES

Contact Us



IChemE Trinidad and Tobago Member Group

www.linkedin.com/groups/8543255



IChemE Trinidad and Tobago Member Group

www.facebook.com/IChemETTMG/



trinidadtobago.ichememember@gmail.com

trinidad-tobago@ichememember.org