Oil & Gas Digital Twin
Conference & Exhibition 2024

May 02 - 03, 2024 | 100% Virtual

Discover latest solutions and emerging trends in the industries!

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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/Key Topics

★ 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
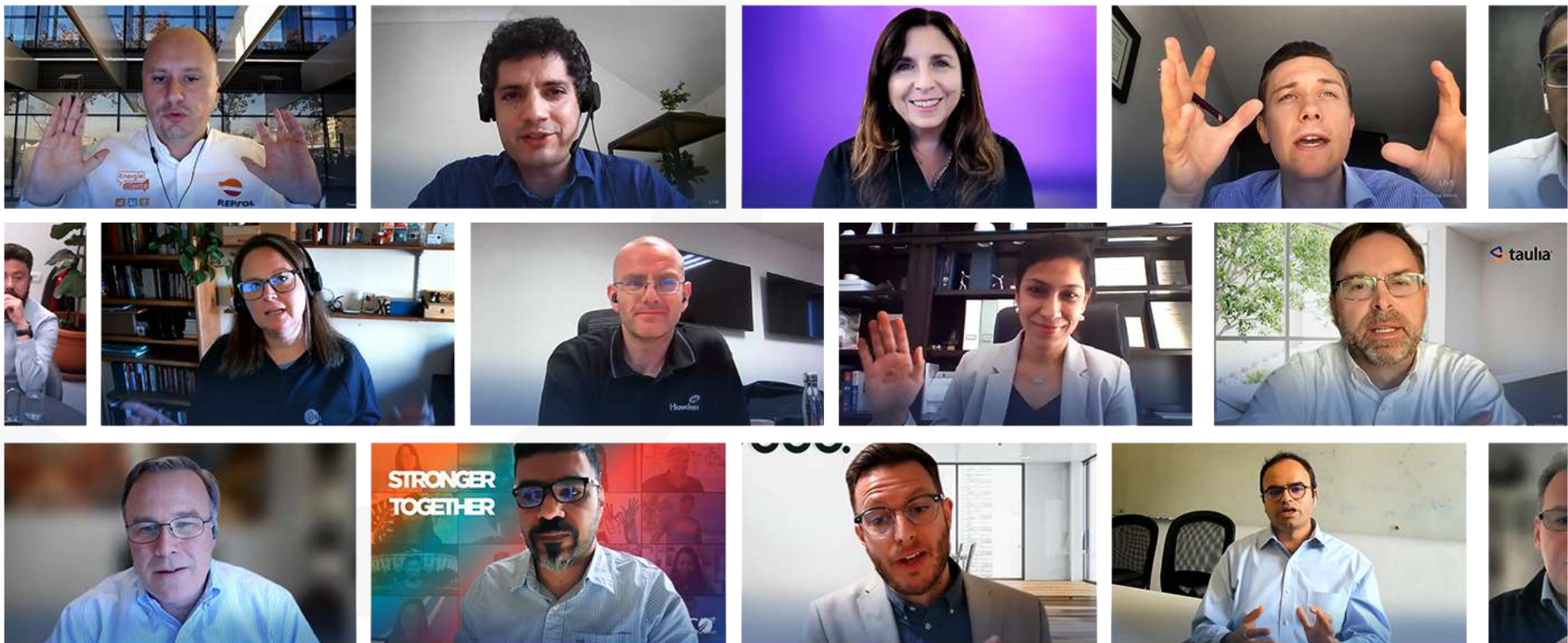
CONFERENCE IN NUMBERS

1350+
Attendees

650+
Companies

24+
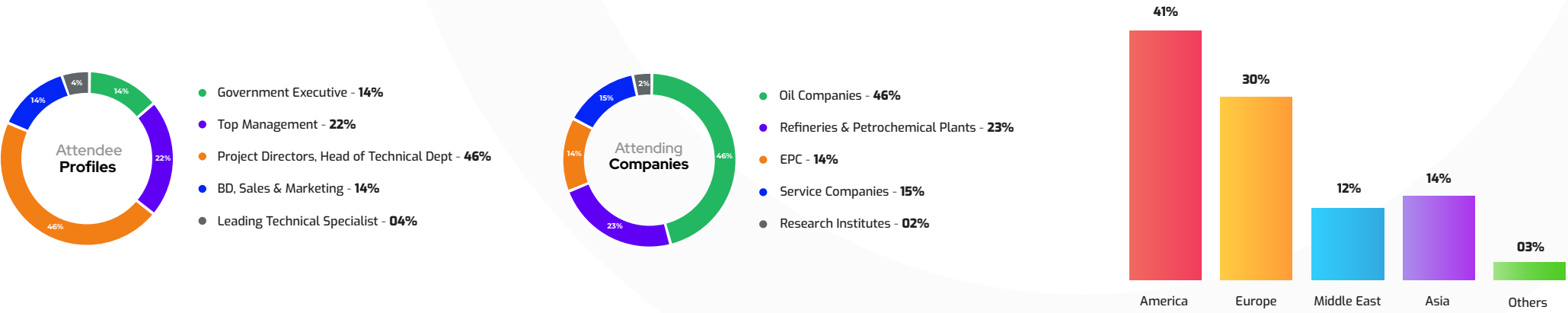Technical Speakers

18+
Sponsors & Exhibitors

45+
Countries

45+
Media Partners

Statistics of previous conference

Attendee Profiles
- Government Executive – **14%**
- Top Management – **22%**
- Project Directors, Head of Technical Dept – **46%**
- BD, Sales & Marketing – **14%**
- Leading Technical Specialist – **04%**

Attending Companies
- Oil Companies – **46%**
- Refineries & Petrochemical Plants – **23%**
- EPC – **14%**
- Service Companies – **15%**
- Research Institutes – **02%**

Bar chart:
- America 41%
- Europe 30%
- Middle East 12%
- Asia 14%
- Others 03%

Attendee Seniority level breakdown

41% C/SVP/VP/Director

32% Head/Manager

11% Associates

16% Others

Attendee Survey Report

96% of respondents found the event to be a valuable use of their time

89% of respondents agreed that the virtual event was easy to understand, access, and navigate through

87% of respondents attend 4 or fewer conferences a year, making digital twin conference a valuable place to connect with this audience

97% of respondents said they are likely to join this event next year

95% of respondents found the conference content & sessions to be informative and useful

94% 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 mins session includes **10 mins 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!

Vatsal Patel
Conference Director & Speaking Opportunities
Vatsal@ptnevents.com, +1 (201)-856-6505

Day 1 | Thursday, May 02, 2024

(Agenda as of 04 Jan, 2024 and subject to change)

● Sponsored Sessions   ● Booked Sessions   ● Available Sessions

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08:15

Opening Remarks

08:30

Operation excellence & Digital transformation go hand-in-hand

- Digital Transformations – 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
GM, Head Of Maintenance & Reliability, **HPCL-Mittal Energy Limited**

09:00

The Role of Standards, Research and White Papers for Efficient Digital Twin

- Establishing a Framework for Interoperability: Definition and Importance of Interoperability in Digital Twins: Explore what interoperability means in the context of digital twins and the Role of Standards in Ensuring Interoperability
- Data Quality and Security Standards: Discuss how the accuracy and reliability of data are crucial for the effective functioning of digital twins. Address the security challenges in digital twin technology and the role of standards in ensuring data protection and cybersecurity.
- Future-Proofing and Scalability Through Standardization: How standardisation can facilitate the scalability of digital twins, making them adaptable to various operational scales and scenarios.

Mostafa ElAshmawy
Head of BIM & GIS, **WSP**

09:30 | **GOLD SPONSOR**

Revolutionizing Operational Efficiency and Profit Margins in Oil & Gas Through Blockchain Solutions

- Blockchain's Role in Digital Transformation within the Oil & Gas Industry
- Operational Case Studies: Implementing Blockchain for Enhanced Supply Chain Transparency and Smart Contracts
- Strategic Planning: A Guide to Transitioning Smoothly to Blockchain-Based Solutions in Oil & Gas

Harold Heard
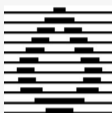CEO, President and Chairman, **A Real Blockchain Solution (ARBS)**

10:00

The Emerging Digital Energy Landscape: Integrated, Interconnected & Secured

- Increased digital intensity & maturity
- Citizen Digital Workforce
- mmersive, collaborative, holistic visualization

Mohammed AlGhazal
CEO, **Noor Energies Group**

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 | **SESSION SPONSOR**

Securing Digital Twins in Oil & Gas: A Cybersecurity Perspective

- The evolving threat landscape targeting digital twins in the oil & gas sector.
- Implementing AI and ML for proactive cybersecurity measures.
- Case studies: How robust cybersecurity can save millions in potential losses.

Kanishk Gaur
Founder, **India Future Foundation**

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.

Gregory N. Smallwood
Project Engineer, **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 (30mins)

14:00 | **SESSION SPONSOR**

In the oil and gas industry, digital twins can be used to improve efficiency in a variety of ways, including

- Predictive maintenance: Digital twins can be used to predict when and where equipment is likely to fail, allowing for preventive maintenance to be performed before problems occur. This can help to extend asset life, reduce downtime, and improve safety.
- Optimized operations: Digital twins can be used to simulate different operating scenarios, allowing operators to identify the most efficient and cost-effective way to operate their assets. This can help to improve production rates, reduce costs, and increase profitability.
- New product development: Digital twins can be used to test new products and technologies in a virtual environment, reducing the risk of failure and speeding up the development process. This can help to bring new products to market faster and improve their competitiveness.

Michael Fontaine
Vice President of Project Management, **Falcon Project Consultants**

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

Available Session

End of Day 1

Day 2 | Friday, May 03, 2024

(Agenda as of 04 Jan, 2024 and subject to change)

● Sponsored Sessions   ● Booked Sessions   ● Available Sessions

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08:30 | SESSION SPONSOR

Total-Ex "The Single Source of Truth"

- "Explosive Hazardous Area Compliance - Digital Management of your Explosive Hazardous Area data via Total-Ex, The LIVE HAVD."
- "Integration With Digital Twins - Total-Ex tag associates all known data for a tags compliance. Aligning with ANY digital twin environment is as simple as an API call."
- "Human Error Elimination - By codifying all of the EEHA equipment compliance requirements we have eliminated the human error component to compliance."

Aaron Drew
Director & Engineering Manager, CPEng NPER, **Totalex**

09:00

Have digitalization benefitted upstream oil and gas production

- Since 2012 upstream operators has been investing substantially in digitalization, but Solomons data on operational cost and production efficiency raise doubt on the benefits
- What is failing, scope, solutions, change or something else?
- Are upstream business ready for the use of digitalization or are our business just to complex?

Per Hjorth Gren
BU Performance Solution Manager, **Solomon Associates**

09:30

The Human Side of Emerging Tech - AI, Predictive Analytics, Machine Learning

- 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 organizations more efficient, we must not forget that they are ultimately designed and operated by humans.
- Pop culture represents what I like to call the "Terminator Effect" which associates automation and autonomous systems with a level of fear. From replacing the human workforce to a full-on global takeover. In reality, we should not fear these technologies, but rather strive to understand them better so that we can use them more effectively.
- "When used correctly, AI, predictive analytics, and machine learning can help us make better decisions, improve organizational efficiency, and even free up our time so that we can focus on more important tasks. However, we must remember that these technologies are only as good as the data that they are given and the humans who design and operate them."

Kyler Cheatham
Global Marketing Director, **Third Stage Consulting Group**

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**

adani

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 Dariol
Business Development and Sales Manager, **grow platform, A Bosch Company**

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**

PERI

12:00 | SESSION SPONSOR

Revolutionizing Oil & Gas with Advanced Digital Twins and Generative AI

- "Exploring the Evolution of Digital Twins: From Conceptualization to Advanced Industry 4.0 Integration'" - Tracing the history and advancements in digital twin technologies and its pivotal role in the modern Oil & Gas industry."
- "Harnessing Real-time Data: Enhancing Predictive Maintenance, Safety, and Efficiency in Oil & Gas Operations'"
  - "'Applying Digital Twins and generative to Revolutionise the Oil & Gas Industry'"
  - Delving into the merger of real-time data and digital twins, focusing on predictive analytics, risk mitigation, and increased operational efficiency."
- "Future Roadmap: Leveraging Digital Twin and Industry 4.0 for Sustainable and Resilient Oil & Gas Production'" - Discussing forward-looking strategies, highlighting the potential of digital twins combined with Industry 4.0 in paving the way for a more sustainable and resilient energy sector."

Susant Mallick
Founder & CEO, **CloudHub**

CloudHub

12:30 | SESSION SPONSOR

BIM-based Common Data Environment as the Lifecycle Digital Twin for Industrial Assets

- Digital Twins of industrial assets are created not only in 3D authoring applications, but also contain unstructured data present in photos, drawings, O&M manuals, as well as time-series data sets generated by sensors and meters. To collate all that information in a structured way throughout the facility life cycle we need to follow open industry standards for asset classification, data exchange standards, and consider harmonization between standards prevalent in different industries (for example, CHIFOS and IFC). The presentation will share lessons learned implementing BIM-based Digital Twins using Siemens Building X Lifecycle Twin (ex-Ecodomus) in various industries, including oil and gas as well as industrial and commercial construction.

Igor Starkov
VP, Digital Twin, **Siemens Industry, Inc.**

SIEMENS

13:00

Available Session

Networking Break ——————————————————————————— 13:30 (30mins)

14:00

Available Session

14:30

Available Session

15:00

Available Session

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

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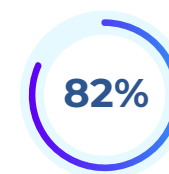## Session Sponsors

Visitors Feedback On Exhibition

96% rated the exhibition in terms of value addition

92% would recommend event to others in their field

88% rated the exhibition good to excellent

82% rated technical content as good to excellent

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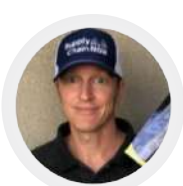
Oh man, some of my favorite folks in freight are the container shipping right now.

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**

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www.ogad-conference.com

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