



Oil & Gas Digital Twin Conference & Exhibition 2024

May 02 - 03, 2024 | 100% Virtual

Discover latest solutions and emerging trends in the industries!

Our current & previous sponsors:



ABOUT THE CONFERENCE

The Oil & Gas Digital Twin Conference 2024 stands as a pivotal gathering where industry professionals and technology innovators convene virtually to spearhead an extensive digital transformation within the Oil & Gas sector.

This exclusive event is dedicated to exploring the nuances of the digital twin ecosystem, delving into crucial aspects such as sustainability, operational impact using Digital Twin and Generative AI, digital integration in the upstream sector, cybersecurity considerations, and efficiency improvements in Asset Performance Management. Notably, the conference highlights the crucial role of Digital Twin in steering the industry towards a Net Zero Future, emphasizing sustainability and operational excellence as key objectives.

In this immersive virtual environment, participants can anticipate a wealth of insights, including real-world case studies and engaging discussions on the latest technological advancements.

The conference agenda is meticulously curated to provide an in-depth exploration of critical industry challenges and cutting-edge innovations. With a commitment to fostering collaboration and networking opportunities, the event serves as a platform where industry leaders can exchange ideas, explore innovative techniques, and establish enduring connections. As the Oil & Gas sector charts its digital future, this conference serves as a guiding beacon, enabling professionals to make informed decisions and embrace technologies shaping the industry's trajectory.

Conference Theme/Keytopics

- ★ Leveraging Digital Twin and Generative AI to gauge their impact on operational efficiency and productivity
- ★ Examining the digital integration in the upstream sector amidst disruptions, technology transitions, and an agile workforce, while simultaneously evaluating the cybersecurity risks associated with enhanced technology deployment
- ★ Improving business efficiency through digitalization in Asset Performance Management, emphasizing effective data handling and operational models
- ★ Exploring the critical role of a Digital Twin and a data-driven ecosystem in the Sustainable Roadmap for achieving a Net Zero Future through the process of decarbonization
- ★ Highlighting best practices and real-world examples in understanding the dynamics between operators and vendors, focusing on roles, data ownership, and collaborative pathways
- ★ Navigating opportunities and challenges in corporate adaptation and change management while redefining leadership models

Our Session Glimpse





AMONG OUR REGULAR ATTENDEES



CONFERENCE IN NUMBERS

1350+
Attendees

650+
Companies

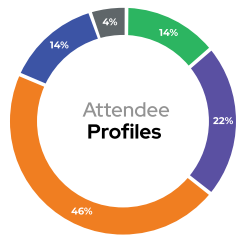
24+
Technical
Speakers

18+
Sponsors &
Exhibitors

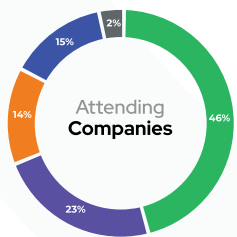
45+
Countries

45+
Media Partners

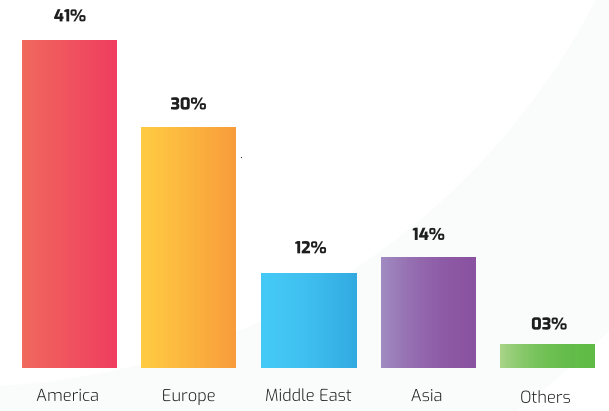
Statistics of previous conference



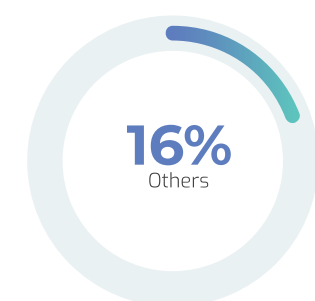
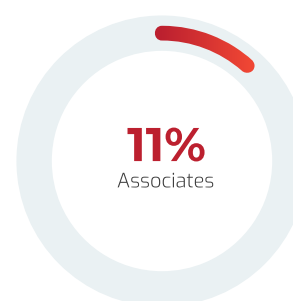
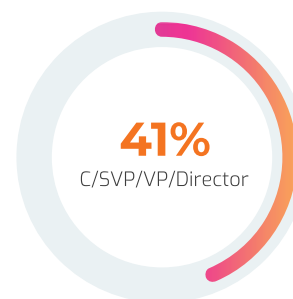
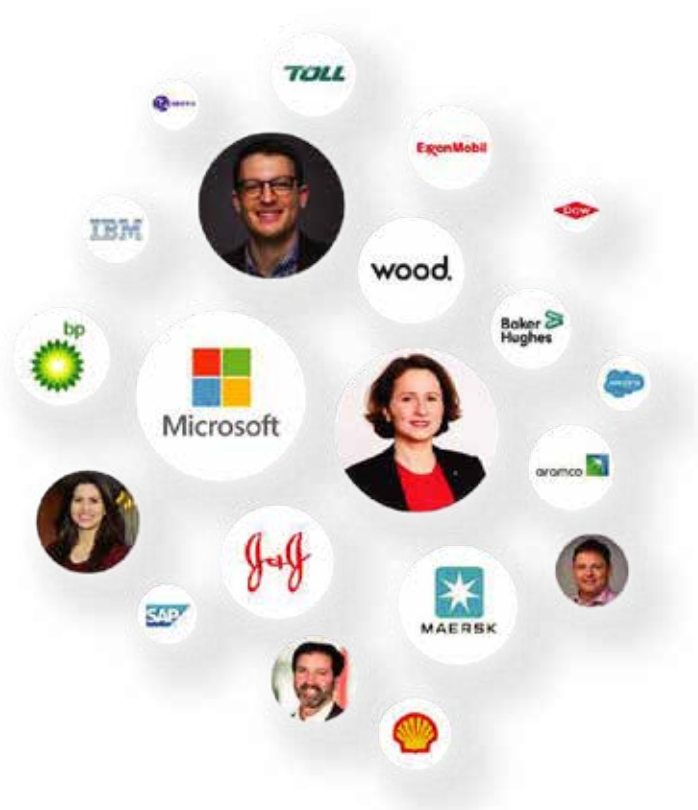
- Government Executive - 14%
- Top Management - 22%
- Project Directors, Head of Technical Dept - 46%
- BD, Sales and Marketing - 14%
- Leading Technical Specialist - 04%



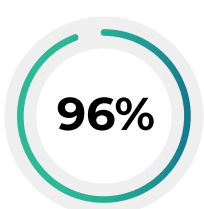
- Oil Companies - 46%
- Refineries and Petrochemical Plants - 23%
- EPC - 14%
- Service Companies - 15%
- Research Institutes - 02%



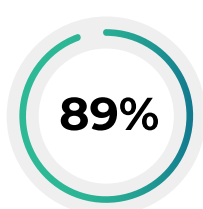
Attendee Seniority level breakdown



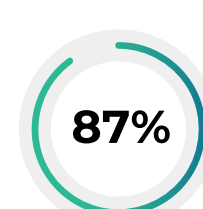
Attendee Survey Report



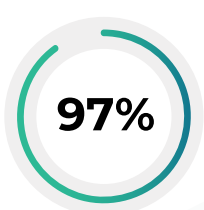
of respondents found the event to be a valuable use of their time



of respondents agreed that the virtual event was easy to understand, access, and navigate through



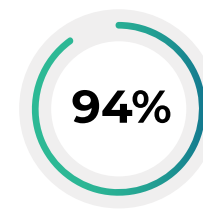
of respondents attend 4 or fewer conferences a year, making digital twin conference a valuable place to connect with this audience



of respondents said they are likely to join this event next year



of respondents found the conference content & sessions to be informative and useful



of respondents would recommend attending this event to a friend or colleague

*Based on the attendee survey report from May, 2023

SPEAKING OPPORTUNITIES



SPEAKING SESSION

30 minutes session includes **10 min** of Q&A's

- Live sessions in-front of delegates
- **20 minutes** for the presentation **+10 minutes** for Q&A's
- Certificate of Appreciation
- Session should be based on conference theme/key topics only



PANEL DISCUSSION

1 hour session for 5 speakers

- Live panel discussion in-front of all delegates
- Certificate of Appreciation
- Discussion between panelists only

* Please note that Speaker package is available only after the topic approval by the Production team.

Want to become a speaker?

Get in touch with us for more information on Speaking opportunities!

Misbah Shaikh

Conference Producer & Speaking Opportunities

misbah.shaikh@ptnevents.com



Day 1 | Thursday, May 02, 2024


(Agenda as of 2 May, 2024 and subject to change)

● Sponsored Sessions ● Booked Sessions ● Available Sessions

08:15
Opening Remarks

08:30
Operation excellence & Digital transformation go hand-in-hand


- Digital Transformation – Driving the adoption & Future of Operation Excellence
- Operational efficiency improvement opportunities from average to top quartile performers . with DX
- DX impact on Operation Excellence:

 **Arun Kumar**
General Manager (Operation Excellence & Engineering), **HPCL-Mittal Energy Limited**



09:00 | PLATINUM SPONSOR
AI-driven optimization in real-time, across oil and gas operations

- Optimizing complex production and process systems requires predictability in real-time
- Physics-informed AI (PIAI) is a breakthrough AI model builder that fuses physics-based simulation and process data, with models built in hours not months
- Advisory control enables operators to enhance profitability and reduce carbon footprint in real-time
- The approach is highly flexible and portable—applicable to myriad use cases suitable even when data sets are sparse


 **Linnea Russell**
Asset Performance Product Manager, **SLB**

 **Greg Fallon**
CEO, **Geminus.AI**



09:30
Uncomplicate Liquid Cooling: Save Power & Drive Digital Twin Performance with Self-Contained Liquid Cooling


- Microconvective Liquid Cooling: Overcome thermal challenges in digital twin computations using single-phase direct liquid cooling technology.
- Efficient Liquid Cooling Deployment: Explore JetCool's innovative, self-contained liquid cooling systems on Dell PowerEdge servers, reducing server power consumption by up to 15%.
- Futureproof Server Infrastructure: Implement a phased liquid cooling strategy with Dell PowerEdge servers, transitioning from self-contained to facility-ready setups.

 **Dr. Bernie Malouin**
Chief Executive Officer, **JetCool**



10:00
Data informed decision making: how to let data and intuition work in a great marriage.

- Did you know that 58% of software companies base their regular business decisions on intuition alone?
- Do you agree that these companies are endangering the future of their existence by NOT incorporating objective data in their decision making process?
- How you can improve your teams in a sustainable manner by leveraging metrics?
- The importance of metrics, which ones to choose as the most effective set in your context and how to get started with collecting all necessary data.
- How to make more effective decisions by letting data and intuition work in harmony.


 **Stephan Vlieland**
Hiring Manager, **Shell**



Networking Break _____ 10:30 (1 hour)

11:30
Current state of the Mexican natural gas network


- Mexican Grid Expansion History
- Changing regulatory framework
- What is Next?
- Conclusions


 **Carlos Tapia**
Chief Executive Officer and Owner, **Balam Energy**



12:00
The future of digital twins in orbital Spaceport construction and microgravity mining operations in the 5th Industrial Revolution.

- The Space Economy is the 5th Industrial Revolution.
- Just as oil fueled the 4th Industrial Revolution, so too will "rare earth" minerals mined from asteroids and meteors fuel the economy of the 5th Industrial Revolution.
- This presentation will outline the crucial role that digital twins, AI and autonomy play in successfully launching expeditions to capture Quadrillion dollar resources in microgravity.


 **Samson Williams**
serial entrepreneur and accidental investor, **University of New Hampshire**

 **George Pullen**
Blockchain, Deep Tech and Space Economics, **University of New Hampshire**



12:30 | SESSION SPONSOR
The Digital Twin. It's not just for breakfast anymore.


- If the lifecycle of a plant could be compressed into a single day, engineering, and constructing that plant would occur over breakfast. And as they say, breakfast is the most important meal of the day. To take this analogy a step further, what is eaten for breakfast can potentially affect how lunch and dinner goes. In other words, a terrible breakfast could lead to a terrible day - lunch and dinner are had through bad choices.
- This goes on, and eventually a transformation is needed. And like all digital transformations, they are painful and expensive. And this "breakfast" doesn't have to be at The Four Seasons. It can be prepared in the average company's own kitchen, using tools likely already owned and used.
- Getting the digital twin right in the beginning and using it the way it is meant to be used - a key component in today's Operations Technology - can prevent a costly digital transformation later. It has the capability to push the facility to first-quartile performance much faster than ever expected or envisioned.

 **James Haw**
Vice President of Automation and Digital Strategy, **Operations Technology Specialists, LLC**



13:00
The challenges of Green Field vs Brownfield DT

- Asset Information Management
- Project Datasets Handover
- Management of Change


 **Alberto Iniesta Serrano**
Director - Worley Customer Solutions, **Worley**



Networking Break _____ 13:30 (30 Min.)

14:00 | SESSION SPONSOR
Leveraging Digital Twins for Private Networks in Oil & Gas


- Revolutionizing in-building cellular design in oils and gas with digital twins to eliminate repetitive surveys and deliver superior network performance.
- How to cut costs, improve worker safety in hazardous environments, and future-proof your infrastructure with this cohesive network design approach.

 **Nazim Choudhury**
Director Market development, **ibwave**



14:30
Insertion of Artificial Neural Network Algorithms into Digital Twins for Process Monitoring


- Companies rely on various equipment to produce goods and services, but degradation over time can lead to failures. Maintaining equipment in good condition is crucial to ensure production performance and prevent additional costs, downtime, and environmental damage. Maintenance, aiming for availability, reliability, and safety, is essential. However, many maintenance models face challenges by considering only the health of components without information about system reliability. The increase in production data can be an advantage, and predicting failures through a neural network trained with operational data can be valuable support for

 **Silvio Cesar Godinho Teixeira**
Company man in Buzios, **Petrobras**



15:00
Advanced digital twin technology from the nuclear sector – Applicability in the oil&gas.

- The presentation explores HADRON lab's pioneering efforts at IFE, emphasizing AI, data, and robotics for safety in nuclear and other critical industries.
- Ongoing and upcoming European projects and working groups will be showcased, reflecting IFE's cutting-edge research.
- Advanced trends in digital twin and robotics innovation promoted by the DigDECOM conference, hosted by IFE as an international center, will be highlighted.

 **István Szóke**
Research Manager of the Applied Physical Sciences department, **Institute for Energy Technology**



End of Day 1 _____

Day 2 | Friday, May 03, 2024

(Agenda as of 2 May, 2024 and subject to change)

● Sponsored Sessions ● Booked Sessions ● Available Sessions


08:15

Opening Remarks

08:30

Generative AI : Experiences in business applications for Procurement & SupplyChain

- Gen AI Potential : Look beyond drafting emails and images. Gen AI can do much more for day to day tasks like Market intelligence, Contract Analytics and Autonomous Negotiations.
- Data confidentiality concerns : Are you comfortable sending your data & queries to cloud-based AI models ? Laptop based locally running AI models are a potential solution.
- Experiences from real experiments : I'll share one of the following usecases:
- Market intelligence : Comparison of outputs from 4-5 models (Cloud vs Laptop, Large model vs small model)
- Autonomous Negotiations : Negotiations between two BOTs.

 **Lovleen Chadha**
Founder & CTO, **qapp.ai**



09:00

Making a Business Case for Developing an E-Governance Solution for Process Safety Management (PSM) Compliance

- This presentation will describe the key issues faced by both the government regulatory bodies and process plant facilities, with the current non-digital (manual) method of PSM implementation, audit, and compliance. Recent modernisation initiatives of safety regulations undertaken by federal regulatory bodies such as OSHA and EPA in the United States are explained in the context of achieving the PSM compliance effectively and efficiently. The presentation will also report the outcome of a study on detailed comparison between OSHA's 1992 regulatory impact analysis study and 2023 information collection requirement burden hour and cost estimate and will report the estimated total economic burden of PSM compliance on the existing and future PSM covered facilities in the United States. The presentation will also unveil the idea of an e-governance solution that will potentially eliminate all the efficiency and effectiveness concerns faced by regulatory bodies and process plants in achieving a successful PSM implementation and comprehensive regulatory compliance in the United States of America.

 **Dheeraj Kumar Narang**
Technical lead, Digital Manufacturing Services, **University of Science & Technology, PA**



09:30 | GOLD SPONSOR

Inspection and IMR Transformation using Generative AI

- Using AI to create an optimized Life of Field plan
- Enaimco Operational Twin - Use cases driving IMR and Life of Field optimization
- Enaimco Vision for the Future


 **John Cadigan**
Director of Projects, **Enaimco**



10:00

Data to Digital Twin in Oil and Gas Industry

- Brief Overview of Organization
- Digital Execution in EPC
- Data is Oil

 **Vinayak Kharche**
Head Of Information Systems and Automation, **Adani Petrochemicals**




Networking Break

10:30 (30mins)

11:00 | GOLD SPONSOR

Revolutionizing Oil & Gas Operations: Unleashing the Power of Digital Twins with IAPM

- The Digital Twin Revolution: Explore the transformative potential of digital twins in the oil & gas industry, and how they enable real-time monitoring, predictive maintenance, and improved decision-making.
- IoT-Driven Data Insights: Learn how Internet of Things (IoT) data sources are harnessed to create a comprehensive digital replica of your assets, providing unparalleled insights into operations, safety, and efficiency.
- AI-Powered Asset Management: Discover how Artificial Intelligence (AI) supercharges your asset management strategies, optimizing maintenance, reducing downtime, and enhancing the ROI of your oil and gas assets with IAPM.

 **Matteo Dariot**
Business Development and Sales Manager, **Bosch**



11:30

Innovations in Productivity Maximizing Digitalization Strategies.

- We (23 plants) did a study for AFPM on digitalization in action in global projects and results are reported in the presentation.
- Specifically highlighted is AI data management, digital engineering and planning in pre-feed applications and the digitalization surrounding construction in maintenance and capital projects.

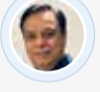
 **George Perrett**
Operational Excellence Director, **Peri USA**



12:00

Leveraging Digital Twin and Generative AI to gauge their impact on operational efficiency and productivity

- Understanding Digital Twins
- Transforming Chemical Manufacturing with Digital Twins
- Generative AI and Digital Twins Usecases at IOCL
- Key Considerations for Success and Future Planning

 **Manish Grover**
Executive Director (Strategic IS & IS), **Indian Oil**



Networking Break

12:30 (30mins)

13:00

Using Generative AI in Brownfield Engineering Projects in the Upstream Oil & Gas Sector

- In recent years, we have seen rapid advancements in fields such as artificial intelligence (AI), predictive analytics, and machine learning. While these technologies hold great promise for improving our lives and making
- The future
- Benefits for Brownfield Operations
- Risks (Opportunities/Threats)

 **Emmanuel Haizel**
General Manager - Engineering & Projects, **Mansa Engineering**




13:30

Available Session

14:00

Revolutionizing Industry: The Autonomous Process Plant and Digital Twin Integration

- Automates plant operations with Digital Twin technology linking process and control models
- Optimizes plant areas using basic regulatory (PID), advanced regulatory (Cascade, Ratio, Feedforward), or Advanced Process Control (APC)/Model Predictive Control (MPCD)
- Enhances data collection with smart sensors, ensuring proper maintenance of plant assets
- Integrates equipment and process data to navigate the best production path, revolutionizing process design


 **Brad Carlberg**
Consulting Control Systems Engineering, **BSC Engineering**



14:30 | SESSION SPONSOR

Using AI / ML and Data Analytics to Optimize the STO (Shutdown, Turnaround , Outage) Work Process and Performance

- STO events have large business impact on an asset due to the cost of the event, the lost profit opportunity while the asset is offline, and the potential for safety and environmental impacts during the event.
- Many of industry's leaders have adopted a standard STO work process that contains key elements to deliver high degrees of STO readiness.
- Experience shows that the critical success factors for achieving desirable STO outcomes involves both the quality of the work process and the quality of its implementation.
- AI/ML techniques help us better understand large and highly complex data to help organizations make better decisions and optimize their work process to derive greater value and achieve better STO performance (quality of the work process)
- This presentation will provide real life examples of how we have used AI/ML to improve STO process and outcomes for oil and gas companies.


 **Brett Schroeder**
CEO, **AP-Networks**



15:00

Digital twins in manufacturing operational excellence

- Differences in approaches to digital twins – planning, simulation, prediction, real-time/live
- Live digital twins in the manufacturing world
- Examples from existing projects and where is the money

 **Michal Ukropec**
CEO, **Twinzo**



End of Day 2



DELEGATE PASS INCLUDES FOLLOWING

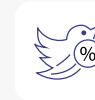
- Watch any talk live during the conference days
- Certificate of participation
- Q&A discussions
- Full access to all tracks and break out sessions
- Online platform to view presentations and virtual exhibition
- Online access to selected post-conference materials
- eBook of conference proceedings
- Visit virtual Exhibition during the breaks
- Networking opportunities on the Exhibition Floor
- Access to all networking activities



SUPER EARLY BIRD

Window closing on **Dec 10, 2023**

USD \$299
(Exclusive of service charge)



EARLY BIRD

Window closing on **Mar 05, 2024**

USD \$399
(Exclusive of service charge)



REGULAR PASS

Window closing on **May 02, 2024**

USD \$499
(Exclusive of service charge)

10% OFF
GROUP OF 2

15% OFF
GROUP OF 3

20% OFF
GROUP OF 5

Interested in Participating as a group?

Get in touch with the team for more information on group discounts

DELEGATE SUPPORT TEAM

info@ptnevents.com, +1 (640)-800-2228

www.digital-twin-conference.com/delegate_packages

SPONSORS & EXHIBITORS OF CONFERENCE

Gold Sponsors



Session Sponsors



Visitors Feedback On Exhibition



rated the exhibition in terms of value addition



would recommend event to others in their field



rated the exhibition good to excellent



rated technical content as good to excellent



	TITLE PACKAGE	PLATINUM PACKAGE	GOLD PACKAGE	EXHIBITOR PACKAGE	SESSION PACKAGE
BRANDING & PROMOTIONS	USD \$8799 USD \$10599	USD \$3499 USD \$4199	USD \$2699 USD \$3299	USD \$1099 USD \$1499	USD \$899 USD \$1299
An Announcement on Social Networks	✓	✓	✓	✓	✓
Logo placement and sponsorship title on the Event website	✓	✓	✓	✓	✓
One Advertisement section (placement) on the conference website home page	✓	-	-	-	-
One Advertisement section (placement) on the conference brochure (Full Page)	✓	✓	-	-	-
Email-Blast of Speaking Session to all delegates	✓	✓	✓	-	-
Logo visibility in all pre and post show promotion	✓	✓	✓	-	-
Premium Virtual Booth	✓	✓	✓	✓	-
Download Copy of all Participant List	✓	✓	✓	-	-
CONFERENCE ACCESS					
Speaker Pass and Co-Speaker Pass	3	2	1	-	1
30 Minutes Premium Speaking Slot (Includes 10mins of Q&A's)	✓	✓	✓	-	-
Special registration discount for all additional delegates	20%	15%	15%	10%	-
Virtual Table for 1-to-1 Meetings	✓	✓	✓	✓	-
VIP Meetings	5	2	0	0	0
Complimentary full access delegate passes	8	6	4	2	1
Sponsorship announcement at the conference opening remarks	✓	✓	-	-	-
POST CONFERENCE MATERIAL					
Download Copy of all participants list	✓	✓	✓	-	-
Data Analytics of your Speaking Session	✓	✓	✓	-	-
Data Analytics of your Booth	✓	✓	✓	-	-

TESTIMONIALS AND EXPERIENCE



Thanks very much for this opportunity. I was impressed by the quality of your event. It was as well run and organized as I've ever attended.

Rafiq Khurshid | IT Specialist & Counsultant



Thank you for giving us a chance to participate, it was a great experience and super organized platform.

Atheer Alatter | Lead Data Scientist



I am happy to join the great team of speakers and thanks for having me on this awesome event. Excellent teamwork. Hope be with you next time.

Vitor Do Valle | Head of Centre of Excellence



Thank you, team for the Certificate. As mentioned before, I truly appreciate the prompt communication, prep call and accommodating my change of date. I look forward to partnering with ptn events in future.

Arthi Vasudevan | Senior Product Manager



Thank you very much for your support during this event. I think that overall it went well.

Gerardo Muñoz | Product Marketing Manager



Thank you for Sharing. I should have mentioned this in my feedback; some of the best i have seen for any conference, Live or Virtual. Awesome Event!

Lennart Heip | Global Modal and Technology



We are excited to join this great event. Sign up to hear a speech from Michal Paulski on Cybersecurity during the Oil and Gas Automation & Digitalization Conference.

Michal Paulski | Senior Manager



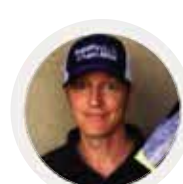
Many thanks to you the incredible team for organizing the event. Watching for 2 days was very insightful and your team efforts to organize everyone from around the created the success.

Johnathan Finlayson | Project Logistics Director



Thank very much for the opportunity. I was sincerely impressed by the quality of your event. It was as well run and organized a conference as I've ever attended. All of the sesssions i was able to attend were excellent - really informative.

Tan Miller | Director, Global Supply Chain Management Program



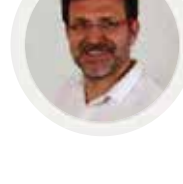
Oh man, some of my favorite folks in freight are the container shipping right now.

Mike Bush | Terminal Relationship Manager



It was a valuable session and great learning from Global leader, It was amazing conference, Thanks a lot.

Pankaj Gupta | Global Sourcing



We managed to be in touch with good leads. User-friendly and very professional staff all along the sponsorship journey.

Carl Lauron | Founder



ABOUT ORGANIZER

PTN Events, a premier organizer of cutting-edge B2B conferences that seamlessly blend business and knowledge. At the forefront of the industry, we curate exclusive gatherings that transcend borders, bringing together a dynamic mix of corporates, governments, associations, industry leaders, and high-net-worth individuals.

Our conferences serve as global forums where industry visionaries converge to explore and navigate the transformative landscape of cutting-edge technologies. As catalysts for innovation, we facilitate robust discussions and collaborations that transcend geographical boundaries.

At PTN Events, we pride ourselves on creating an immersive environment where knowledge flows freely, and connections flourish. Whether you're a corporation seeking strategic partnerships, a government entity exploring policy implications, or a thought leader on the brink of the next big idea, our conferences provide the platform to engage with the pulse of industry evolution. Join us in shaping the future!

Get in touch with us on enquiry info@ptnevents.com



Our Flagship Events



Oil & Gas **Automation and Digitalization Conference 2024**

Leveraging the technology innovation and Digital Revolutions. This Conference creates an Opportunities to boost Profitability and Strategies to Maximize Efficiencies in Oil and Gas Production.

www.ogad-conference.com



Oil & Gas **Digital Transformation Conference 2024**

Leveraging the technology innovation and Digital Revolutions. This Conference creates an Opportunities to boost Profitability and Strategies to Maximize Efficiencies in Oil and Gas Production.

www.digital-transformation-conference.com



Digital Oilfield Conference 2024

Leveraging the technology innovation and Digital Revolutions.

www.digital-oilfield-conference.com



Artificial Lift Summit 2024

The Artificial Lift Summit brings E&P Innovators, Service Providers and Independent Operators together to exchange ideas to advance technical knowledge in artificial lift applications for unconventional shale developments.

www.artificial-lift-summit.com

CONTACT US

To Find Out How To **Be A Part Of Our Community**,
Contact Us At

Henry Stewart

Delegate Registration & Group Sales Enquiries

henry.stewart@ptnevents.com

+1 (609)-331-9161

Chris Lee

Sponsorship & Media Director, Global Partnership

chris.lee@ptnevents.com

+1 (640)-800-2228

Kara Robbins

Delegate Registration & Group Sales Enquiries

kara.robbins@ptnevents.com

+1 (640)-800-2228

Misbah Shaikh

Conference Producer & Speaking Opportunities

misbah.shaikh@ptnevents.com

+1 (640)-800-2228

Hazel Smith

Sponsorship Sales Manager

hazel.smith@ptnevents.com

+1 (640)-800-2228

www.ptnevents.com/conferences/dtwin2024

Managed
& Organized by **ptn** events