Young Pipeline Professionals – An International Introduction

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Day 2: 07 June 2022
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• Who are the Young Pipeline Professional Groups?
• Why do the YPP organisations exist?
• What do YPP groups do?
• What can you do?
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What is the YPPE?

The YPPE is a group of motivated young professionals, aiming to safeguard a sustainable future for the pipeline industry by:

• Educate young professionals about the pipeline industry
• Providing a network for knowledge sharing
• Foster relationships between junior and senior professionals
• Create leadership opportunities for the next generation of pipeline professionals
• Promote pipeline industry careers.
Young Pipeliners International

2008
- YPF

2015
- YPP USA
- YPI

2018
- YPE

2020
- India

2012
- YPAC

2016
- Brazil

2019
- Mexico

2021
- China
- Nigeria
- Malaysia
Young Pipeliners International

- > 20000 Followers globally!
- > 5000 Registered YPP members
- > 80 Events held in 2021
- 7 YPI Senior Advisors
- > 100 LinkedIn posts in 2021
- 10 YPP groups globally!
- ∞ Lives changed by YPP groups
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To begin with, let’s look at the general picture:

• In 2015, according to Engineering UK, there is a current annual shortfall of 55,000 engineers in the United Kingdom.

• In 2017, UK, USA, China, Germany and South Africa – experienced a mismatch in supply-demand in skilled engineers.

• According to a recent study by the German federal government, this shortage will increase in the coming decades. By 2030, a shortage of 3 million ‘skilled workers’ is expected in Germany.
Supply-Demand of Skilled Engineers

Factors reported to contribute to skills gap development:

• Ageing workforce - By 2026, more than 91,000 engineers will have retired / close to retiring.

• Too few young people are studying STEM subjects - supply STEM graduates is insufficient to meet demand.

• Engineers move into non-engineering professions – In 2017 a third of people with engineering first degrees moved into other sectors.

• Engineering workforce is not receiving the right education for today’s economy - new STEM qualified recruits lack soft and interpersonal skills.

2. CEDEFOP: Skill shortages in Europe. Which occupations are in demand – and why
Is the Pipeline Industry Different?

“The oil and gas sector is facing a skills crisis…”

The Global Energy Talent Index (GETI) report expects the situation to worsen over the next five years, resulting in increased costs and less productivity.

1. 2019 Global Energy Talent Index (GETI) report – Airswift and Energy Jobline
2. Oil and gas sector ‘facing skills crisis’ - BBC Scotland - 22 January 2019
Additional Threats to the Pipeline Industry

- Pipeline industry is not an attractive “green” career for new graduates.
- Concerns around the consistency of the industry and careers in the future.
- Wave of new technologies and start-ups are disrupting industry.
- The majority of our pipeline networks are buried / out of sight – awareness of the infrastructure is poor.
- The retirement of industry experts who take with them the experiential knowledge gained over decades of learning business practices and managing processes.
The skills gap is a problem that money alone can’t solve:

• The perception of the pipeline industry needs to change – they are a key infrastructure in a green future.

• “… the desires of young people are different, with only 30% of those aged under 25 believing that higher pay effectively attracts talent.

• Investment in education is one of the best business decisions an organization can make in order to better serve customers, remain competitive, and attract top talent.

• For some generations, the work-life-balance might be more critical or the options to develop within the company.

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What can you do?
YPP Europe Activities

- Site visits,
- Hosted webinars for knowledge transfer,
- Presented at conferences to raise awareness,
- Collaborated with universities to engage students
YPP USA Activities

Symposium

7:30am - 8:00am  Registration and Breakfast
8:00am - 8:15am  Opening Remarks
8:15am - 9:00am  Turning Vision into Action in the Energy Evolution, Anne Carto, Director of Client Strategy & Sustainability, Adamantine Energy
9:00am - 9:45am  Event Keynote with Alan Armstrong, CEO Williams, and Tisha Schuller, Founding Principal, Adamantine Energy
9:45am - 10:00am  Morning Break
10:00am - 11:00am  Operator Executive Panel - What Does Your Company Strategy for Our Energy Future Look Like?
   Michele Harradence, SVP & President, Gas Distribution and Storage
   Stephanie Wilson, Vice President of Phillips 66 Pipelines
   TBD, McKinsey and Company
11:00am - 11:30am  D&I and Future Growth of the Pipeline Industry, Melissa Harper, Chief Resource Officer, Enbridge
11:30am - 12:00pm  Legal Landscape of the Pipeline Future, Daniel Archuleta, Troutman Pepper
12:00pm - 1:30pm  Lunch & Aquarium Exhibit
1:30pm - 2:15pm  Natural Gas Pipeline Conversion to Hydrogen, David Futch, ADV Integrity
2:15pm - 3:00pm  The Energy-Mix Evolution as an Infinite Prospect, Daniel Drew, Director Natural Gas Trading & Marketing, TC Energy
3:00pm - 3:15pm  Afternoon Break
3:15pm - 3:30pm  White Paper Competition Results
3:30pm - 4:00pm  Cyber Security Future and Pipelines, Justin Kessler, Director of IT/OT, Boardwalk Pipelines
4:00pm - 4:30pm  Future of Pipeline Integrity, Jan Frowijn, Vice President Business Collaboration, ROSEN
4:30pm - 6:00pm  Reception, Poster Sessions, Sponsor Tabletop Booth Visits

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YPF (Australia) Activities

- Local committees organise events every year based on members’ needs
- More than 25 networking, technical and social events organised across Australia and NZ annually
- Provides a key vehicle for knowledge transfer across generations in the industry
Other YPP Activities

SIGN UP TO BE A MENTOR OR MENTEE!

YPAC Mentorship Program

Summer Program: May to September 2022

Kickoff event in May 2022
Sign up by April 29

SIGN-UP LINKS IN POST DETAILS

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Young Pipeliners International

- Community of practice
- Mentoring opportunities
- Breaking down barriers
- Platform for presenting different solutions and creativity
- Created momentum for industry organization involvement
- Young Professional impact recognition
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What can YOU do?

Supporting YPP groups and the industry means being more than a financial sponsor!

• Ensure that pipelines are a diverse and inclusive place to work where senior leaders listen to the perspective of young pipeliners.

• Provide ongoing access to senior technical leaders and improve pipeline industry knowledge transfer.

• Provide guidance on common issues in the industry.

• Enable access to industry opportunities and professional development.

• Encourage your pipeliners, young and old to “be a part of the industry, not just in it”.

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Thank you for your attention.