9-Sep-20						
Please find the papers to be presented at IPC 2020.						
The listing notates which papers will be presented in the virtual conference and which will be available to attendees in paper only format.						
During the virtual conference, approximately 60 of these papers will be presented in a live format with Q&A.						
These papers will be announced in the coming days.						
Note that all virtual papers will have Q&A process attached.						
Papers are subject to change.						
Track	**Presentation Type**	**ASME Paper Nu**	**Paper Title**	**Author First Nam**	**Author Last Nar**	**Company**
Track 1: Pipeline Safety Management Systems	Virtual Presentation	IPC2020-9370	Api Rp 1173 Third Party Assessments: A Key Industry Tool for Evaluating and Supporting Implementation of Pipeline Safety Management Systems	Whitney	Medina	American Petroleum Institute
Track 1: Pipeline Safety Management Systems	Virtual Presentation	IPC2020-9374	How Do I Ensure “Staff Competency” in My Pipeline Safety Management	Karen	Collins	ROSEN USA
Track 1: Pipeline Safety Management Systems	Virtual Presentation	IPC2020-9519	Comparison of Buried Pipeline Crossing Assessments Using Api Rp 1102, Analytical Methods, and Finite Element Approach	Nikhil	Joshi	Stress Engineering Services
Track 1: Pipeline Safety Management Systems	Virtual Presentation	IPC2020-9561	Investigation and Adoption of Apga’s Pipeline Engineer Competency System - the Canadian Experience	Reena	Sahney	PBOK Consulting
Track 1: Pipeline Safety Management Systems	Virtual Presentation	IPC2020-9639	Pipeline Class Reclassification - Standards Criteria & Best Practices	Barbara	Matos	DNV GL
Track 1: Pipeline Safety Management Systems	Paper Only	IPC2020-9764	Corrective Action Plans Oversight and Management : Regulatory	Bushra	Waheed	BC Oil and Gas Commission
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9204	Pump Station Design 2, a Tale of Two Pump Stations	Jim	Horner	AscenTech Engineering
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9309	Relief Tanks: Parameters to Consider When Designing Relief Systems and Connections to Tanks	Emma	Perez	Enbridge Pipelines
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9334	Does Open Cut Pipeline Installation Affect the Geomorphology of Rivers?	Sheldon	Smith	Stantec Consulting Ltd
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9377	Assessing Potential Impacts to Waterways From Small Volume Releases Originating From Facilities or Equipment	Jeremy	Fontenault	RPS ASA
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9391	Hot Bitumen Pipeline Valve Replacement: Pipe Prop Anchoring Design With Mechanical Tensioning	Victoria	Stranzinger	Worley
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9402	Design and Construction Challenges of a Roped Insulated Pipeline	Neetu	Prasad	Worley
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9661	Effects of Slope Grade on Soil-Pipe Interaction—full-Scale Experiments	Mohammad	Katebi	University of Manitoba
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9673	Streamlining the Gis to Cad Workflow for Automated Pipeline Alignment Sheet Generation	Kshama	Roy	Northern Crescent Inc.
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9730	Comparison of Remote Sensing Techniques for Centreline and Weld Mapping in Place of Manual Survey in Hazardous Environments	Joseph	Hlady	Lux Modus Ltd.
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9735	4d Inspection: A Comprehensive Platform to Digitize Pipeline Construction Inspection and Generate Data Driven Continuous Improvement	Sukhi	Gill	TC Energy
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9753	Development of Lifting and Lowering-in Plan for the Control of Construction Stresses	Yong-Yi	Wang	Center for Reliable Energy Systems (Track Chair)
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9769	Formulation of 3d Soil Springs for Pipe Stress Analyses	Ryan	Phillips	Memorial University
Track 2: Project Management, Design, Construction and Environmental Issues	Virtual Presentation	IPC2020-9770	Developing a Representative Soil Response Model	Ryan	Phillips	Memorial University
Track 2: Project Management, Design, Construction and Environmental Issues	Paper Only	IPC2020-9244	Dynamic Thrust Loads on Piping From a Blowdown Stack to a Silencer at a Separation Distance Away	Kamal	Botros	Nova Husky Res Corp
Track 2: Project Management, Design, Construction and Environmental Issues	Paper Only	IPC2020-9653	Installation Errors in Polyethylene Pipe for Natural Gas Service – Recent Case Histories by the National Transportation Safety Board (Ntsb)	Frank	Zakar	National Transportation Safety Board
Track 2: Project Management, Design, Construction and Environmental Issues	Paper Only	IPC2020-9702	Geotechnical Lessons Learned From Nineteen Railway Trenchless Crossings During Construction of a Transmission Pipeline	Jack	Park	BGC Engineering Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9205	H2 in an Exisiting Natural Gas Pipeline	Otto Jan	Huising	N.V. Nederlandse Gasunie
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9231	Dynamic Stress Analysis of an Exposed Pipe Subjected to Moving Ili Tool	HAMID	MOSTAGHIMI	Home
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9251	Applying Advanced Ultrasonic In-Line Inspections Technologies to Effectively Manage Hook Cracks	Cory	Wargacki	NDT Global Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9254	Peer Review of the Plausible Profiles Corrosion Assessment Model	John	Kiefner	Retired
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9268	Near-Neutral Ph Stress Corrosion Cracking Growth Model Trials:	Lyndon	Lamborn	Enbridge Liquids Pipelines

Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9269	Pipe Stress and Deflection During an Integrity Dig	Leping	Li	University of Calgary
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9285	Assessing Soil Corrosivity for Buried Structural Steel	Yannick	Beauregard	NOVA Chemicals
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9288	Slope Movement Inspection Using Axial Strain Data Across Multiple Lines and Repeat Inspections	Mohamed	Elseify	Baker Hughes Canada
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9303	Full Encirclement Engineered Laminated Steel Sleeve System for Repairs and Augmentation of Pipelines: The Engineering Development, Validation Test Results, and Implications for Mitigation of Both Stress and Strain Dependent Integrity Threats	Shawn	Laughlin	Pipe Spring LLC
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9307	A Bayesian Approach for Effective Use of Multiple Measurements of Crack	Smitha	Koduru	C-FER Technologies
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9312	Failure Pressure Prediction of Cracks in Corrosion Defects Using Xfem	Xinfang	Zhang	University of Alberta
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9328	An Improved Methodology for Prioritizing Pipelines With Respect to Fatigue Seam Weld Cracking	Michael	Turnquist	Quest Integrity Group
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9329	Life Expectancy of Decommissioned Pipelines Under External Corrosion - Probabilistic Modeling	Ron Chik-Kwong	Wong	University of Calgary
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9331	A Feature-Specific Probabilistic Assessment of Pipeline Defect Size From Ili Mfl Signal Using Convolutional Neural Network	stephen	westwood	Onstream Pipeline
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9335	Advanced Eddy Current Array Tools for Stress Corrosion Cracking Direct Assessment on Pipelines	michael	sirois	Eddyfi Technologies
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9357	Crack Driving Force Calculation in Arbitrarily Shaped Defects Based on 3d Non-Destructive Evaluation and Finite Element Analysis	Stijn	Hertelé	Universiteit Gent
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9373	Distribution Reliability Assessment Using Machine Learning	Jason	Skow	C-FER Technologies
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9386	At the Forefront of In-Line Crack Inspection Services – a Highly Versatile Crack Inspection Platform for Complex Flaw Morphologies and Absolute	Dr. Thomas	Hennig	NDT Global
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9389	Vintage Pipeline Steel Fracture Toughness Measurements	Sergio	Limon	ELEVARA Partners
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9392	Modelling Stress-Activated Creep at Axial Cracks in Pipelines	Brian	Leis	B N Leis, Consultant Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9396	An Onshore Pipeline Failure Produced by Cathodic-Protection-Induced Hydrogen Cracking – Case Study	Pablo	Cazenave	Blade Energy Partners
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9399	Reliability-Based Assessment of Safe Excavation Pressure for Dented	Chike	Okoloekwe	Enbridge LP
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9400	Manufactured Cracks in Pipe Used to Evaluate ILI Measurement	Jason	Skow	C-FER Technologies
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9464	Pipe Knocked From Supports by Hydraulic Transient Event	Lawrence	Matta	Stress Engineering Services
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9465	Managing the Threat of Selective Seam Weld Corrosion Using a State of the Art Ili System	Simon	Slater	ROSEN
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9470	Achieving Consistent Safety by Using Appropriate Safety Factors in Corrosion Management Program	Mohammad	Al-Amin	Transcanada Corporation
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9472	Improved Semi-Quantitative Reliability-Based Method for Assessment of Pipeline Dents With Stress Risers	Muntaseer	Kainat	University of Alberta
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9476	Puddling Puddle Welds	Dane	Burden	TDW
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9478	Improved Surface Loading Stress Analysis Method Considering Protection Measures	Shenwei	Zhang	Transcanada Pipeline Ltd
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9481	Improving Data Collection With In-Line Inspection in Low-Pressure Gas Distribution Networks	Johannes	Becker	ROSEN Group
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9486	A Midstream Pipeline Operator's Perspective on the Implementation of Api	Joseph	Bratton	DNV GL
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9493	Statistical Analysis of Dig Operations Leading to Productive Repairs	Sheena	Sandhu	OneBridge Solutions, Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9494	Overcoming Challenges of Emat In-Line Inspection Validation for Scc Management in Natural Gas Pipelines - a Practical Approach	Dan	Williams	Dynamic Risk
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9499	In-Service Cracking/leak at Bottom Side Repaired Dent	Gregory	Quickel	Det Norske Veritas (U.S.A.), Inc. (DNV GL)
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9501	Judge Me by My Size, Do You? Or: How Reliable Are Dent Assessments Based on Ili Data?	Rhett	Dotson	ROSEN USA, Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9503	Integrity Validation of Small Diameter-Thin Wall Pipeline Susceptible to Cracking or Crack-Like Indications-a Case Study	Nima	Parsi	Skystone International
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9506	An Engineering Assessment Methodology to Evaluate Arc Burns	Alireza	Kohandehghan	Stantec Consulting Ltd.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9508	Comparison of Non-Destructive Examination Techniques for Crack	Khurram	Shahzad	Enbridge Pipelines Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9511	The Impact of Pressure Fluctuations on the Early Onset of Stage Ii Growth of High Ph Stress Corrosion Crack	Hamid	Niazi	University of Alberta
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9512	Integrity Management of Flange Connections Using Reliability Model	Syed	Haider	Enbridge Pipelines Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9520	A Prudent Approach to Evaluate Dig Effectiveness	Aaron	Woo	TC Energy
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9523	Third Party Damage Monitoring: Internal Fiber Optic Installation on a Transmission Pipeline Using a Pig, a Disengagement System and a Pack-	Carly	Meena	TransGas Limited

Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9544	Cracks in Dents: How Can I Use an Ultrasonic Crack Ili Robot to Detect	Rogelio	Guajardo Rodrigu	NDT Global GmbH & Co. KG
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9548	Integration of Multiple Ili Technologies for Robust Understanding of Unique Anomalies on a Pipeline	Taylor	Shie	Shell Pipeline Company, LP
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9555	Communication and Mitigation Strategies Related to the Leading Indicator of Pressure Cycle Fatigue	Taylor	Shie	Shell Pipeline Company, LP
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9572	Characterizing Corrosion Defects With Apparent High Growth Rates on Transmission Pipelines	Brent	Ayton	Integral Engineering
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9575	Continuing Development of Criteria to Quantify Metal-Loss Severity,	Brian	Leis	B N Leis, Consultant Inc.
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9578	Getting to Know Your Bends to Support Scc Management	Fernando	Merotto	ROSEN
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9580	Application of Noise Filtering Techniques for the Quantification of Uncertainty in Dent Strain Calculations	Noah	Ergezinger	University of Alberta
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9601	Full-Scale Pull Testing Study of the Mfl-a Performance Within Casings to Improve Ili-Based Corrosion Management of Cased Pipes	Dongliang	Lu	TC Energy
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9616	Axial Compressive Capacity of Pressurized Pipeline With Corrosion Defect	Jinxu	JIANG	China University of Petroleum-Beijing
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9621	Microwave Chipless Resonator Strain Sensor for Pipeline Safety	Masoud	Baghelani	University of Alberta
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9624	Now You Scc Me, Now You Don't – Using Machine Learning to Find Stress Corrosion Cracking	Michael	Smith	ROSEN GROUP
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9655	Pipeline Plain Dent Fatigue Assessment: Shedding Light on the Api 579 Level 2 Fatigue Assessment Methodology	Zeyanb	Shirband	Stanetc Consulting Ltd
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9681	Leveraging Iot Telemetry to Improve the Tracking of Inline Inspection Tools for Oil and Gas Pipelines	Vignesh	Shankar	PureHM
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9683	Optimizing the Management of Excavation and Repair Data From Inline Inspection Programs	Miaad	Safari	Enbridge Gas Distrubution
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9690	A Data Driven Validation of a Defect Assessment Model and its Safe	Shahani	Kariyawasam	Transcanada
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9693	Burst Pressure Prediction of Pipes With Scc Colonies - Development of Intelligent Flaw Interaction Rules	Bo	Wang	Center for Reliable Energy Systems
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9696	Burst Pressure Prediction of Pipes With Scc Colonies - Evaluation of Intelligent Flaw Interaction Rules Using Full-Scale Burst Tests	Bo	Wang	Center for Reliable Energy Systems
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9705	Full Scale Test Validation of Fatigue Crack Growth Rate of Flaws in Erw	Aaron	Dinovitzer	BMT Fleet Technology
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9709	Full-Scale Fatigue Testing of Crack-in-Dent and Framework Development for Life Prediction	Udayasankar	Arumugam	Blade Ennergy Partners
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9746	When Metals and Microbes Meet – Preventing Microbial Corrosion in Oil and Gas Transmission Pipelines	Jennifer	Sargent	suez
Track 3: Pipeline and Facilities Integrity	Virtual Presentation	IPC2020-9781	Generation and Monitoring of Synthetic Crack-Like Features in Pipeline Materials Using Cyclic Pressure Loading	Chris	Alexander	ADV Integrity, Inc.
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9281	The Integrity Due Diligence Process for New Capital Assets	Cristina	Figueiredo	Enbridge
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9361	Concerted, Computing-Intense Novel Mfl Approach Ensuring Reliability and Reducing the Need for Dig Verification	Johannes	Palmer	ROSEN
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9393	Inline Inspections in Lieu of Hydrostatic Testing for Low Frequency Erw Pipelines – Developments and Experiences in 12- and 22-Inches Pipelines	Dr. Thomas	Hennig	NDT Global
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9435	The Story of the Dent-Gouge Fracture Model	Andrew	Cosham	Ninth Planet Engineering Limited
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9440	Pressure Reductions to Prevent Time-Delayed Failures in Damaged	Andrew	Cosham	Ninth Planet Engineering Limited
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9448	Plausible Profile (Psqr) Corrosion Assessment Model: Refinement, Validation and Operationalization	Shenwei	Zhang	Transcanada Pipeline Ltd
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9490	Automated Error Identification During Nondestructive Testing of Pipelines for Strength	Jeffrey	Kornuta	Exponent, Inc.
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9495	Incorporating Inline Inspection Internal Measurement Unit Data Analysis Into Integrity Management Programs	Doug	Dewar	Pembina
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9510	Dense and Sparse Stress Corrosion Crack Initiation in an X65 Pipeline Steel With Mill Scale	Shidong	Wang	University of Alberta
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9571	Composite Repair Sleeves	XAVIER	ORTIZ	Stantec Consulting Ltd.
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9587	Power Spectral Density Analysis of Pipeline Pressures for Probabilistic	Michael	Rosenfeld	RSI Pipeline Solutions LLC
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9595	Improved Inspection Through Fmc Technology	Domenico	Bellistri	Applus RTD
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9605	Modeling of Advanced Ultrasonic Testing Methods for Improved Characterization of Pipeline Damage	Scott	Riccardella	Structural Integrity Associates, Inc.
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9631	Development of a Burst Capacity Model for Corroded Pipelines Under Internal Pressure and Axial Compression Using Artificial Neural Network	Wenxing	Zhou	University of Western Ontario
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9652	Numerical Assessment of Dented Pipe Using Inline Inspection Data	Abu Hena	Muntakim	Northern Crescent Inc

Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9703	Dent Screening Criteria Based on Dent Restraint, Pipe Geometry and Operating Pressure	Aaron	Dinovitzer	BMT Fleet Technology
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9724	Dent Assessment and Management, Api Recommended Practice 1183	Aaron	Dinovitzer	BMT Fleet Technology
Track 3: Pipeline and Facilities Integrity	Paper Only	IPC2020-9767	What Is the Leak Rate for a Liquid Slug Flowing Past a Side Branch?	Colin	Hartloper	NOVA Chemicals
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9230	Lessons Learned From Freespans at Pipeline Watercourse Crossings	Gerald	Ferris	BGC Engineering Inc.
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9233	Industrial Validation and Verification Approach for External Fiber Optic Based Leak Detection	Chris	Minto	OptaSense Ltd
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9237	Pipeline Rupture Detection Using Multiple Artificial Intelligence Classifiers During Steady-State and Transient Operations	Christopher	Macdonald	University of Calgary
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9247	Sand Dune Migration Monitoring for Pipeline Hazard Risk Mitigation: The Peru Lng Coastal Section Case	Fabien	Ravet	Omnisens
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9258	A Novel Three-Dimensional Non-Contact Pipeline Magnetism-Based Stress Inspection Technology and Its Application on Lng Pipeline	Guoxi	He	China University of Petroleum(Beijing)
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9260	Enhancing Flooding Monitoring and Response to Improve Geohazard	Peter	Song	Enbridge Pipelines Inc
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9270	An Integrated Approach to System-Wide Landslide Monitoring in the Appalachian Basin Region of the Us	Bailey	Theriault	Golder Associates
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9332	Experimental Investigation of the Difference in Wax Deposition Aging Rate Between Polyethylene and Steel Pipes	Rongbin	Li	China University of Petroleum, Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9333	Pipeline Leak Detection Using a Moderate Gain Nonlinear Observer	Sergio	Cunha	UERJ
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9366	Leak Rate Testing of a Natural Pipeline Defect	Bob	Andrews	ROSEN UK
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9369	Employing Satellite-Based Hyperspectral Imagery for Pipeline Leak Prevention, Detection & Compliance	R. Peter	Weaver	Orbital Sidekick
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9405	The Study on Non-Heating Transportation of Carbon Dioxide Flooding Gathering and Transportation Pipeline	Xianwen	Cheng	China University of Petroleum (Beijing)
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9434	A Hybrid Method Based on Svm Integrated Improved Pso Algorithm for Electrical Energy Consumption Forecasting of Crude Oil Pipeline	Lei	Xu	China University of Petroleum,Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9452	Using Results of Western Canadian Flood Scour Assessments to Provide a Simple Screening Tool for Pipeline Watercourse Crossings	Richard	Guthrie	Stantec
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9461	Pipe Sleeve Repair Analysis Case Study Examining Axial Surface Cracks With Pressure Reduction and Geometry Factors to Improve Remaining	Greg	Thorwald, Ph.D.	Quest Integrity USA, LLC
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9463	On-Water Liquid Leak Detection Technology Evaluation	Chris	Apps	C-FER Technologies
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9479	Maop Reconfirmation for a 20 Inch Gas Pipeline Using the Eca Approach and Enhanced Ili	Simon	Slater	ROSEN
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9518	Establishing a Detection Threshold for Acoustic-Based External Leak Detection Systems	Mathew	Bussiere	C-FER Technologies
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9525	Evaluation and Acceptability of Pneumatic Pressure Test Results	Guohua	Li	DNV GL
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9532	The North Saskatchewan River Valley Landslide – Slope and Pipeline Condition Monitoring	Chris	Holliday	ROSEN Canada Ltd
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9538	A Method of Leakage Parameters Estimation for Liquid Pipelines Based on Conditional Generative Adversarial Network	Jianqin	Zheng	China University of Petroleum-Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9558	Kalman Filter and Model-Free Adaptive Control Theory Applied to the Unsteady Flow State Estimation of Product Pipelines	Lei	He	China University of Petroleum Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9565	Numerical Simulation of Petroleum Spreading in a Complex River Channel	Ji	Wang	China University of Petroleum, Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9584	Large Standoff Magnetometry as a Practical Screening and Monitoring Tool for Pipelines Under Geohazard Condtions	Tianzong	Xu	Pacific Gas & Electric
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9599	Surface Loading Analysis: Vehicle Load Distribution Under Timber Mats and Flexible Slab	Benjamin	Zand	RSI Pipeline Solutions, LLC
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9604	A Novel Approach for Two-Stage Uav Path Planning in Pipeline Network Inspection	Rui	Qiu	China University of Petroleum-Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9636	The Application of Numerical Simulation to Liquid Pipeline Leakage at Lng Terminal in China	Zhichao	Guo	China University of Petroleum-Beijing
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9641	Case Study of Team Approach to Geohazard Identification, Characterization, and Mitigation	Josh	Nasrallah	Golder Associates
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9675	Preserving Critical Stormwater Storage Assets at Pipeline Terminal	Vincent	Huang	Wood
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9722	Research Progress of Sand Transport Mechanism and Critical Conditions in Pipelines	Yuanpeng	You	China University of Petroleum (East China)
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9743	Identification and Mitigation of a Landslide Threatening an Operating Natural Gas Pipeline	Amir	Ahmadipur	Geosyntec Consultants, Inc.

Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9757	Repair of Leaks in Thin-Wall High Pressure Pipelines Using Composite Reinforcing Technologies	Chris	Alexander	ADV Integrity, Inc.
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9785	Use of Spoolable Pipe Technologies as a Means for Rehabilitating Small Diameter High Pressure Pipeline Systems	Chris	Alexander	ADV Integrity, Inc.
Track 4: Operations, Monitoring, and Maintenance	Virtual Presentation	IPC2020-9786	Operational Modal Response Characterization of a Buried Pipe Structure	Haobin	Chen	university of calgary
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9226	Advances in Purging a Pipeline Section Containing a Side-Deadleg: Field Measurements vs. 1d Interfacial Purging Model	Kamal	Botros	Nova Husky Res Corp
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9426	Pipeline Depth of Cover – Can You Demonstrate Compliance?	Daniel	Finley	ROSEN(UK)
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9557	Study on Intelligent Controller Design of Flow Metrological Verification System	Xiong	Yin	China University of Petroleum-Beijing
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9613	Deer Mountain Case Study: Integration of Pipe and Ground Monitoring Data With Historical Information to Develop a Landslide Management Plan	Joel	Babcock	Pembina Pipeline Corporation
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9634	Oil Temperature Prediction of Long-Distance Hot-Oil Pipeline Based on Ga-Bp Optimization	Tao	Yu	China University of Petroleum/Pipechina Oil & Gas Pipeline Control Center
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9717	Structured Response Plan After a Ground Movement Event	Yong-Yi	Wang	Center for Reliable Energy Systems (Track Chair)
Track 4: Operations, Monitoring, and Maintenance	Paper Only	IPC2020-9751	The Use of Remote Real-Time Gnss to Monitor a Pipeline in an Active	Jan	Bracic	Pembina Pipeline Corporation
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9248	Negligible Crack Growth Thresholds	Lyndon	Lamborn	Enbridge Liquids Pipelines
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9255	Estimating Toughness for Lf and Dc Welded Erw Seams	John	Kiefner	Retired
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9290	Repair and Reinforcement of Blunt Defects on Pipeline Bends Using Composite Materials	Paul	Hill	Team Industrial Services Inc
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9323	Effects of Niobium on Microstructure and Hardness of Coarse Grained Haz of High Strength X70 Grade Uoe Linepipe Steel	Taro	Kizu	Japan
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9354	Crack Initiation and Propagation in Static Loaded Fracture Mechanics Tests in Steels Containing Atomic Hydrogen	Philippa	Moore	TWI Ltd
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9403	The Effects of the Flow Response on the Failure Pressure of Line Pipe	Brian	Leis	B N Leis, Consultant Inc.
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9404	Cross-Sectional Grain Size Homogeneity Effect on Structural Steel Fatigue Performance in Air and Hydrogen Environments	Douglas	Stalheim	DGS Metallurgical Solutions, Inc.
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9407	Ring Expansion Testing Innovations – Hydraulic Clamping and Strain Measurement Methods	William	Walsh	EN Engineering
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9410	Application of the Cohesive Zone Model to Crack Tip Opening Angle Design Methodology for Ductile Fracture in Pipeline Steels	Xin	Wang	Xin Wang
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9421	An Empirical Fracture Control Model for Dense-Phase Co2 Carrying	Guillaume	Michal	University of Wollongong
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9444	Improving Reliability of Carbon Steel Girth Welds in Sour Environment	Harpreet	Sidhar	ExxonMobil Upstream Integrated Solutions Company
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9497	Electromagnetic Induction Post Heating to Reduce Nde Delay Times of Welded In-Service Repairs	Liam	Hagel	Stantec
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9545	Separation Characteristics of an X65 Linepipe Steel From Laboratory-Scale to Full-Scale Fracture Tests	Bradley	Davis	University of Wollongong
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9582	Influence of Small Volumetric Flaws on the Measurement of Crack Growth and Tearing Resistance in Sent Tests.	Vitor	Adriano	UGent
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9589	An Approach to Establishing Manufacturing Process and Vintage of Line Pipe Using In-Situ Nondestructive Examination and Historical	Nathan	Switzner	RSI-PS
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9596	Role of Crystallographic Texture on Toughness of Erw Welded and Heat-Treated Api X70 Pipeline Steel	Neil	Anderson	Evraz North America
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9602	Insight on Fracture Toughness and Predicted Failure Pressure for Vintage Erw Seam Defects	Scott	Riccardella	Structural Integrity Associates, Inc.
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9649	The Use of Optimized Erw Techniques to Improve Low Temperature Fracture Toughness of Welded Pipe	Muhammad	Rashid	Evraz NA
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9687	Austenite Grain Size Control During Welding of Line Pipe Steels	Nicolas	Romualdi	The University of British Columbia
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9706	A Quantitative Index to Assess the Influence of Joint Fit-Up on Pipeline Weld Root Discontinuities	Mitchell	Grams	University of Alberta
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9710	Heat Affected Zone Softening Susceptibility Test	Aaron	Dinovitzer	BMT Fleet Technology
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9712	Weld Hydrogen Cracking Susceptibility	Aaron	Dinovitzer	BMT Fleet Technology
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9721	Influence of Steel Chemistry and Field Girth Welding Procedure on Performance of Api X70 Pipelines	Mohsen	Mohammadijoo	EVRAZ North America
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9725	Improved Linepipe Specifications and Welding Practice for Resilent Pipelines	Yong-Yi	Wang	Center for Reliable Energy Systems (Track Chair)

Track 5: Materials and Joining	Virtual Presentation	IPC2020-9766	Pipeline Fracture Control Concepts for Norwegian Offshore Carbon Capture and Storage	Kenneth	Macdonald	University of Stavanger
Track 5: Materials and Joining	Virtual Presentation	IPC2020-9787	Evaluation of Hydrogen Induced Cracking Resistance of X70 Pipeline Steel Under Severe and Mild Sour Service Conditions Using Ultrasonic Analysis	J. Barry	Wiskel	Univ Of Alberta
Track 5: Materials and Joining	Paper Only	IPC2020-9241	Undermatching and Low Strain In-Service Failures in X70 Line Pipe: Contributions From Standards, Specifications,and Coating	Leigh	Fletcher	Retired
Track 5: Materials and Joining	Paper Only	IPC2020-9295	Influence of Natural Gas Pipeline Explosion on Material Performance of X80 Steel Pipe Laid in One Ditch	Jiatong	Ling	China University of Petroleum (beijing)
Track 5: Materials and Joining	Paper Only	IPC2020-9299	Recent Progress in Development of Fracture Arrest Methodology Based on Ctoa: Test Standard, Transferability and Methodology	Su	Xu	CanmetMATERIALS
Track 5: Materials and Joining	Paper Only	IPC2020-9401	Effect of Cooling Process on Microstructure Especially Precipitation Behavior of High-Strength Pipeline Steel	Hesong	Zhang	Shougang Group
Track 5: Materials and Joining	Paper Only	IPC2020-9429	Comparison Between Yield Strength Results Obtained From Methods Using Both Flattened and Non-Flattened Specimens	Pratham	Nayyar	Berg Pipe
Track 5: Materials and Joining	Paper Only	IPC2020-9438	Full-Scale Step-Load-Hold Tests on X65 and X70 Line Pipe Steels	Andrew	Cosham	Ninth Planet Engineering Limited
Track 5: Materials and Joining	Paper Only	IPC2020-9658	Mechanical Properties of Vintage Girth Welds	Dan	Jia	Center For Reliable Energy Systems
Track 5: Materials and Joining	Paper Only	IPC2020-9685	Rational Limits of High-Low Misalignment in Girth Welds	Banglin	Liu	Center for Reliable Energy Systems
Track 5: Materials and Joining	Paper Only	IPC2020-9741	Microstructure Transformation and Mechanical Properties of X80 Large Diameter Thick Wall Induction Heating Bend for Low Temperature Service	YU	Liu	China Petroleum Pipeline Research Institute
Track 5: Materials and Joining	Paper Only	IPC2020-9776	A Comparative Study for Improving Fracture Toughness Test Methods Using Sent Specimens	Xian-Kui	Zhu	Savannah River Research Lab
Track 5: Materials and Joining	Paper Only	IPC2020-9789	Plastic Constraint-Matched Pin-Loaded Sent Specimen for Fracture Analysis of Radially Growing Longitudinal Cracks in Thin-Walled Piping	Jevan	Furmanski	Exxon Mobil
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9310	A Case Study of Predicting Tensile Strain Capacity of In-Service Pipelines	Junfang	Lu	Enbridge Inc.
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9319	Effects of Profile Data Grid on Deformation Capacity of Line Pipes	Kanako	Asano	JFE Engineering Corporation
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9341	An Improved Analytical Strain Analysis Method for Buried Steel Pipelines Subjected to Permanent Ground Displacement	Xiaoben	Liu	China University Of Petroleum(Beijing)
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9376	Papua New Guinea Earthquake Proves the Value of Robust Pipeline Materials Selection and Construction	Mario	Macia	Exxonmobil Development Co.
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9471	Earthquake in Papua New Guinea Results in New Concept for Securing Pipelines in Ridgeline Right-of-Way: the Micropile Contiguous Wall	Christoph	Ladenhauf	ILF Consulting Engineers Austria Gmbh
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9473	High-Pressure Natural Gas Pipeline in Geohazardous Region of Papua New Guinea Sustains M 7.5 Earthquake: Key Factors of Successful	Robert	Albrecht	Exxonmobil Dev Co
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9492	Returning Pipelines to Service Following a M 7.5 Earthquake: Papua New Guinea Experience	Robert	Albrecht	Exxonmobil Dev Co
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9546	Failure Analysis of Buried X65 Steel Pipeline Under the Influence of Permafrost Thawing Settlement Based on Moisture-Heat-Stress Coupled	Jinxu	JIANG	China University of Petroleum-Beijing
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9617	Theoretical Formula for Determining the Maximum Straight Length of a Buried Pipeline That Can Prevent Seismic Buckling	Shoma	Onuki	Tokyo Gas
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9664	Estimation of Tensile Strain Capacity of Vintage Girth Welds	Banglin	Liu	Center for Reliable Energy Systems
Track 6: Strain Based Design	Virtual Presentation	IPC2020-9739	Management of Ground Movement Hazards – an Overview of a Jip	Yong-Yi	Wang	Center for Reliable Energy Systems (Track Chair)
Track 6: Strain Based Design	Paper Only	IPC2020-9235	Recommended Procedures for Evaluation and Synthesis of Pipelines Subject to Multiple Imu Tool Surveys	James	Hart	SSD, Inc.
Track 6: Strain Based Design	Paper Only	IPC2020-9259	Rapid Strain Demand Estimation of Pipelines Deformed by Lateral Gourd Movements	Ali	Fathi	Enbridge
Track 6: Strain Based Design	Paper Only	IPC2020-9384	Development of Soil Restraints for Buried Pipelines in Muskeg Soils Subject to Lateral Ground Displacements	Dharma	Wijewickreme	University of British Columbia
Track 6: Strain Based Design	Paper Only	IPC2020-9551	Preventing Girth Weld Failure in Large Diameter Pipelines: Measurement of Loads and Application of Assessment Methods	Andy	Young	rosen
Track 6: Strain Based Design	Paper Only	IPC2020-9663	Effects of Biaxial Loading on the Tensile Strain Capacity of Girth Welds With Weld Strength Undermatching and Haz Softening	Banglin	Liu	Center for Reliable Energy Systems
Track 6: Strain Based Design	Paper Only	IPC2020-9678	A Review of Pipe-Soil Interaction Models for Strain Demand Estimation	Dunji	Yu	Center for Reliable Energy Systems
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9240	Probabilistic Digital Twin for Risk Assessment Transmission Pipelines	Francois	Ayello	DNV GL
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9261	Application of Risk and Reliability in Designing Facility Site Containment	MD Anthony	Payoe	Enbridge

Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9274	Safety Risk Acceptance Criteria for Pipelines	Maher	Nessim	C-FER Technologies
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9278	Hazardous Liquid Pipeline Spill Volumes	Tyler	Paxman	C-FER Technologies
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9314	Surviving Population Reliability Projection Methods	Lyndon	Lamborn	Enbridge Liquids Pipelines
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9367	Reliability Performance Benchmarks for Low Vapor Pressure Liquid	Thomas	Dessein	Integral Engineering
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9459	Quantifying Risk to Optimize Facility Integrity Management	Alex	Nemeth	Enbridge Inc.
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9483	Recommendations for Jet Fire Model Selection When Performing Consequence Assessments of Onshore Natural Gas Pipelines and	Shawn	Smith	Integral Engineering
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9484	Reliability-Based Crack Threat Assessment and Management	Jason	Yan	TC Energy
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9500	Stress Corrosion Cracking “Like-in-Kind” Reliability Approach for Pipelines Without Crack Tool In-Line Inspection	Dan	Williams	Dynamic Risk
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9504	Comparison of a Standard Reliability-Based Approach and a Bayesian Network Approach for Integrity Management of a Northern Canadian	Smitha	Koduru	C-FER Technologies
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9517	Demonstration of Limit States Design Method for Assessment of Corrosion and Crack Features	Riski	Adianto	C-FER Technologies
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9556	Intelligent Prevention Method for Third-Party Damage of Long-Distance Pipeline Based on Mobile Devices Location Information	Jiatong	Ling	China University of Petroleum (beijing)
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9586	Subset Simulation for Structural Reliability Analysis of Pipeline Corrosion	Daryl	Bandstra	Integral Engineering
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9609	Reliability-Based Assessment Method for Pipelines Buried at Fault Crossings	Kai	Wu	China University of Petroleum (Beijing)
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9726	Into Multi-Parameter Decision Making Scenarios: A New Look at Optimizing Utility Functions	Mona	Abdolrazaghi	Enbridge Pipelines Inc.
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9738	Asset Complexity Based Benchmarks in Support of Reliability	Martin	Di Blasi	Enbridge Pipelines Inc
Track 7: Risk and Reliability	Virtual Presentation	IPC2020-9788	Model for Estimating the Probability of Failure at River Crossings	Millan	Sen	Enbridge Pipelines Inc.
Track 7: Risk and Reliability	Paper Only	IPC2020-9238	Understanding Risks: Natural Gas Distribution Piping in the United States	Sara	Lyons	National Transportation Safety Board
Track 7: Risk and Reliability	Paper Only	IPC2020-9284	Time Dependent Reliability Analysis for Oil and Gas Pipelines: A Bayesian Spectral Analysis Based Deterioration Model	Ngandu	Balekelayi	University of British Columbia
Track 7: Risk and Reliability	Paper Only	IPC2020-9480	A Novel Approach to Risk Management of Below Ground Natural Gas Migration From Leaks on Low-Pressure Pipelines	Kimberly	Maddin	TC Energy
Track 7: Risk and Reliability	Paper Only	IPC2020-9507	Practical Considerations in the Assessment of Safety Risks Associated With Large Gas Transmission Pipeline Systems	Dongliang	Lu	TC Energy
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9346	Numerical Analysis of the Mechanical Behaviors of Nonmetal Unbonded Flexible Pipe Under Combined Load	Baodong	Wang	China University of Petroleum, Beijing
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9350	Hydrate Formation in Water-in-Oil Emulsions in the Presence of Resins	Dongxu	Zhang	China University of Petroleum-Beijing
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9351	The Coarse Particle Influence on the Strength of Wax Deposition	Xun	Zhang	China University of Petroleum (Beijing)
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9436	Investigation Four-Phase Multi-Component Flow Techniques in Horizontal and Sub-Sea Pipelines	Mohamed	Odan	Memorial University
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9542	Research on Virtual Metering System of Offshore Oilfield Based on Multi-Level Electrical Submersible Pump	Zonghan	Bai	CHINA UNIVERSITY OF PETROLEUM
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9547	Establishment and Application of the Pipeline Monitoring System in Permafrost Regions in China	Liu	Jianping	PetroChina Pipeline Company
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9567	Study on the Distribution of Submarine Pipeline Corrosion Defects Based on Internal Inspection Data and Data Mining Method	Guoxi	He	China University of Petroleum(Beijing)
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9597	A Coupled Thermo-Hydro-Mechanical Model for Capturing Frost Heave Under Chilled Gas Pipelines	SeonHong	Na	McMaster University
Track 8: Northern, Offshore and Production Pipelines	Virtual Presentation	IPC2020-9695	The Influence of Burial Depth and Soil Thermal Conductivity on Heat Transfer in Buried Co2 Pipelines for Ccs: A Parametric Study	Babafemi	Olugunwa	University of Strathclyde
Track 8: Northern, Offshore and Production Pipelines	Paper Only	IPC2020-9562	Hydrostatic Collapse Tests of Full-Scale Pipeline Specimens With Thickness Metal Loss	Jose	Freire	PUC-RIO