NACE® Nonmetallics Virtual Seminar

28 September 2020 | 9 a.m. – 2 p.m. AST (GMT+3)
Thank You to Our Sponsors

Technical Committee

Dr. Talal Al Nabhani, PDO
Mr. Ramachandrappa Ramanahalli, PDO
Mr. Ihsan Taie, Saudi Aramco

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<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Speaker</th>
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<tr>
<td>8:45 - 9:00 a.m.</td>
<td>Attendee check-in</td>
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<tr>
<td><strong>Session 1</strong></td>
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<tr>
<td>9:00 - 9:15 a.m.</td>
<td>Opening and Welcome Speech</td>
<td>Dr. Gasem Fallatah/ Dr. Talal Nabhani</td>
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<tr>
<td>9:15 - 9:50 a.m.</td>
<td><strong>Keynote Presentation:</strong> Challenges and practices in aligning industry standards to achieve technical integrity of non-metallic pipes</td>
<td>Nasser Al Behlani, Materials and Integrity Manager, PDO</td>
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<tr>
<td>9:50 - 10:10 a.m.</td>
<td>Thermoplastic liners in oil and gas industry</td>
<td>Imran Kharusi, Materials and Corrosion Engineer, PDO</td>
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<tr>
<td>10:10 - 10:30 a.m.</td>
<td>Applications, design and qualification of bounded and non-bounded thermoplastic composite pipes</td>
<td>Ramin Moslemian, Principal Specialist and Business Developer for Non-metallics, DNV-GL</td>
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<tr>
<td>10:30 - 10:50 a.m.</td>
<td>A material solution for new frontiers of HPHT applications in oil &amp; gas</td>
<td>Lan de Gans-Li, Evonik Operations GmbH (Smart Materials)</td>
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<tr>
<td>10:50 - 11:10 a.m.</td>
<td>SurFlow™: The future of data transfer in composite structures</td>
<td>Chris Worrall, Consultant, TWI</td>
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<td>11:10 - 11:25 a.m.</td>
<td>Q&amp;A</td>
<td>Ramachandrappa Ramanahalli, PDO</td>
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<td>11:25 - 11:35 a.m.</td>
<td>Break</td>
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<td><strong>Session 2</strong></td>
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<tr>
<td>11:35 - 12:10 p.m.</td>
<td><strong>Keynote Presentation:</strong> Evolution of nonmetallic piping in oil and gas industry</td>
<td>Dr. Adel Badghaish, Vice President of Engineering, NOV</td>
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<td>12:10 - 12:30 p.m.</td>
<td>Designing high performance polymers to expand operating windows of flexible pipe system</td>
<td>Alexis Geslin, Technical Polymers - Business Development, Arkema</td>
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<td>12:30 - 12:50 p.m.</td>
<td>Expanding the service envelope of flexible steel pipe</td>
<td>Andy Ethridge, Director of Technical Services, FlexSteel</td>
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<td>12:50 - 1:10 p.m.</td>
<td>The challenges in RTP qualification and quality assurance</td>
<td>Lennert Bakker, Technical Sales Engineer, Soluforce</td>
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<td>1:10 - 1:30 p.m.</td>
<td>SC09 nonmetallics standards committee</td>
<td>Michael Yee, Chief Executive Officer, RTConsults</td>
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<td>1:30 - 1:45 p.m.</td>
<td>Q&amp;A</td>
<td>Ihsan Taie, Saudi Aramco</td>
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<td>1:45 - 1:55 p.m.</td>
<td>Closing Speech</td>
<td>Dr. Gasem Fallatah/ Dr. Talal Nabhani</td>
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Nasser Al Behlani
Materials and Integrity Manager, Petroleum Development Oman

Presentation: Challenges and practices in aligning industry standards to achieve technical integrity of non-metallic pipes

Nasser Al Behlani has been leading the Material Integrity Management Group in Petroleum Development Oman since 2005. He is responsible for the full material life cycle from design through technical integrity assurance, and from wells material to gathering & processing facilities and hydrocarbon transmission & loading. He has actively involved in the development, deployment and assessment of nonmetallic materials since the late 80s. Nasser has vast contributions on many projects by utilizing nonmetallic pipes for exotic application where these materials become the enablers for strategic capital projects. He has overseen several studies to assess integrity of nonmetallic pipelines and flowlines that are close-to or exceeded their design life and has successfully extended the shelf life for up to 20 years. Part of Nasser's job responsibilities is establishing “fit for purpose” material standards and technical specification, which is the subject of his presentation today.

Dr. Adel Badghaish
Vice President of Engineering, NOV

Presentation: Evolution of nonmetallic piping in oil and gas industry

Dr. Adel Badghaish is the Vice President of Engineering at National Oilwell Varco (NOV). He administers all aspects of the development and enhancement of nonmetallic products to support their customers to overcome operational challenges and enhance their facilities integrity and reliability.

Dr. Adel holds a PhD in Mechanical Engineering and MSc. in Engineering Management. He joined NOV in 2018 after 25 years of experience in oil and gas industry at Saudi Aramco with area of expertise involves deployment strategy, industry standards development, projects construction, operation, maintenance, and inspection of metallic and nonmetallic piping systems.
OUR SPEAKERS

Imran Kharusi
Materials and Corrosion Engineer, Petroleum Development Oman

Presentation: Thermoplastic liners in oil and gas industry

Imran Kharusi has over 4 years of experience as Materials and Corrosion Engineer in the oil and gas industry. He is an MSC graduated from Manchester University, experience on the management and the use of various nonmetallic materials including thermoplastics, composites and flexible pipes. Additionally, Imran also has experience on material selection, coatings and failure investigation in upstream facilities in one of the most famous companies on nonmetallic materials, Petroleum Development Oman.

Ramin Moslemian
Principal Specialist and Business Developer for Non-metallics, DNV-GL

Presentation: Applications, design and qualification of bounded and non-bounded thermoplastic composite pipes

Ramin Moslemian is a Principal Specialist and Business Developer for nonmetallics at DNV GL with more than 10 years of experience across the value chain of high-performance composite material solutions for Renewables, Oil and Gas, Maritime and Hydrogen. He is the Subject Matter Expert at DNV GL for polymers and composites and has been one of the key specialists at DNV GL behind the standards for thermoset and thermoplastic composites such as DNVGL-ST-C501 and DNVGL-ST-F119. He has a PhD degree from the Technical University of Denmark (DTU) in Wind Energy.

Chris Worrall
Consultant, TWI

Presentation: SurFlow™: The future of data transfer in composite structures

Chris Worrall is a Consultant at TWI, responsible for providing composites joining, manufacture, processing and testing services to both members and through public funded projects. His 30 years of composites expertise covers; composite-metal joining, thermoplastic composite welding, microstructure characterization, mechanical testing of composite materials (including impact, fracture and toughness), finite element analysis (FEA) of composites, design of composite structures, manufacturing technology for composite materials.

Chris holds a PhD in the field of impact of composite sandwich structures in addition to a BSc in metallurgy and materials science, and was a participating member of the Marinetech NorthWest multi-sponsor program on Cost-effective use of Fibre Reinforced Composites Offshore. Furthermore, Chris had significant involvement in developing an innovative material and manufacturing system for a thermoplastic composite for use in the automotive sector, with input from initial material characterization through to patent application. Recently, Chris was part of the SurFlow™ team at TWI that won a Composites UK Innovation award.

Lennert Bakker
Technical Sales Engineer, SoluForce

Presentation: The challenges in RTP qualification and quality assurance

Lennert Bakker graduated as Bachelor of Applied Science in Process Engineering in Leeuwarden, The Netherlands. In the position of Technical Sales Manager, he advises customers and engineering companies how to engineer a pipeline project using nonmetallic pipe products and find solutions to problems customers encountered in their daily operations.

Besides the role of Technical Sales Manager, Lennert is also Project Manager on behalf of SoluForce for the development of a new range of RTP’s in collaboration with TWI and Aramco in the Non-Metallic Innovation Centre (NIC).

In the 13 years of working in the SoluForce business unit, he started in the R&D department, moved to Installation Supervisor and Trainer and grew into the position of Technical Sales Manager and Project Manager.
Michael Yee
Chief Executive Officer, RTConsults

Presentation: SC09 nonmetallics standards committee

Michael Yee is the founder of RTConsults and NMC Contracting LLC, a nonmetallic engineering and third-party inspection company for the FRP, thermoplastics, refractory, and nonmetallic lining industry. He has over 15 years of experience in the nonmetallic industry and is a NACE Certified Coating Inspector Level III with a background in chemical engineering and construction management. He actively involves in the nonmetallic technical committees at NACE and is the NACE SC09 Chairman for nonmetallics.

Michael is an avid presenter for a number of professional organizations over the years who continues to strive for excellence in providing technical services and support for many leading petrochemical companies in the chlorine, sulfuric acid, and water treatment industry, in addition to the offshore oil industry.

Lan de Gans-Li
Evonik Operations GmbH (Smart Materials)

Presentation: A material solution for new frontiers of HPHT applications in oil & gas

Lan de Gans-Li studied mechanical engineering and holds a Master’s degree in Polymer and Composite Engineering from the Catholic University of Leuven (Belgium). During her PhD, she worked on lithium ion batteries, within the framework of a joint project of the Max Planck Institute for Polymer Research in Mainz (Germany) and the Institute for Polymer Processing of the RWTH University of Aachen. She obtained her PhD in 2004.

After a postdoctoral stay at the technical university Eindhoven, working on ultra-high strength polyolefin fibers, she started a career in automotive industry. She held various management positions and was responsible for polymer compound development, setting-up of laboratories and qualification of materials for new applications.

In 2017, Lan joined Evonik Operations (previously Resource Efficiency GmbH). She is responsible for application technology of Evonik’s high performance polymers in the oil & gas industry. Focused topics include polymer properties under service condition and lifetime, as well as materials qualification.

Andy Ethridge
Director of Technical Services, FlexSteel

Presentation: Expanding the service envelope of flexible steel pipe

Andy Ethridge is Director of Technical Services at FlexSteel and has over 25 years of experience in the design and development of flexible pipe systems. He is a BS in Materials Engineering from the University of Alabama at Birmingham.

Andy is a Past Chair of API SC15, Subcommittee on Fiberglass and Plastic Tubulars and member of the API Committee on Standardization of Oilfield Equipment and Materials (CSOEM). Currently, he is the Chair of the API 15S working group which published API SPEC 15S to establish requirements for spoolable composite pipelines.

He is a NACE member and the past Chair of the NACE Florida Panhandle Chapter. He is also a member of the American Society for Testing and Materials (ASTM) and subcommittees ASTM F17.68 for Energy Piping Systems and F 17.11 Composite Piping Systems.

Alexis Geslin
Technical Polymers - Business Development, Arkema

Presentation: Designing high performance polymers to expand operating windows of flexible pipe systems

Alexis Geslin is the Research and Development Manager for oil & gas activities at Arkema, in charge of the development of new technical polymer solutions to answer key market issues such as corrosion or cost. He holds a Master of Science in Materials Science from Ecole Polytechnique, France.