Romanian Section
Young Professionals

SPE Beyond the Borders France Report

A SPE YP French, Italian and Romanian Section Initiative

June 06th – 08th 2019
Paris, France

speromania.org

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Young Professionals

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Event Agenda

Beyond the Borders, a YP initiative

2nd edition (2019-2020)

France event « *Wellhead to downstream* »

Thu. 6 June → Sat. 8 June 2019

DAY 1

Welcome lunch followed by conferences:
Subsea Tie-Back Developments (by Olivier Lodeho, Subsea 7)
LNG platforms & Networking (by Alain Giacosa, Total)

DAY 2 *(day-trip to Normandy)*

TechnipFMC's Flexible Pipe Manufacturing Plant - Flexi France
Veolia's Waste Management Plant

DAY 3

Energy Transition Session (by Philippe Charlez, Institut Sapiens&Total)
Pan-european YP officers exchange forum
Cultural visit - Boat trip

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Overview

Day 1 – Long Subsea Tie-Backs and LNG Platforms

The SPE Romanian Section headed to Paris on date 06th June 2019. The participants from Romania were Mihaela Coman from OMV Petrom and Florina Negru from SNGN Romgaz SA. Mihaela traveled from Bucharest and Florina flew from Sibiu via Munich to Paris. The flights were ok and also the weather.

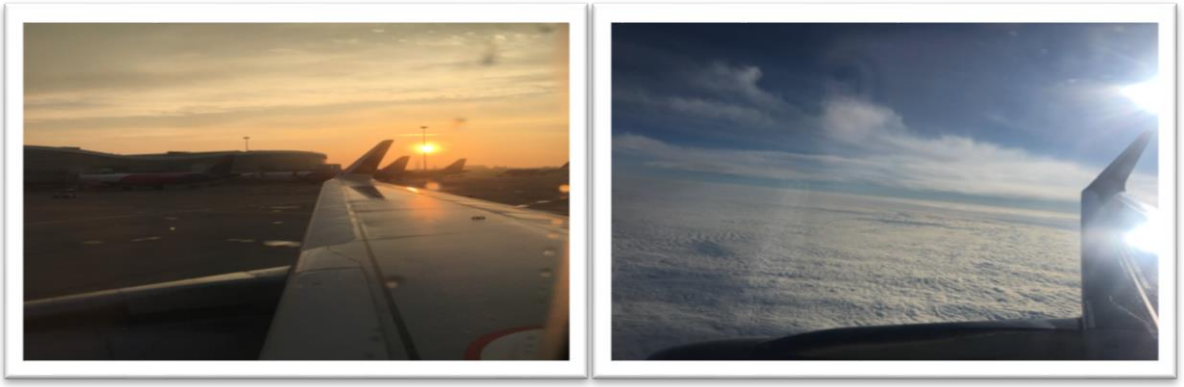


Figure 1 – Travelling to Paris

The SPE Romanian Section's members met all together at St. Cristopher's Inn Paris Gare du Nord on Thusday, 06th of June 2019 at 11:30. There was some time to leave luggages in storage room and then to go to welcome lunch location.

Figure 2 – St. Christopher's Inn Paris Gare du Nord Hostel

Figure 3 – SPE YP get together in front of Restaurant le Kyoto

Day 1 of this event started with a 'Welcome lunch' and was followed by a 'Meet & Greet' session with the SPE France board. At @ 12:00 (Paris hour) until 14:00, all the SPE Sections (Italian, Romanian, French, Portugal, Germany and Russian) met at Restaurant le Kyoto in the Shopping Mall "Le Millenaire" which is next to Canal de Saint Denis to have a welcome lunch, to meet one each other and to share different knowledge and thoughts before the conference. During lunch we had the oportunity to meet the members of the SPE Sections from France, Italy, Germany, Russia and Portugal. The food was great but we were thrilled to meet such a variety of nationalities and cultures like: Bolivia, Belgium, China, Rwanda, Croatia, Italy, Russia, France, Malaysia and much more. After knowing each other and socializing lunch, we were ready to start our 1st event in Paris.

Figure 4 – SPE YP socializing at Welcome Lunch

At 14:00, we headed to VEOLIA Headquarter, which was very close to our meeting point, and we enjoyed walking and talking with other peers in our way to the conference. We registered at the reception of VEOLIA and prepared for the first session of presentations. We got the opportunity to learn about Innovation Management during a presentation given by Olivier Lodeho, Strategic Technology Development Program Manager at Subsea7, and discuss about challenges and latest innovations relative

Figure 5 – Speakers Olivier Lodeho (left) and Alain Giacosa (right)

to long subsea tiebacks. Innovation is the process of translating an idea or invention into a good, service that creat values.

The technical program of the day continued with attendance to the conference of SPE Distinguished Lecturer Alain Giacosa from TOTAL about LNG platforms. We got the opportunity to learn about main issues in the maritime sector in terms of fuel and emissions to the atmosphere and understand how LNG is a solution available immediately and economically to meet the short and medium term objectives. An overview of the fleets of LNG-powered ships will show that this fuel main stakes of the shipping sector in terms of fuels and gas emissions.

Figure 6 – Group picture at the end of the conference

LNG is a contributor to a sustainable energy future in the context of greenhouse gas emissions and LNG supply chain emissions and provides an overview of some of the various ways in which the LNG industry can enhance environmental sustainability including methane mitigation and technological efficiencies. The world is facing serious energy-related challenges that are further complicated by increasing concerns about global climate change. While energy is a key driver of economic progress throughout the world, the development, transport, and use of fossil fuels has contributed to an increase in greenhouse gas (GHG) emissions. These duel concerns have been brought to the top of the agenda in business, politics, and public debate and people around the world are searching for ways to meet rising energy demand in a cleaner and more sustainable manner.

The first day ended with lunch where we had the opportunity to discuss the main points of the conference and to exchange knowledge with all the participants of the conference.

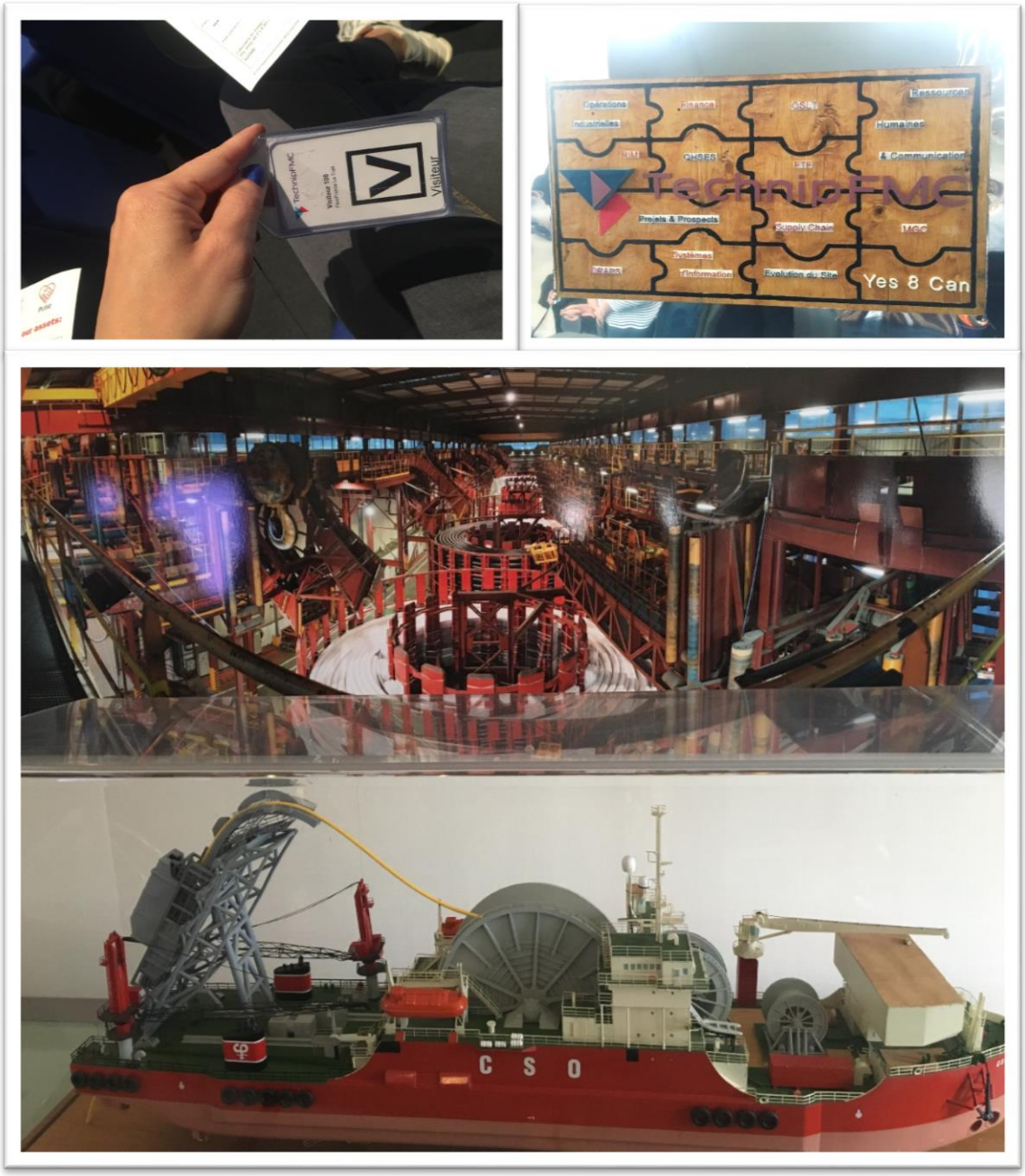
Day 2 – Trip to Normandy: Technip FMC's flexible pipe plant and Sedibex (Veolia)

Day 2 arrived and we woke up at 6 am. Because it was too early in the morning and at hostel the breakfast wasn't available yet, we took a coffee from a Caffe and we ate our breakfast gather all in front of St. Cristopher's Inn Paris Gare du Nord. After that we started our trip to Normandy to Visit of Flexi France plant in Le Trait (TechnipFMC). On our way to Normandy most of the time rained but was a pleasant trip.

Figure 7 – Alvin and Romaric bringing us breakfast (left). Landscapes from Normandy (right)

Our first stop was for an amazing visit at FLEXI FRANCE plant in Le Trait, where TechnipFMC manufacture flexible pipes used in subsea developments. At 9:00 am we arrived at and registered at the reception and we started our day with a presentation held by TechnipFMC related to Flexibloe Pipe Manufacturing Plant fallowed by visiting the plant. Did you know that this technology was first developed in France and by TechnipFMC (at the time Coflexip) in the 1970s? Impressive then and impressive now with the huge accumulated know-how and the continuous improvement efforts made at the R&D center associated to the plant!

Figure 8 – The visit at TechnipFMC



TechnipFMC is a UK-based company that provides complete project life cycle services (conception, feasibility study, front end engineering, detailed engineering, procurement, construction, commissioning, test runs, maintenance & decommissioning) for the energy industry.

TechnipFMC acts in three distinct segments: subsea, Offshore, Onshore and surface projects. These projects include offshore oil and gas exploration and extraction platforms, rigs, crude oil refinery, petrochemical plants, onshore as well as floating LNG plants.

Figure 9 – Different types for construction of flexible pipes

After brief introduction off the technology we headed to visit the plant in order to understand much better the procces of manufacturing the flexible pipeline. Flexi France has supplied more than 7000 km of flexible pipe throughout the world, in countries and regions such as Australia, Brazil, Canada, the North Sea. We were amazed by the whole process.

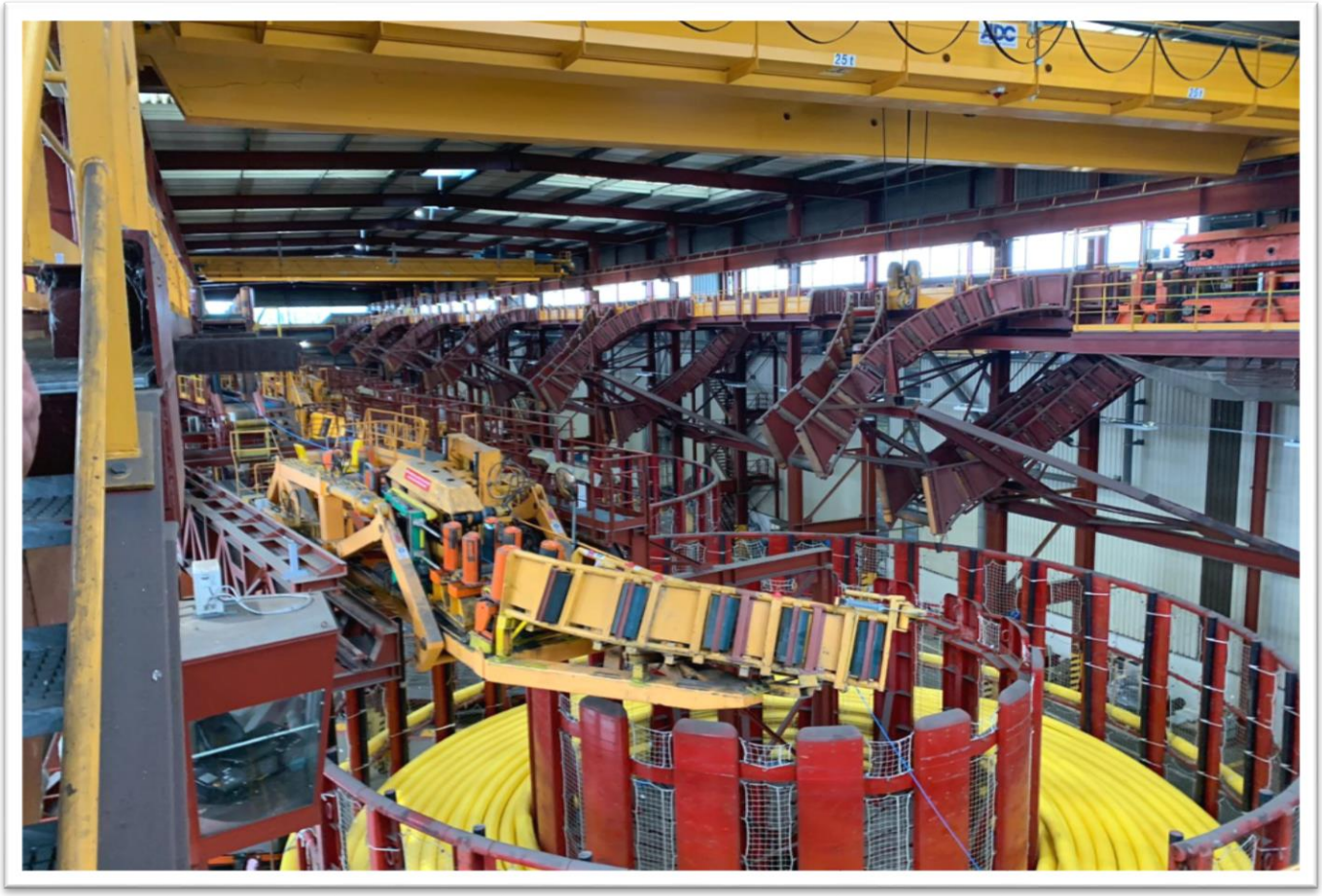


Figure 10 – TechnipFMC seen from above

We ended our tour with a picture with all the SPE participants and headed to have lunch where we had opportunity to discuss and ask questions about what we have learnt about.

Figure 11 – Group picture taken at the end of TechnipFMC tour

The afternoon focused on sustainability with another very interesting visit, this time of SEDIBEX, a waste treatment plant located in the Le Havre industrial area, which manages (among other things) oil and oily wastes from the nearby refineries and petrochemical platforms. The distinctive feature of this plant is that it is co-owned by various local industrial actors, and operated by Veolia on their behalf, while they recover some outputs (e.g. steam) to feed back into their own processes!

After visiting and having lunch we headed to Visit of Sedibex in Le Havre (Veolia's Waste Management Plant). We registred and started our visit at Waste Management Plant Sedibex. This plant build between 1972 and 1975 treats dangerous waste from petro-chemical plants located nearby in the area. This type

of plant is more and more established due to regulations in order to make the O&G industry more sustainable.

Figure 12 – Waste Management Plant Sedibex

Figure 13 – Group picture at Waste Management Plant

After this last visit, with a full of events day, we return to Paris. After a short moment for refreshing at the hostel, we met for dinner at OBU – Organisation du Burgers Unis, 10 minutes walk from Hostel. The location was nice and cosy and we had the oportunity bond with the other participants more than only proffesional and to find out things from their personal lives.

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Day 3 – Energy Transition and YP exchange forum

For the last day of the Beyond the Borders – Paris Event, the organizers prepared an event about Energy Trasition presented by Phillippe Charlez from Institut Sapiens.

Engineer of Mines of the Polytechnic School of Mons (Belgium) and Doctor in Physics of the Institute of Physics of the Globe of Paris, Phillippe Charlez joined the oil industry in 1982 where he is during 15 years expert in Mechanics of the Rocks. He then held various operational and management positions in Scotland, Angola and Kazakhstan. He is currently technical advisor to the communications director of a major oil group. A recognized expert in unconventional hydrocarbons, Philippe Charlez is the author of two books on Rock Mechanics and more than 70 articles on energy. He published in 2014 & 2015 at Technip Editions "Our Energy Future is not set in Stone" "Shale gas and oil ... in question" and "The shale oil and Gas debate". Philippe Charlez teaches Science Po, Dauphine, INSEAD and the International Center for European Training.

Figure 14 – Phillippe Charlez presenting about Energy transition

We had the opportunity to learn from Mr. Charlez that in 2017, fossil fuels accounted for 84% of the global primary energy mix. They are the main source of Greenhouse Gas (GHG) emissions into the atmosphere (35 billion t_{CO2} in 2017) and contribute significantly to global warming. For environmental reasons, but above all because of their availability in the medium term, it is urgent to gradually reduce their weight in the global energy mix by moving them to other sources of energy.

After a small break for lunch all the SPE section members stayed to a round table and exchanged ideas and what issued we are facing. Each section delegated one member to prepare a quick presentation of SPE section from their country, the committee members, what activities organized the YP section, what communication methods are using and what are the challenges and future plans.

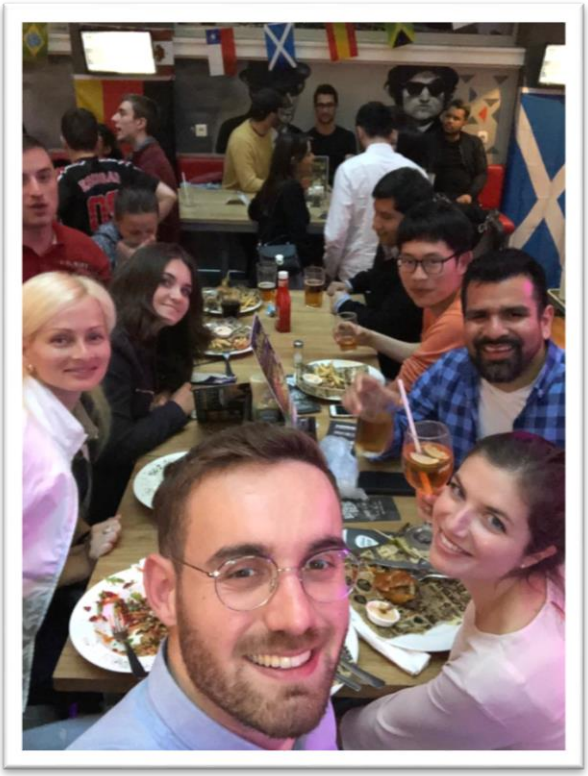
Figure 15 – Phillippe Charlez presenting about Energy transition

Figure 16 – YPs SPE exchanged about their respective sections and activities

Figure 17 – Group picture in front of Eiffel Tour

The last part of this day was dedicated to a cruise on the Seine River. The start of the cruise was just next to Eiffel Tour so we took a group picture. The cuise was very pleasant, the weather was perfect and and the views were stunning.

Figure 18 – Photos taken during the beautiful tour on Seine River



The evening was ended with dinner at St. Cristopher's Inn's restaurant. It was the moment to exchange again opinions and ideas but also to make friends and to create bonds to last forever.

Figure 19 – Dinner at St. Christopher's Inn Paris Gare du Nord

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Summary

Even more than others in light of their generation and career choices, SPEYoungProfessionals have a serious interest in understanding the status and the stakes of energy transition! In the first day we got the opportunity to learn about Innovation Management during a presentation given by Olivier Lodeho, Strategic Technology Development Program Manager at Subsea7, and discuss about challenges and latest innovations relative to long subsea tiebacks. The technical program of the day continued with attendance to the conference of SPE DL Alain Giacosa from TOTAL about LNG platforms. We got the opportunity to learn about main issues in the maritime sector in terms of fuel and emissions to the atmosphere and understand how LNG is a solution available immediately and economically to meet the short and medium term objectives.

The second day started with an amazing visit at FLEXI FRANCE plant in Le Trait, where TechnipFMC manufacture flexible pipes used in subsea developments. The afternoon focused on sustainability with another very interesting visit, this time of Sedibex (Veolia), a waste treatment plant located in the Le Havre industrial area, which manages (among other things) oil and oily wastes from the nearby refineries and petrochemical platforms.

The third day started with a conference by Philippe Charlez from Institut Sapiens therefore provided significant food for thought and for continued discussions. The gathering of YPs from numerous SPE Sections from across Europe was also a good opportunity to exchange about their respective sections and activities. During their first 'Pan-european YP officer exchange forum', they discussed about their visions and activities, their successes and the challenges they face to promote and maintain active and happy SPE membership of the younger generations. After 3 intense days of conferences, visits and other discussions, the group finally took some time for sightseeing across Paris, in particular on a short cruise on the Seine River, before gathering one last time together for a closing dinner. Thanks to organizers and to everyone who helped making BTB and this event a reality and a success!