



EPRG-PRCI-APGA

## 23rd Joint Technical Meeting

Edinburgh, Scotland • 6–10 June 2022



Young Pipeline Professionals Europe

# Young Pipeline Professionals – An International Introduction

Marguerite Forde – ROSEN / YPP Europe

Day 2: 07 June 2022



- 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 can you do?

# 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



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2008

- YPF



2015

- YPP USA
- YPI



2018

- YPE



2020

- India



2012

- YPAC



2016

- Brazil



2019

- Mexico



2021

- China
- Nigeria
- Malaysia





> 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



- Who are the Young Pipeline Professional Groups?
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# The Future of Engineering?

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.



1. Engineering UK: Engineering 2015 — The State of Engineering
2. CEDEFOP: Skill shortages in Europe. Which occupations are in demand – and why
3. Learning to grow: what employers need from education and skills: education and skills survey, institution for Engineering and Technology, 2015.



# Is the Pipeline Industry Different?

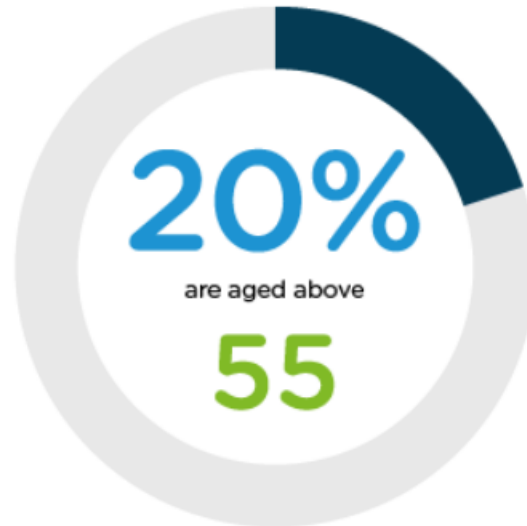


42%

in Europe

say the talent crisis  
is already here

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



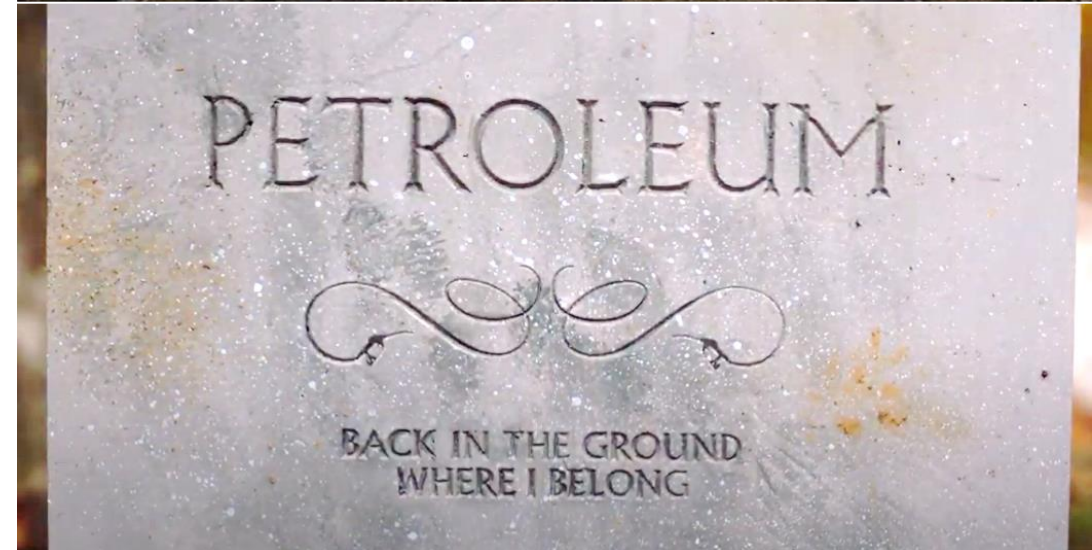
The Global Energy Talent Index (GETI) report expects the situation to worsen over the next five years, resulting in increased costs and less productivity.

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.





# Addressing the Shortfall



In North America

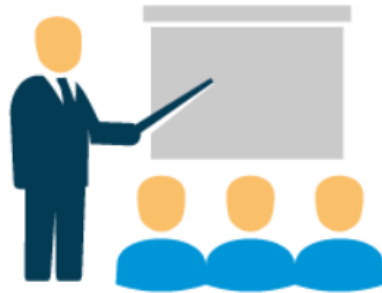
54%



say the best way to attract the right talent is to change the perception of the industry

In Europe

20%



say that the best way to attract talent is to offer better training, providing workers with more rounded skill-sets

In Australasia

35%



believe that the best way to attract the talent most beneficial to them is to offer more flexible working solutions

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.

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





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# YPP Europe Activities



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



**A Word from the Wise**

Alastair MacLachlan  
a consultant with over 30 years' of experience in the pipeline industry shares real life examples and novel solutions to get a better appreciation of risk.

Maude

31st March at 1pm (BST)  
[www.yppeurope.org](http://www.yppeurope.org)

**Technical Time-Out**

Structural integrity of steel pipelines: the girth weld as a weakest link (or not?)

Prof. Stijn Hertele  
Associate Professor at Ghent University

8th April at 11:30am (BST)  
Register for the webinar:  
[www.yppeurope.org](http://www.yppeurope.org)

**YPPE Fest**

UKPIA, aubin, Fotech, TEAM, INGU, nationalgrid, ENERSYS, PIPELINERS, TDW, GRONINGEN SEAPORTS, PARADIGM, 3P SERVICES, T.D. Williamson, esri, PENSPEN, MAATS, wood, HALLIBURTON, HDM PIPELINES, ROSEN, INSPIPE, wood, Quest Integrity, PIPELINE VESSEL & STRUCTURAL REPAIRS, Pipetech, TRAPIL, NDT GLOBAL, Pipe Spring LLC, INEOS FPS, control point, Jee, HALF WAVE, CONNECTOR SUBSEA SOLUTIONS

**Thank You For Your Support**



## 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



Diversity & Inclusion

B.R.I.D.G.E.

Workshop

May 24

Featuring





# YPF (Australia) Activities



EPRG-PRCI-APGA  
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- 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





07 June 2022



# YPAC Mentorship Program

Kickoff event in May 2022  
Sign up by April 29

SIGN-UP LINKS IN POST DETAILS



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Young Pipeline Professionals...

139 followers  
7mo • Edited •

+ Follow

RECRUITMENT:

Member of the YPPC participated in the club tour for the first time

The patrol festival aims to show the club's style to all students in the school and enrich the spiritual life of the campus. It can not only strengthen the connection effectively between the club and the guidance department, but also show our sincerity and spirit to the clubs in helping the clubs which is developed, and increase the relationship between the clubs. The cohesiveness of the community will facilitate the future management of various clubs, and it can also promote students' understanding of the large-scale sch...[see more]

2

Like  Comment

→ Share

 Send

Hosted by YPAC Atlantic Chapter

Register: [https://us02web.zoom.us/join/register/WN\\_-cBVVlyyRoImZAJYf6M7C](https://us02web.zoom.us/join/register/WN_-cBVVlyyRoImZAJYf6M7C)

Join us to explore professional development opportunities by leveraging your LinkedIn profile. You'll learn tips on how to make your profile shine, how to engage with people and online content, and how to develop a strategy to accelerate your career.

MARCH 21, 2022 @ 12 - 1pm AST

Join us for a "mini makan" session

**YPP Malaysia**  
**MEET & GREET**  
Tuesday, May 31, 2022 | 4 - 6PM

**Note:**  
Please arrive 15 min prior to allow time for registration at EQ Lobby, Ground Floor  
At ground floor reception, please register to enter WeWork premises (Level 18)  
At Level 18 WeWork reception, please register for YPP Malaysia event.

**For assistance/ queries, please contact:** Toh Kai Xin (012 291 2896)  
Chia Kah Soon (017 391 9986)

**EQ Kuala Lumpur**  
Equatorial Plaza  
Jln Sultan Ismail, Kuala Lumpur,  
50250 Kuala Lumpur,  
Wilayah Persekutuan Kuala Lumpur

YPP Malaysia

Young Pipeline Professionals Malaysia



Young Pipeline Professionals - Mexico (YPP)

1,106 followers  
3w • 🌐

Si bien el principal uso del litio en México y en el mundo es en la manufactura de baterías, este elemento también se puede encontrar en aires acondicionados, vidrio, cerámica y hasta medicamentos. En el siguiente artículo se habla a fondo...see more

Rate this translation · 

While the main use of lithium in Mexico and in the world is in the manufacture of batteries, this element can also be found in air conditioners, glass, ceramics and even medicines. The following article talks in depth about the so-called "white gold", and its importance. Click on the image or the link to learn more about it.

#youngpipeliners #yppmexico #litio

<https://lnkd.in/gzvXW24v>



**Litio.** Qué es y por qué es importante para la reforma eléctrica

milenio.com • 3 min read



# Young Pipeliners International



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- 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

## Pipeline & Gas Journal

### THE YPI ANNUAL RECOGNITION AWARDS



Young Pipeliners International are pleased to announce the 2021 edition of their annual awards.

The awards recognize the achievements of individuals under 35 years of age who have demonstrated a valuable and original contribution to the industry.

The winners will be announced and the awards presented at the 2021 Pipeline Pigging & Integrity Management Conference on Wednesday, February 24, 2021, at the Hilton Americas Hotel in Houston.

#### SUBMIT YOUR NOMINATION TODAY!

The deadline for nominations is Friday, January 15, 2021.

The nomination form and more information are available at [YPPUSA.ORG/2021-YPI-AWARD/](http://YPPUSA.ORG/2021-YPI-AWARD/)



Young Pipeliners International

World Pipeline Senior Editor Elizabeth Currier interviews the winners of the John Tiratsoo Award for Young Achievement, awarded by Young Pipeliners International, in partnership with PPIS.

**Tyler Tunic, Queensland, Gray Oak**  
Tyler Tunic, a 2021 Young Pipeline Professional, was interviewed by Elizabeth Currier for the award. He was named the winner of the John Tiratsoo Award for Young Achievement, awarded by Young Pipeliners International, in partnership with PPIS.

**Blake Villarrubia, Houston, Texas**  
Blake Villarrubia, a 2021 Young Pipeline Professional, was interviewed by Elizabeth Currier for the award. He was named the winner of the John Tiratsoo Award for Young Achievement, awarded by Young Pipeliners International, in partnership with PPIS.

**John Tiratsoo, Houston, Texas**  
John Tiratsoo, a 2021 Young Pipeline Professional, was interviewed by Elizabeth Currier for the award. He was named the winner of the John Tiratsoo Award for Young Achievement, awarded by Young Pipeliners International, in partnership with PPIS.

**Elizabeth Currier, Houston, Texas**  
Elizabeth Currier, a 2021 Young Pipeline Professional, was interviewed by Elizabeth Currier for the award. She was named the winner of the John Tiratsoo Award for Young Achievement, awarded by Young Pipeliners International, in partnership with PPIS.

**Young Pipeliners International**  
Young Pipeliners International is a global organization of young pipeline professionals. It is a platform for presenting different solutions and creativity. It was created to provide a platform for young pipeline professionals to share their experiences and ideas. It is a platform for presenting different solutions and creativity. It was created to provide a platform for young pipeline professionals to share their experiences and ideas.

CELEBRATING  
THE  
FUTURE  
OF  
THE  
PIPELINE  
INDUSTRY



Episode 161: YPP and the John Tiratsoo Award for Young Achievement with Tyler Tunic and Blake Villarrubia

[pipelinerspodcast.com](http://pipelinerspodcast.com) • 24 min read



## YPI WEBINAR

Natural Gas: Engaging In Conversations about the Fuel of the Future with INGAA Foundation's Advocacy Alliance



Young Pipeline Professionals - Brazil



Young Pipeline Professionals Mexico



Young Pipeline Professionals Europe



Young Pipeline Professionals USA



Young Pipeline Professionals Asia



Young Pipeline Professionals Africa



Young Pipeline Professionals Middle East

Tue, Mar 30, 11:00 AM - Wed, Mar 31, 12:30 AM BST

YPI Competency Webinar and Panel Session  
Event by Young Pipeliners International

[View event](#)



Figure 1: YPI USA Symposium in Houston, Texas, March 2018

## BUILDING THE NEXT GENERATION

Young Pipeliners International (YPI) offers a look at how its groups help and support the young pipeline professionals of today, with a focus on the USA, Canada and Mexico chapters.

**YPI**  
Young Pipeline Professionals USA  
**YPP**  
Young Pipeline Professionals Canada  
**YPP**  
Young Pipeline Professionals Mexico  
**YPP**  
Young Pipeline Professionals Europe  
**YPP**  
Young Pipeline Professionals Asia  
**YPP**  
Young Pipeline Professionals Africa  
**YPP**  
Young Pipeline Professionals Middle East



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# What can YOU do?

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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”.



The background is an abstract geometric pattern composed of numerous triangles in various shades of blue and teal. The colors range from very light, almost white, to deep navy blue. The triangles are of different sizes and are arranged in a way that creates a sense of depth and movement, with some areas appearing more prominent than others.

Thank you for your attention.