



# Year in Review

January 2016

## YOUNG PIPELINERS ASSOCIATION OF CANADA (YPAC)

### IN THIS ISSUE

# Recap on the Year

by Shannon Krochenski

This year, the Young Pipeliners Association of Canada (YPAC) hosted a number of exciting events to provide young pipeliners with the opportunity to learn and engage in meaningful discussions with other industry professionals.

Our goal is to provide an environment where young pipeliners can develop a support network, and foster an attitude of continuous learning.

Within the pipeline industry, the components of each company's operational practices are becoming more and more interconnected. Each member of the industry has to work hard to engage with the public and ensure that the industry has worked to obtain its social license to operate. The Pipeline Industry needs to work together to define and implement best practices that improve industry performance in pipeline safety, environmental protection and socio-economic practices

Collaboration is becoming more and more important in our industry. As mentioned by Brenda Kenny, former President and CEO of The Canadian Energy Pipeline Association (CEPA), "We know that we need to build public confidence and trust in

our industry and we think that CEPA will play a big part in that," she stated that "The shared vision of CEPA and our member companies is zero pipeline incidents and to demonstrate to Canadians that we're serious about earning and keeping their trust."

On November 3, 2015, CEPA launched its inaugural transmission pipeline industry performance report. "Committed to Safety, Committed to Canadians" –details what Canada's transmission pipeline companies are doing to improve safety, lessen environmental impacts and achieve operational excellence.

On the topic of collaboration, YPAC would like to expand its membership. YPAC was originally founded in Calgary, Alberta. However, we have been looking for opportunities to expand the YPAC Communities into other Provinces across the Country. With new Chapters forming in Vancouver and Montreal, YPAC has been looking for ways to expand the programs provided in Alberta to other areas of the Canada. If you are interested in assisting in developing a new chapter to outreach other areas, please contact us.



### Overview of Events

Take a look at the many learning and networking events that were hosted in Calgary and Edmonton this year, refer to Pg. 4.



### Mentorship 101

CEPA Foundation's Mentoring Program commenced this year. For information on the benefits of mentoring relationships, how the CEPA Foundation's mentoring program works, and pop quiz to test your mentoring skills, refer to Pg. 3.

# Re-align with Our Vision

YPAC envisions young Canadians educated and properly informed about the pipeline industry. Our members work to educate and engage young Canadians interested in the pipeline industry by: promoting the pipeline industry, upholding safe and reliable operations in the pipeline industry, providing networking opportunities between other pipelining peers, and assisting the pipeline industry in educating the public on the necessity of the pipeline industry.

- Be a Canada-wide network of pipeline professionals focused on attracting and retaining young people to this industry.
- Provide opportunities for young individuals to learn the breadth and depth of the industry.

Facilitate passing technical/engineering knowledge, building a positive future for Canada's pipeline industry.



## CONTACT YPAC:

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**Twitter:** @YPACanada

**Facebook:**  
[www.facebook.com/YPACanada/info](http://www.facebook.com/YPACanada/info)

### HOW DID WE DO?

We would appreciate your feedback. Let us know how we can serve you better by informing us about any concerns or ideas you may have for a future event. Please refer to the email address below to submit your commentary.

SUBMIT AN EMAIL AT:  
[info@ypacanada.com](mailto:info@ypacanada.com)

# Industry Awareness



## YPAC & Pipeline Industry

YPAC members are actively involved in industry ranging from pipeline design to operations and maintenance, construction related activities, pipeline scheduling, economic policy, aboriginal engagement, regulatory policy, stakeholder relations, land negotiation, environmental impact studies, strategic planning, trading, corporate tax, and the list goes on. There is never a dull moment in the pipeline industry and ample opportunity. Don't forget that a great place to find out about current happenings in the pipeline industry is to visit the individual company websites.

Check out these links:

- [CEPA – Industry Associations](#)
- [CEPA – Interactive Map](#)
- [ASME Pipeline Systems Division \(PSD\)](#)
- [Pipelines International](#)

COMMUNICATION & TOPICS



*You are welcome to register as a Mentor or Mentee. Don't limit yourself to a specific category of mentoring because of your years of industry experience. Your area of expertise might be of interest to someone else within the program.*

### Schedule a Meet-up

There are various media outlets to allow for ongoing communication with your mentor. Establish a dialogue to confirm your preferences in communication such as; email, phone calls, web chats or face-to-face meetings.



### Topics to Discuss

Review the mentor/mentees career experiences to find relevant topics. Discuss potential learnings from the industry or new challenges that the industry is facing. The following are examples you can draw on when creating questions.

- What do you attribute your success?
- What was the turning point in your life?
- Who was your mentor or role model? What did you gain from this mentor?
- What is your greatest achievement?
- Who has been an inspiration in your life?
- What strategies do you use to stay focused on your goals?
- Do you have any advice for me?
- How has your career progressed within this company?
- What attributes do you feel it takes to succeed at this company?
- What is the best way to bring an idea forward at this company?

#### FOR MORE INFORMATION

CEPA Foundation's mentoring program orientation session provides an overview of the benefits of mentoring relationships, how to use the MentorCity platform, and how the CEPA Foundation's mentoring program works.

Link: [MentorCity Orientation](#)

## Mentorship 101: Mentor City

MentorCity is an on-line mentoring matching program that connects you to meaningful mentoring relationships. The premise is that throughout your life and career, there are times when you can benefit from the advice, guidance and support of a mentor. There are also times when you can share your expertise and experiences to guide mentees in the right direction. MentorCity creates a mentoring community that enables you to engage in a series of give-and-take relationships.

### Why do I need a Mentor?

Having a mentor can provide you with many advantages. "Mentoring is a brain to pick, an ear to listen, and a push in the right direction." Source: John Crosby. A mentor can help to shorten your learning curve, open your mind to new ideas and possibilities, identify opportunities and advise on how to promote yourself. If you select a mentor who works at the same company as you do, they can provide invaluable insider information on how to navigate the company politics and achieve your goals. Mentoring is not just a great idea, it is a proven concept:

- Employees who received mentoring were promoted FIVE times more often than people who didn't have mentors. Source: Sun Microsystems
- 75% of executives point to mentoring as playing key roles in their careers. Source: ASTD

- 95% of mentoring participants said the experience motivated them to do their very best. Source: The War for Talent
- 96% of executives say mentoring is an important development tool. Source: Account Temps
- 44% of CEOs list mentoring programs as one of the three most effective strategies to enhance women's advancement to senior management. Source: Dr. Belle Ragins for Catalyst

### How to Sign-up

How to initiate your CEPA Foundation Mentorship Program Account:

Steps to take:

1. Complete your Profile
2. Find a Mentor / Find a Mentee
3. Invite her/him to an initial mentoring meeting
4. Complete a Mentoring Agreement with your mentor or mentee
5. At the end of your relationship, complete a Program Evaluation



# Looking Back at This Year's Events

## The Future of Canadian Pipelines -Dr. Brenda Kenny



On December 2, 2015, YPAC & YPE joined forces to host a presentation by Brenda Kenny, former CEO and President of CEPA. Who provided an insightful presentation on her perspective of the Canadian Pipeline Environment: Outlining the history of the pipeline industry, how the industry has shifted, and what the future holds.

## Erosion Coating Facility- Herman Rosen



ROSEN is completing the construction of an erosion control coating manufacturing facility in Calgary. This first of its kind facility, will be capable of producing coated pipe from 16-48" in diameter. The manufacturing plant is situated in a 67,000 sq. ft. facility with 5 acres of yard space. YPAC joined Mr. Hermann Rosen to celebrate the grand opening of the new Intelligent Plastics Facility in Calgary, Alberta

## "Life in the Fast Lane? How About Life in the "Pipe" Lane." -Paul Givens, Project Manager at TYTEC

On October 21, 2015, YPAC hosted Paul Givens, Jeffrey Yeo, Chad Nedohin, and Omar Araji, key members of Tytec's design team. The team provided an overview of their personal and professional pipelines experiences, as well as their entrepreneurial venture in starting the new engineering design consulting firm, Tytec.

## YPAC involved with U of C 4<sup>th</sup> Year Engineering Design Project



This year, members from the YPAC Team facilitated a research project with 4<sup>th</sup> Year Mechanical Engineering Students at the University of Calgary to solve some of the current integrity issues in the Pipeline Industry.

## Experimental Evaluation of External Leak Detection Technologies for Liquid Hydrocarbon Pipelines

On December 3, 2015, Mathew Bussiere, Lead technical resource for leak detection research at C-FER presented on his new Leak Detection Research he has been involved in such as fluid control systems as well as vortex detection and tracking algorithms. His presentation outlined the development process and this technology may assist in changing the future of pipeline safety.

## Horizontal Directional Drilling in Pipeline Applications - Manley Osbak

On June 15, 2015, Manley Osbak, Vice President, Engineering & Estimating at The Crossing Company provided an overview of the responsibilities he is faced with for overseeing the company's estimating (tendering), project management and navigation functions which all lie within the Technical Services Group. He provided an overview of the various types of HDD Technology his company offers.

## Launch of: The Pipeline Project Life Cycle Discussion Series



The Young Pipeliners Association of Canada in Calgary is proud to present the Pipeline Project Life Cycle Discussion Series held over lunch at the Calgary Petroleum Club. The Pipeline Project Life Cycle Discussion Series will provide insight from industry experts into various aspects of a liquids pipeline project

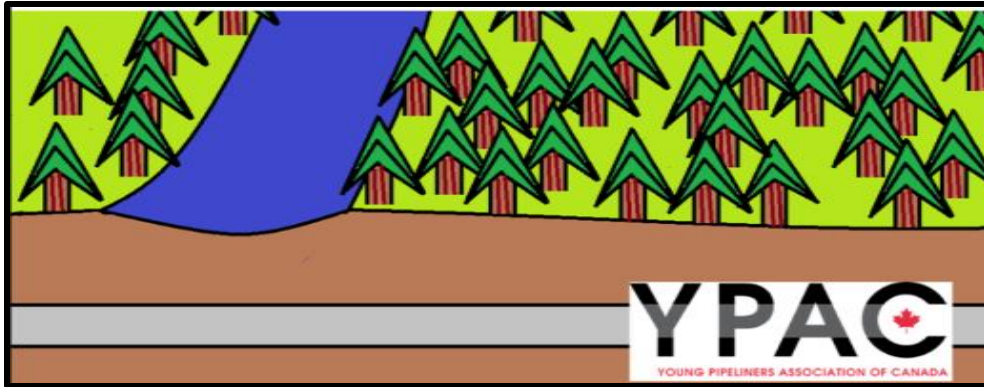
The focus of this session will be on the business development side of the pipeline business from an owner/operator perspective.

On October 20, 2015, Manpreet Jassal, Senior Manager of Business Development at Enbridge initiated the Case Study, providing an approach on the process and what drives good business fundamentals.

## Contractual Strategy and Financing of Megaprojects - Mike Gaudet

On June 24, 2015, YPAC hosted a presentation on the associated economic and/or political factors that support some of the current mega-projects in North America as well as navigating the challenges of contract negotiations, financing and market expectations. Speaking on these issues was Mike Gaudet, Director of Project Finance at RBC Capital Markets and Kerry Williams, Shareholder at Chamberlain Hrdlicka.

# YPAC PIPELINE CONFERENCE 2015



On August 28, 2015, members of the pipeline industry gathered from all over Canada in Edmonton for the 1st ever YPAC Pipeline Conference.

With over 150 in attendance, the conference was a full on day of learning and networking, where young pipeliners were provided with the opportunity to present on their achievements within their work from industry or academia.

The conference was developed and organized by volunteers representing international energy corporations, pipeline associations and regulatory agencies.

The aim of this conference was to attract, engage and retain young pipeline professionals in our industry and promote opportunities for pipeliners across Canada to network and transfer knowledge.

The conference was able showcase modern industry knowledge relating to the following pipeline topics: welding and materials science, pipeline design, cracks, models and techniques and data management. The focus was to engage young pipeliners to present to both the young and experienced within the pipeline industry.

The following keynote industry speakers participated in engaging presentations and at the conference:

Walter Kresic, Vice President of Pipeline Integrity, Enbridge Inc. – The Future and Vision of Pipelines

Richard Wayken, CEO, Canadian Pipeline Technology Collaborative (CPTC) – Enhancing Innovation and Technology Development in Canada’s Pipeline Industry

Alan Pentney, Technical Leader, National Energy Board – Challenging Young Pipeliners: Integrity Management Systems, Safety Culture, and Performance Measurements

Zaheed Hasham, Technical Trainer, DynamicRisk – Knowledge Transfer in the Pipeline Industry

Thank-you to all of those who submitted an abstract for the YPAC Pipeline Conference.

There were a number of amazing presentations and topics pertaining to the various aspects of the Pipeline Industry.

Congratulations to Steven Bott and Daryl Bandstra, whose abstracts were selected by our panel of esteemed judges to attend the 2015 Rio Pipeline Conference.

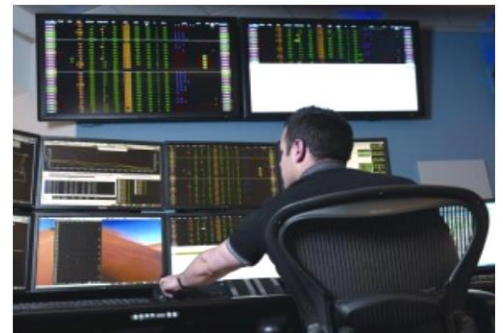
YPAC would like to thank ASME PSD for co-sponsoring these members to attend the conference.

## HIGHLIGHTS FROM PRESENTATIONS



### Pipeline Integrity: Crack Growth

Mengshan Yu, and Weixing Chen presented on the research that has been conducted in collaboration with TransCanada and other pipeline companies to model and characterize pipeline crack growth and control by pressure fluctuations



### Data Management: PipeVis

Zahra Sahaf presented on the research that has been conducted by her team to develop an Interactive Visual Analytics of Pipeline Incident Data



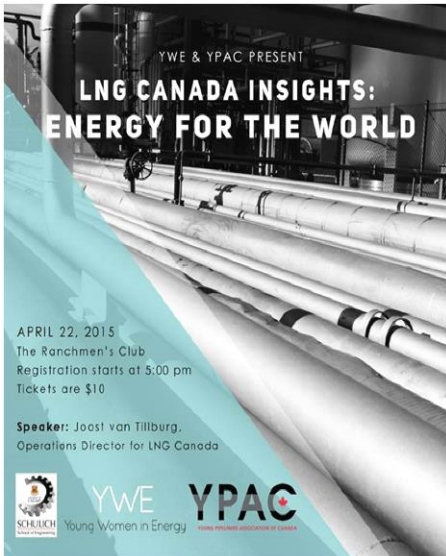
### Pipeline Planning and Design: Upheaval Buckling Resistance

Saeed Delara provided an insightful presentation on Soil Resistance against Upheaval Buckling of Pipelines in Cohesionless Soil and how this can be incorporated into Pipeline Engineering Design.

# BRITISH COLUMBIA LNG INDUSTRY

On April 22, 2015, the Young Women in Energy (YWE) and the Young Pipeliners Association of Canada (YPAC) teamed up to facilitate an insightful presentation on the future plans for LNG Canada, a Shell-PetroChina-Kogas-Mitsubishi Joint Venture. The Keynote speaker for this event was Joost van Tillburg, Operations Director for LNG Canada, which is an LNG export facility proposed to be located in Kitimat, British Columbia.

During her presentation Joost was able to share her perspective on the challenges and opportunities of this critical project, as well as her vision for the future of LNG in Canada.



As outlined by Joost, LNG Canada has received its Environmental Assessment Certificate from the Environment Canada and is currently in the final stages of evaluating the prospect of making a final investment decision. LNG Canada will make a decision after they completely assess the project's labour needs, engineering work, costs estimates, and long-term potential in the global marketplace.

However, regardless of the final outcome for the LNG Canada Project, there are still plenty of fish left in the proverbial LNG sea of industry investors. With the B.C. government aiming having three LNG facilities in operation by 2020, it will be a tight race to see which consortium will reach the finish line first

In 2011, the Canada Starts Here: BC Jobs Plan was created to help strengthen local economies by getting B.C. products to new markets. The strategy focuses on building infrastructure to get goods to market; creating jobs for families, and creating economic advantages that will leave a lasting legacy for future generations of British Columbians

To achieve this goal, an LNG Strategy was developed which set in motion a plan to build the industry. The strategy captured the attention of large companies and global investors who have since come forward with a variety of LNG proposals, now at various stages of development. Most of these projects are planned for northwest British Columbia in communities such as Kitimat and Prince Rupert. These projects are so significant that they represent the largest private sector investment proposals in the Province's history.

However, these projects have seen a significant number of issues due to Environmental Activists and First Nations opposition, slowing the development process. Therefore, investors will need to work together with local communities to make the LNG Dream in BC a reality, before the province loses any headway from other global competitors such as the US Gulf Coast and Australia.

## FUN FACTS ABOUT LNG

-160°C

LNG is natural gas that has been cooled to -160 degrees Celsius to keep it in liquid form

21

Number of LNG Projects proposed by investors in British Columbia since 2011.

## FOR MORE INFORMATION

BC Liquefied Natural Gas Sector info:  
<http://www.gov.bc.ca/mngd/doc/LNG101.pdf>

## BC GOVERNMENTS LNG STRATEGY



## LNG Growth in BC

B.C.'s vision for LNG began to take focus in September 2011 with the release of Canada Starts Here: The BC Jobs Plan. This plan set the stage for economic growth by focusing on our province's competitive advantages, including natural resources and proximity to growing markets in Asia.



## Supply and Demand

B.C. has supplied the North American market with natural gas for more than 50 years. Over that time, the market has changed drastically with the onset of unconventional natural gas and supply. In just a few short years, North America's access to natural gas has increased 10-fold due to new supply, diminishing the demand and commodity value of B.C.'s most promising resource. Globally, the situation is much different. The demand for energy is increasing dramatically, particularly in Asia where economies are searching for natural gas to support massive industrial modernization and the diversification of their energy portfolios.



## Industry Participation

Prospective trade partners have taken notice of BC's plans and large industry players with global LNG experience have come forward with major project proposals. Investing time and capital towards natural gas production and export infrastructure, a total of 37 LNG Project Partners have been proposed to date.

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