



Trinidad and Tobago
Section

ATCE

SPE >> ATCE
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Welcome to Dallas



TOP DRIVE

SPETT NEWSLETTER

**SEPTEMBER 2018
ISSUE**

**2018 SPE ACTE
Petrobowl Championship
Tunapuna Secondary School Career Fair**





SPE highlights new Strategic Plan at SPE ATCE

On September 24th - 26th, more than 8,100 E&P professionals met in Dallas at the 94th Annual Technical Conference and Exhibition. Networking, Short courses, the Exhibition and Petrobowl were some of the usual elements of the conference.

For the first time, one of our student chapters, the University of the West Indies qualified for the ATCE Petrobowl finals where they competed against 31 other student chapters globally. Even though

they did not win, they made it to the 2nd round of the qualifiers. It was indeed a job well done and congratulations again to the team. For those who sponsored and contributed to sending our students at the SPE ATCE this year, thank you again.

Another element that was highlighted at the ATCE event was the new Strategic Plan which was adopted by SPE in March 2018. Our four strategic goals include: lifelong learning; knowledge transfer; membership engagement as well as professional pride. SPE core values embrace: technical excellence; thinking globally; providing value to members; volunteerism as well as stewardship for the long term. To access the full strategic plan, visit <https://www.spe.org/about/docs/strategicplan.pdf>

Our section would continue to meet these goals and fulfill our mission. Our technical meetings, student support and dues waiver are just some of the ways in which we achieve these goals.

In 2019, we plan to offer another element which would ensure technical excellence and provide increased value to members. Make sure and renew your membership and stay connected with SPE.

Happy reading and stay tuned for all our upcoming events!

Ayasha Nickie
Section Chair
SPETT 2017-2019

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2018 SPE Annual Technical Conference and Exhibition

by Rachel Jagdip & David Whittier

The 2018 SPE Annual Technical Conference & Exhibition held in Dallas, Texas from 23rd September to the 25th September 2018 was attended by over 8,100 E&P professionals. The three days of learning, networking, and collaborating on the collective goals of the industry was also attended by some of our SPETT board members including, SPETT Chair, Ayasha Nickie, Director of New Opportunities, Cassandra Dewan and Technical Chair, David Whittier.

ATCE provided a comprehensive review of technical topics related to industry productivity, efficiency, and safety. Along with the extensive technical program of 300+ papers and presentations, ATCE also included one of the largest displays of E&P products and technologies with over 360 companies representing 16 countries showcased at the conference. Various activities facilitated networking and forging relationships across SPE Sections.

Saturday 22nd - SPE Section & Student Officers Social at The Happiest Hour, Downtown Dallas was attended primarily by Student officers and SPEI staffers.



Sunday 23rd - SPE Section & Student Officers Leadership workshop led by the SPE Sections and Student Chapters Manager on leadership. The workshop included a session on leadership, 30 ideas in 30 minutes, SPE Officers 101 (Tools & Policies), breakout sessions, idea swap, revised Strategic plan 2018 – 2019 with Q&A, strategic priorities, events promotion, supporting students, and retention and engagement.



Monday 24th - The opening of the exhibition floor together with the Chairperson's Luncheon provided ample opportunities for networking with exhibitors and attendees. Kuwait Oil Company presented their Strategic plan 2040 to achieve production of > 3MMBOE, their continuous Contractors Evaluation process, along with the development of the Kuwait International Petroleum Research Centre.

The Chairperson's Luncheon keynote speech was delivered by ATCE General Chairperson and CEO of XTO Energy on "Accelerating Value Capture from the Digital Transformation". The day ended with a Welcome Reception on the Exhibition floor.

Tuesday 25th - SPE Latin America and Caribbean Region Officers meeting chaired by our Regional Director Cesar Suarez with representatives from Suriname, Trinidad and Tobago, Columbia and Brazil.

At the Annual Reception and Awards Banquet notable SPE members were honored for their outstanding achievement as Distinguished Members and for Distinguished and Public Service. Also included were Technical, Honorary Membership and Young Member Outstanding Service awardees.

Wednesday 25th – President's Luncheon was chaired by SPE President 2018, Darcy Spady. The incoming SPE President, Sami Alnuaim, was presented with a white 10-gallon Stenson hat from Canada in recognition of ATCE 2019 being hosted in Calgary, Alberta and gave his State of the Society Address with focus on Energy Sustainability.

President's Awards for Section Excellence were distributed at the luncheon with 4 of the 22 award being presented to the Latin America and Caribbean Region – Brazil, Macae, Lima and Columbia (left to right in the picture below).



The investment to attend the ATCE is one that is worth making, whether for boosting business on an international scale, improving professional skills or simply networking, it was an extremely memorable and rewarding experience.

2018 PetroBowl Championship

by Cassandra Dewan

The PetroBowl Championship was held during the SPE Annual Technical Conference and Exhibition on Monday 24th September 2018 at the Kay Bailey Hutchison Convention Center in Dallas. The SPETT/University of the West Indies Trinidad and Tobago PetroBowl Team was among the thirty-two teams qualifying for this prestigious competition. The excitement and nerves on the morning of the event was felt by everyone in the ballroom and all the teams had their eyes on the first prize.

In the first round, UWI went up against the University of Mines and Technology. The competition was stiff and the scores were close but in the end UWI won and made it to the second round.

In the second round the team went up against Louisiana State University and unfortunately, got knocked out in this round.

This was Trinidad and Tobago's first time competing at the PetroBowl Championship and congratulations goes out to our team Paul Singh (Captain), Aidan Rajpaul, Adriana Maharaj and Kadija Hassanali for representing our country and placing in the top sixteen.



A heartfelt thank you to all our sponsors (namely Touchstone Exploration Trinidad Limited, Tucker Energy Services, Schlumberger, Pepe's Group Limited and UWI Faculty of Engineering) and all who supported fun-raising ventures as the team would not have been able to participate in the Championship.



SPETT would also like to congratulate the teams that placed in the top four which included the Universidade Federal Do Rio De Janeiro from our Latin America and Caribbean region. It was quite an experience watching these teams battle for the championship title and this event was definitely a highlight of ATCE.



Champions: Universidad Nacional Autonoma De Mexico

2nd Place: Louisiana State University

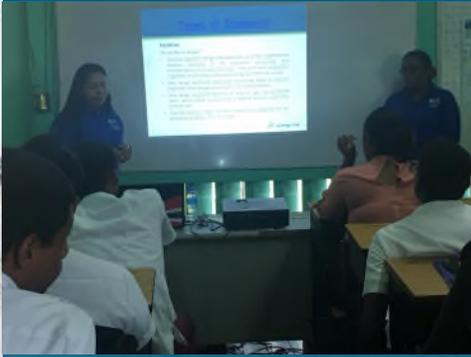
3rd Place: The University of Texas at Austin

4th Place: Universidade Federal Do Rio De Janeiro



SPETT will be holding a talk on Friday 19th October 2018 at UWI where our 2018 PetroBowl Team and Board Members will discuss our 2018 PetroBowl and ATCE experience as well as plans for the 2019 PetroBowl and ATCE.

Tunapuna Secondary School Career Fair



On Friday September 21st, 2018 Tunapuna Secondary School hosted a World of Work/Career Day for fifth form students at the school's compound. A joint presentation was made by three members of the Society of Petroleum Engineers - Celia Garcia-James, Jenece Isaac, Kabir Geerah and a Ministry of Energy and Energy Industries representative, Hannibal Ayinka. The team interacted with two groups with an average of 40 students per group and enlightened them on the various careers in Oil and Gas and Renewable Energy Industries and the necessary requirements to pursue those careers.

The joint presentation provided a snapshot of the exploration and production of hydrocarbons and the hydrocarbon value chain. It also provided the students with insight into the importance of the Oil and Gas Industry in their everyday lives, not only in the provision of fuel for transportation and power, but in the manufacture of plastics, agrochemicals and everyday products that they use. Brief descriptions of career paths in the Energy Industry for students interested in Engineering, Policy, Research and Development, Robotics and



non-scientific support areas for the industry including Business Administration, Law, Finance and Accounting also formed a part of the conversation with the students.



The MEEI Representative, Mr. Ayinka spoke to the students on the emerging field of Renewable Energy and the options that are available for the industry locally and regionally. This engaging talk elicited positive feedback from the students on their concern about global issues such as climate change, greenhouse gas emissions and their effect on the environment. The students were very appreciative of the talk and left excited to consider new options to work in the industry.

This outreach represents an important part of the SPE's mandate of educating the general public on the Energy Industry. The SPETT continues its outreach to encourage students to enter the Energy Industry as one of the most sustainable and global industries with challenging and fulfilling jobs.

ANNOUNCEMENTS



Recap of ATCE and PetroBowl 2018

Thinking ahead: Planning for ATCE and PetroBowl 2019

Panel discussion by the PetroBowl 2018 Team:

Aidan Rajpaul
Adriana Maharaj
Kadija Hassanali
Jared Walker
Paul Singh

Date: Friday 19th October 2018

Time: 5:30 pm to 7:00 pm

Venue: Geoscience Building, University of the West Indies, St. Augustine

Light refreshments will be provided



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UPSTREAM HIGHLIGHTS

Local & Regional

BHP Billiton shared during its 2018 June 30th year end review its operational success at the Victoria-1 well drilled in Block TTDA5 deepwater offshore Trinidad, greatly indicating hydrocarbons in the deepwater off Trinidad .

DENOVO ENERGY will begin gas production in 2018 from its Iguana field after finishing a three-well development campaign in their owned and operated in Block 1(a) offshore Trinidad in the Gulf of Paria .

VENEZUELA for the first time in 20 years plans to hike the price of gasoline for a 15-day test stage in the coming months along with a new payment scheme to prevent gasoline smuggling. Also included in the plans are currency devaluation and pegging the new bolivars to the El Petro cryptocurrency. Gasoline prices in Venezuela continue to be the cheapest in the world due to subsidies.

A commission has been setup to reorganize the state operator PDVSA in the coming few months. Oil production dropped to 1.278 million bpd in July 2018, according to secondary sources at OPEC, with Venezuela claiming recently that plans are afoot to raise oil production.

GUYANA A Canadian exploration company CGX Energy intends to drill its new exploration well, Utakwaaka, into the Corentyne Block of Guyana in November 2019. CGX Energy has 100 per cent ownership in the block.

The largest law firm in Guyana, Hughes, Fields & Stoby has partnered with Access Point to become the first Guyanese legal and business protocol firm to establish a Houston, Texas. The establishment of Hughes, Fields and Stoby USA PLLC recognizes the emerging importance of establishing business relationships between Guyana and Houston.

FRENCH GUIANA The French Oil and Gas major Total began steps to drill an exploration well in French Guiana, adding to the new wave of exploration being done in the southern Caribbean.

CUBA Melbana Energy has secured all required approvals to drill the first exploration well, Alameda-1, in Cuba on its wholly-owned Block 9 production sharing contract. Civil works at the drilling rig pad will start when a partner has been selected to join in on a preliminary farmout agreement basis for this the highest of the prospects in Block 9. Negotiations with a selected rig contractor are underway for possible spud dates in December 2018 or April 2019. Approvals for a second well in the planned campaign, Zapato-1, were “well advanced” and best estimated prospective resource across all four objectives to be intersected by Alameda and Zapato were placed at 236 million barrels.

UPSTREAM HIGHLIGHTS

International

OPEC crude production rose in August to the highest level this year as a recovery in Libyan output helped to offset a cut in Iranian exports due to U.S. sanctions. The group's 15 members, which now include the Republic of Congo, collectively produced 32.74 MMbpd last month, an increase of 420,000 bpd from July. OPEC and its allies agreed in June to increase combined output by 1 MMbpd to meet consumer demand and prevent a sharp rise in prices. That followed U.S. President Donald Trump urging the group to act to prevent further rises.

HALLIBURTON has announced its XtremeGrip liner hangers have been installed to a depth of 30,924 ft. in the Gulf of Mexico. Hess-operated Stampede deep-water development, setting a record depth for the XtremeGrip system. To facilitate the completions, Halliburton installed a total of 37 XtremeGrip expandable liner hangers across seven wells to date, with no liner-top leaks or remedial work required. The challenge for Halliburton on the Stampede project was to isolate multiple hydrocarbon-bearing sands across the drilling and production liners with cement. The XtremeGrip system's unrestricted flow path prior to setting, and its ability to rotate while cementing, provided effective and reliable isolation without costly cement remediation.

BP announced successful deployment of its Plant Operations Advisor (POA), a cloud-based advanced analytics solution developed with Baker Hughes, across all 4 of its operated production platforms in the deep-water Gulf of Mexico. The announcement comes after an initial deployment of POA proved the technology could help prevent unplanned downtime at BP's Atlantis platform in the Gulf. The technology has now been successfully installed and tested at BP's Thunder Horse, Na Kika and Mad Dog platforms – and it will continue to be deployed to more than 30 of BP's upstream assets across the globe.

TOTAL has announced a major gas discovery off the Scottish coast. The discovery, on the Glendronach prospect on the west of Shetland, has the potential to deliver about one trillion cubic feet of recoverable resources. Total drilled a 4312-metre well during exploration, with preliminary tests confirming "good reservoir quality, permeability and well production deliverability". Total's production in the UK comes mainly from fields located offshore in three major zones - the Alwyn/Dunbar area in the Northern North Sea, the Elgin/Franklin area in the Central North Sea and the Laggan-Tormore hub in the West of Shetland area. It also operates the Culzean gas field with a 49.99% interest, scheduled to start up in 2019.

ExxonMobil said it will join the Oil and Gas Climate Initiative (OGCI), a voluntary initiative representing 13 of the world's largest oil and gas producers working collaboratively toward solutions to mitigate the risks of climate change. The CEO-led organization focuses on developing practical solutions in areas including carbon capture and storage, methane emissions reductions and energy and transportation efficiency. As part of the initiative, ExxonMobil will expand its investment in research and development of long-term solutions to reduce greenhouse gas emissions as well as partnerships and multi-stakeholder initiatives that will pursue lower-emission technologies.

OPEC crude production rose in August to the highest level this year as a recovery in Libyan output helped to offset a cut in Iranian exports due to U.S. sanctions. The group's 15 members, which now include the Republic of Congo, collectively produced 32.74 MMbpd last month, an increase of 420,000 bpd from July. OPEC and its allies agreed in June to increase combined output by 1 MMbpd to meet consumer demand and prevent a sharp rise in prices.

PRODUCTION STATISTICS

JULY 2018

COMPANY	Production (bopd)
BHP Trinidad & Tobago	4,667
BPTT	6,613
EOG Resources	1,285
PERENCO	10,883
SHELL Trinidad	1,096
PETROTRIN	30,610
PETROTRIN Lease Ops	6,846
PETROTRIN Farmouts	562
PETROTRIN IPSCs	1,022
Trinity E & P	1,233
TOTAL	64,817

Monthly Average Crude Oil
Production

COMPANY	Production (mmscf/d)
BHP Trinidad & Tobago	447
BPTT	2,135
EOG Resources	425
PERENCO	30
PETROTRIN	16
SHELL Trinidad	607
TOTAL	3,660

Monthly Average
Nat Gas Production

PRODUCTION STATISTICS

AUGUST 2018

COMPANY	Production (bopd)
BHP Trinidad & Tobago	4,476
BPTT	6,958
EOG Resources	1,421
PERENCO	9,229
SHELL Trinidad	1,049
PETROTRIN	28,973
PETROTRIN Lease Ops	6,391
PETROTRIN Farmouts	602
PETROTRIN IPSCs	1,030
Trinity E & P	1,248
TOTAL	61,377

Monthly Average Crude Oil
Production

COMPANY	Production (mmscf/d)
BHP Trinidad & Tobago	458
BPTT	2,102
EOG Resources	505
PERENCO	30
PETROTRIN	16
SHELL Trinidad	546
TOTAL	3,656

Monthly Average
Nat Gas Production



by Kamlesh Ramcharitar

From 'mickey mouse' and 'mule shoes' to 'nodding donkeys' and 'black magic', the oilfield is home to some bizarrely named, but truly awesome inventions and equipment. Enter the 'Big Wind' (pictured above) which was essentially the Frankenstein child of not one, but two MiG-21 fighter jets and a T-34 tank!

The Hungarian engineers could probably be forgiven for a lack of imagination with naming their invention, as all of their creativity was channeled into making this monstrosity a reality. Rumour has it that this contraption was originally conceived to combat the nuclear, biological and chemical weapons threats of the Cold War - requiring an armoured pressure washer to wash off contaminants.

The first incarnation saw the Russians strapping a single MiG-15 engine onto a truck-bed, using it to project air and water for clearing snow and fighting fires. Their Hungarian friends later fitted the two 27,000 lb-f (each) engines to one of their spare tanks and configured six fire hoses around them. The result? More than 8,000 gallons (190 bbls) per minute are hurled at supersonic speeds of 770 mph!

Big Wind was first unleashed upon the raging Kuwaiti oilfield fires in 1991 - started by the retreating Iraqi army during their Gulf War incursion. The machine was capable of approaching a wellhead that was spewing liquid hellfire and putting the fire out in seconds with the barrage of steam and fire suppressant chemicals at its disposal.

Did you know?

The three-man crew consists of a driver, a controller (to monitor the jet and water systems) and a fire chief outside of the tank to direct the entire operation.

Despite the short time required to actually achieve putting out the fire, much more time was spent actually preparing for each fire fight. At each location, huge plastic-lined pits (not dissimilar to mud pits used in drilling) had to be dug to store the water needed for the operation. Much more water was actually used in blasting away the coke piles that accumulated around each wellhead before the final extinguishing operation.

In the end, the Hungarian team would go on to put out nine fires in 43 days alongside other teams such as Boots and Coots and Red Adair.



TOP DRIVE TEAM

RACHEL JAGDIP

VASHESH BHAGOO

CLAYTON BUNRAJ

MARYSE JACKMAN

ADRIANA MAHARAJ

KAMLESH RAMCHARITAR

DAVID WHITTIER



Trinidad and Tobago Section

