



Oil and Gas Pipeline Threats – Past, Present and Future

25, 26, 27 November 2024

Dr Phil Hopkins

Webinar – NOW AVAILABLE – Register below

With the advent of greater demand for online training, HERA, IIW-India, SAIW and the CWB Association are cooperating and collaborating to transfer the knowledge and experience of world experts into as many countries on a global basis.

The four organisations will arrange for webinars and eCourses to be presented by such world experts to meet the challenges of different time zones, the need to assist individuals and industries to optimise their training times as well as improve their national welding capabilities.

You can make enquiries and bookings with each organisation offering the webinar or course most suitable for your needs.

Links for registration for this Webinar are given later in this brochure on page 4.

This presentation is brought to you by:

Dr Phil Hopkins

Phil Hopkins Learning Ltd.

Contacts at each organisation for more detailed discussion on this Webinar:

Max Ceron • CWB Association • email: Max.Ceron@cwbgrouop.org • Americas

John Tarboton • SAIW • email: john.tarboton@saiw.co.za • Africa and Europe

R. Srinivasan • IIW-India • email: iiwum01@gmail.com • SAARC and Middle East

Oil and Gas Pipeline Threats – Past, Present and Future



Presenter: Dr Phil Hopkins

Phil Hopkins Learning Ltd.

With the continuous growth in the global demand for energy, the use of oil and gas as energy sources is evidenced by the major new pipeline projects taking place around the world as well as the continued use and upgrading of the enormous existing 4 million kilometres global network of pipelines. This

Dr Phil Hopkins is an independent consultant, specialising in the integrity of transmission oil and gas pipelines. He has his own company (**Phil Hopkins Learning Ltd**) which focuses on on-line teaching and learning, and Phil has trained over 15,000 engineers over 40 years. He was previously **Executive Director** of the pipeline engineering company **Penspen Limited, UK**, and **Managing Director** of the pipeline engineering consultants, **Andrew Palmer and Associates (APA), UK**.

He has previously held a number of senior management roles in the oil and gas business, including the Research and Technology Division of British Gas, and he was also a Professorial Fellow at Newcastle University, UK, and a Visiting Professor at Northumbria University, UK.

presentation will give particular attention to the following areas:

- The need for safety and integrity of pipelines
- Challenges being faced with aging infrastructure
- Challenges with re-purposing pipelines
- Future threats

Our oil and gas pipelines are classed as ‘critical infrastructures’ - we cannot do without them. Most countries now have large oil and gas pipelines systems: these 4 million kilometres of pipelines transmit energy 24 hours a day, every day of the year, yet we do not see them, and most of us are unaware of them. Why are they important? Well, oil and gas provides more than 50% of the world’s primary energy needs, and this will only decline slightly up to 2050.

This presentation gives a brief overview of the history of oil and gas pipelines, from their origins in the mid-1800s to today. It gives a glimpse into future pipelines, such as those transporting hydrogen, and issues we will be facing, as we continue to burn fossil fuels and look for alternatives.

The big issue facing this vast pipeline system today is age; for example, many of our pipelines will be close to 100 years old by 2050. The continuing demand for oil and gas will mean these ageing systems will need to function safely and efficiently for many more years, but what threats will this ageing system face? An ageing asset can be managed, but the threats have to be understood. What about new threats? More threats? Our politicians are rightly looking towards cleaner fuels, and will likely use existing infrastructure to aid this transition, through re-purposing, but what problems will this create?

This presentation takes a closer look at all these threats – past, present, and future.



WHERE and WHEN:

The WEBINAR will be of one and a half hours duration including half an hour for questions and discussion. It will be held on three separate occasions to accommodate the four different regions of the globe: The Americas; Africa and Europe; Indian sub-continent, Asia and Australasia.

WHO SHOULD ATTEND?

Personnel of all types and at all levels in manufacturing, fabrication, construction, maintenance, standards, regulatory, education, training and research organisations related to pipelines are welcome to attend. Delegates are welcome to bring along their questions to contribute to discussions and positive outcomes.

WHAT INDUSTRY SECTORS IS THE WEBINAR RELEVANT FOR?

All pipeline related industry sectors will benefit from involvement in the webinar.

Helping build up your National Welding Capability (NWC) in the Pipeline Industry.

IIW also shows the importance of education, training, skills and careers in its recently released report “The Importance of a Country’s Welding Industry, its National Welding Capability (NWC) and their Significance to the UN Sustainable Development Goals (SDGs)”,

The report provides guidance, including practical ideas and recommendations, on how

a country’s welding industry can improve its national welding capability and simultaneously progress targeted UN Sustainable Development Goals (SDGs) where resources are available. This includes pipeline projects as shown in the Long Report Volume 2 pages 8 to 42.

The report can be downloaded free of charge <https://iiwelding.org/iiw-jointothefuture/iiw-and-sustainable-development/>

Keywords: *Pipelines, threats.*



SAIW South Africa (Africa and Europe regions)

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Monday, 25 November 2024	South Africa 12:00-13:30 Nigeria 11:00-12:30 London... .. 10:00-11:30 Istanbul... .. 13:00-14:30

- **Registration Link:**
<https://www.saiw.co.za/win-webinar-oil-and-gas-pipeline-threats-past-present-and-future-25-november-2024/>

CLICK HERE TO REGISTER

IIW-India (Sub-continent plus other Middle East and Asian regions)

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Tuesday, 26 November 2024	India & Sri Lanka 14:00-15:30 Bangladesh 14:30-16:00 Saudi Arabia, Kuwait, Bahrain 11:30-13:00 UAE-Dubai, Sharjah, Abu Dhabi, Oma... .. 12:30-14:00 Singapore, Perth, Shanghai 16:30-18:00 Sydney... .. 19:30-21:00 Auckland. 21:30-23:00

- **Registration Link:**
<https://tinyurl.com/3c6rx2zy>

CLICK HERE TO REGISTER

CWB Group Canada (Americas North and South)

COURSE PART	COURSE DATE	LOCATION / TIME ZONE / STARTING TIME
1	Wednesday, 27 November 2024	Toronto 12:00-13:30 (EST) West Coast Canada and USA 09:00-10:30 (PST) Atlantic Canada and USA... .. 13:00-14:30 (AST) Sao Paulo Brazil 14:00-15:30 (BRT) Santiago Chile 14:00-15:30 (CLST)

- **Registration Link:**
<https://www.eventbrite.ca/e/oil-and-gas-pipeline-threats-past-present-and-future-tickets-1042891766347?aff=oddtcreator>

CLICK HERE TO REGISTER

Register Today – To register, follow the registration links above.

Cost – The webinar is free to all applicable areas. Membership may be required.

Cancellations – *Please note:* The organisers reserve the right to cancel the webinars due to insufficient registrations or other reasons beyond their control, as well as altering the programme if they deem it necessary. The organisers also have the right to refuse registrations.

Stay tuned for future webinars and courses by WIN!!