

## ASME India Oil & Gas Pipeline Conference 2023

| Day - 1                                                                                                                                                            | Track Name / Disc.           | Track          | Time Start   | Time finish  | Paper NO. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------|--------------|--------------|-----------|
| <b>Friday 13th Oct</b>                                                                                                                                             |                              |                |              |              |           |
| <b>Opening Plenary</b>                                                                                                                                             |                              |                |              |              |           |
| ASME Introduction                                                                                                                                                  | Madhukar Sharma              |                | 9:05         | 9:20         |           |
| Address by PSD India Chair                                                                                                                                         | K B Singh                    |                | 9:20         | 9:30         |           |
| Address by PSD EC Chair                                                                                                                                            | Danny Aronson                |                | 9:30         | 9:40         |           |
| Address by IOGPC 2023 Chair                                                                                                                                        | R Ramesh                     |                | 9:40         | 9:55         |           |
| <b>Session 1: Material, Design &amp; Construction of Onshore &amp; Offshore Pipelines</b>                                                                          |                              |                |              |              |           |
|                                                                                                                                                                    | <b>Chair: Suranjan Ghosh</b> | <b>Track 1</b> | <b>10:40</b> | <b>13:00</b> |           |
| Circumferential Yield Strength of Line Pipe Steel Through Ring Expansion Test                                                                                      | Tribhuwan Singh Kathayat     |                | 10:40        | 11:00        | 118779    |
| Location Selection of Sectionalizing Valve (Sv) Stations in Liquid Hydrocarbon Pipelines: A Case Study                                                             | Akhilesh Singh               |                | 11:00        | 11:20        | 118951    |
| Optimized Metallurgy for Api Pipe Body and Weld Ductility Properties for Critical Applications of Natural Gas, High Pressure Gaseous Hydrogen and Co2 Transmission | Douglas Stalheim             |                | 11:20        | 11:40        | 119035    |
| Modern Route Survey Techniques and Practices, Gis Mapping and Planning of Pipeline and Rou Acquisition and Present Guidelines                                      | Ravindra Singh               |                | 11:40        | 12:00        | 119087    |
| Microtunneling for Pipeline Installation: A Case Study                                                                                                             | Dipanjan Mazumdar            |                | 12:00        | 12:20        | 118953    |
| Failure Analysis of Api X80 Steel Pipeline                                                                                                                         | Karan Kumar                  |                | 12:20        | 12:40        | 119040    |
| India's Longest Horizontal Directional Drilling in Mixed Strata: Brahmaputra River Crossing                                                                        | Rajnish Bajaj                |                | 12:40        | 13:00        | 119078    |
| <b>Lunch</b>                                                                                                                                                       |                              |                | <b>13:00</b> | <b>14:00</b> |           |
| <b>Session 2: Pipeline Integrity Management and Emerging Technology Trends</b>                                                                                     |                              |                |              |              |           |
|                                                                                                                                                                    | <b>Chair: Deepak Agarwal</b> | <b>Track 2</b> | <b>14:00</b> | <b>16:00</b> |           |
| IOT'ized TLP                                                                                                                                                       | Arun Sinha                   |                | 14:00        | 14:20        | 118944    |
| Influence of Impervious Cracks on the Frequency Response of a Subsea Pipelines Conveying Crude Oil                                                                 | Abhinav Arunesh              |                | 14:20        | 14:40        | 118950    |
| Flow Transmission Characteristics Analysis of a Subsea Fluid Conveying- Pipeline System With Cracks by Considering Frequency Analysis Technique                    | Aditya Mishra                |                | 14:40        | 15:00        | 119050    |

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| Mixed Reality (Mr) Environment for Visualizing Pipeline Integrity Along With Case Studies                                             | Sayan Roy                                                  |                | 15:00             | 15:20              | 119063           |
| State-of-the-Art Solutions for Instant On-Site Verification of Geotechnical, Cathodic Protection and Coating Indications on Pipelines | Himanshu Joshi                                             |                | 15:20             | 15:40              | 119075           |
| Black Powder Detection and Management Using Advanced Flow Modelling and Field Verification                                            | Lewis Barton                                               |                | 15:40             | 16:00              | 119083           |
|                                                                                                                                       | <b>Tea Break &amp; Networking</b>                          |                | <b>16:00</b>      | <b>16:30</b>       |                  |
| <b>Panel Discussion I:</b>                                                                                                            | <b>Session Moderator : S S Gupta</b>                       |                | <b>16:30</b>      | <b>17:30</b>       |                  |
| <b>Hydrogen: Policy, Potential &amp; Possibilities</b>                                                                                | Prof S Dasappa, Kishore Bhimwal, Manoj Sharma, Neil Gallon |                |                   |                    |                  |
| <b>Session 3: Storage &amp; Transportation of New fuels &amp; Challenges in Pipeline Industry</b>                                     | <b>Chairs: TJ Sampath Kumar &amp; Avinash H Singh</b>      | <b>Track 4</b> | <b>17:30</b>      | <b>18:30</b>       |                  |
| Performance of Longitudinal Saw Pipes - Apix65ms for Transportation of 100% H2 Gas                                                    | Tribhuwan Singh Kathayat                                   |                | 17:30             | 17:50              | 118777           |
| Storage and Transportation of New Fuels and Challenges in the Pipeline Industry                                                       | Kishore Bhimwal                                            |                | 17:50             | 18:10              | 119234           |
| Maximizing the Hydrogen Transportation Chain Value: A Practical Guide to Hydrogen Repurposing                                         | Sameera Naib                                               |                | 18:10             | 18:30              | 118848           |
| <b>End of Technical Sessions Day -1</b>                                                                                               |                                                            |                |                   |                    |                  |
| <b>19:00 Hrs Onwards : Conference Dinner</b>                                                                                          |                                                            |                |                   |                    |                  |
| <b>Day - 2</b>                                                                                                                        |                                                            |                |                   |                    |                  |
| <b>Day - 2</b>                                                                                                                        | <b>Track Name / Disc.</b>                                  | <b>Track</b>   | <b>Time Start</b> | <b>Time finish</b> | <b>Paper NO.</b> |
| <b>Saturday 14 Oct</b>                                                                                                                |                                                            |                |                   |                    |                  |
| <b>Session 4: Pipeline Integrity Management and Emerging Technology Trends</b>                                                        | <b>Chair: Deepak Agarwal</b>                               | <b>Track 2</b> | <b>09:00</b>      | <b>11:00</b>       |                  |
| Successful Accomplishment Of In Line Inspection With Challages Of Varying Hydraulic , Low Flow Constraint (.23 M/Sec) , Hilly Terrain | Partha Bose                                                |                | 9:00              | 9:20               | 119077           |
| Use of Satellite Data and Artificial Intelligence for Washout Assessment for Pipeline Integrity Management                            | Pradeep Kumar Ghosh                                        |                | 9:20              | 9:40               | 119096           |
| Machine Learning Based Model for Analysis of Cathodic Protection System on Pipelines                                                  | Brijesh Kumar Mishra                                       |                | 9:40              | 10:00              | 119081           |

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| Using Machine Learning as Part of External Corrosion Direct Assessment to Overcome Data Limitations                                | Lewis Barton                               |                | 10:00        | 10:20        | 119150 |
| New Approaches in Utilizing Eddy Current Testing to Address Pipeline Geohazards                                                    | Willem Vos                                 |                | 10:20        | 10:40        | 119177 |
| Use Of “K-Nearest Neighbour Search Algorithm” To Geo Spatially Align And Correlate Pipeline Integrity Surveys & ILI Result         | Amritesh Pandey                            |                | 10:40        | 11:00        | 119261 |
|                                                                                                                                    | <b>Tea Break &amp; Networking</b>          |                | <b>11:00</b> | <b>11:30</b> |        |
| <b>Session 5: Operation &amp; Maintenance and Health Safety &amp; Environment</b>                                                  | <b>Chair: P. Anand Victor</b>              | <b>Track 3</b> | <b>11:30</b> | <b>13:10</b> |        |
| Methodology Development for Pipeline Stress Corrosion Cracking Susceptibility Evaluation                                           | Carlos Fernandes                           |                | 11:30        | 11:50        | 118959 |
| Studying the Electrochemical Corrosion Behaviour Inside Coatings in Cathodically Polarised Pipelines -Dac and Cp Shielding         | Rituraj Mishra                             |                | 11:50        | 12:10        | 118987 |
| Integrity Validation of Non-Piggable Pipelines Through Turnkey Ecda, Icda and Scda                                                 | Rajeev Kumar                               |                | 12:10        | 12:30        | 119079 |
| An Innovative Solution for Debris Mapping and Health Assessment of Oil and Gas Pipelines                                           | Pranab Narayan Jha                         |                | 12:30        | 12:50        | 119201 |
| A Case Study:-Repair of Mechanical Deformity (Dent) in Offshore Pipeline Under Water Using Composite Wrap Without Pipe Replacement | Jagannath Patro                            |                | 12:50        | 13:10        | 119002 |
|                                                                                                                                    | <b>Lunch</b>                               |                | <b>13:10</b> | <b>14:10</b> |        |
| <b>Session 6: Operation &amp; Maintenance and Health Safety &amp; Environment</b>                                                  | <b>Chair: P. Anand Victor</b>              | <b>Track 3</b> | <b>14:10</b> | <b>15:30</b> |        |
| Improving Asset Integrity –A Case Study of 30” Paradip-Haldia-Barauni Crude Oil Pipeline of Iocl                                   | Jagannath Patro                            |                | 14:10        | 14:30        | 118980 |
| Evaluation of Pipeline Venting in Long Pipelines                                                                                   | Pradeep Kumar Ghosh                        |                | 14:30        | 14:50        | 119094 |
| Advanced Pipeline Isolation Solutions to Enhance Valve Change-Outs Minimizing Downtime                                             | Rolf Gunnar Lie                            |                | 14:50        | 15:10        | 118753 |
| Energy Recovery Turbine in Cross Country Pipelines                                                                                 | Shiyas Ibrahim                             |                | 15:10        | 15:30        | 118847 |
|                                                                                                                                    | <b>Tea Break &amp; Networking</b>          |                | <b>15:30</b> | <b>16:00</b> |        |
| <b>Panel Discussion II:</b>                                                                                                        | <b>Session Moderator: N Bose Babu</b>      |                | <b>16:00</b> | <b>17:00</b> |        |
| <b>Challenges of Pipelines</b>                                                                                                     | Danny Aronson, R Ramesh, Avinash Srikhande |                |              |              |        |
| <b>End of Technical Sessions Day -2</b>                                                                                            |                                            |                |              |              |        |

| <b>Closing Plenary</b>       |             |  | <b>17:00</b> | <b>17:30</b> |  |
|------------------------------|-------------|--|--------------|--------------|--|
| IOGPC 2023 Technical Summary | Bhaskar Pal |  | 17:00        | 17:15        |  |
| Closing Remarks              | N Bose Babu |  | 17:15        | 17:25        |  |
| Vote of Thanks               | Raj Kishore |  | 17:25        | 17:30        |  |