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2022 Pipeline Safety Trust Conference Speaker Bios

Richard Aisaican is an elected Council member of Cowessess First Nation. Richard Aisaican is deeply committed to the success of the Nation in all endeavors. Richard holds a Master of Science Degree from San Diego State University (SDSU) as well as a graduate certificate in administration from the SDSU research foundation. Richards undergraduate degree is in First Nations Studies, with a major in business, from Vancouver Island University. Richard also holds a Diploma in Business Administration from Yukon College specializing in First Nations management. As an elected leader for Cowessess First Nations Richards portfolio holdings are Legal, Land Claims & Stewards of the Land. Currently, Richard is the indigenous co-chair of the Line 3 Replacement Projects (L3RP) Indigenous Advisory & Monitoring Committee (IAMC). The L3RP spans the provinces of Alberta, Saskatchewan & Manitoba. Working towards inclusion and reconciliation, duty to consult and accommodate requires participation in projects like the L3RP. Richard is involved in a great many projects and enjoys the challenges and success of intergovernmental advice and action on indigenous issues.

Paul Blackburn provides legal services on pipeline and renewable energy matters. He has worked on crude oil pipeline issues since 2008, and has experience in renewable energy policy and development. Paul represented nonprofit clients in the South Dakota Public Utilities Commission hearing on the Keystone XL Pipeline, and in the Minnesota Public Utilities Commission hearings on Line 67, Line 3, and Sandpiper. He has provided policy analysis and strategic advice on a variety of other pipeline matters and authored reports on pipeline safety and oil spill response. Paul started his legal career in Washington, DC, at the law firm of Van Ness Feldman, where he assisted clients in renewable energy and coal-fired power plant development, a variety of regulatory, legislative, and litigation matters, and Native American commercial law. After leaving private practice, he began a career in the nonprofit sector, including employment by the Sierra Club, the National Environmental Trust, and Oceana in organizing and media. He also has experience in community wind and solar energy development. Paul holds a B.A. in Biology from Macalester College and a J.D. from Boston College Law School.

Bruce Brabec is the step-dad of Liam Wood, one of three boys killed in Olympic Pipe Line Company's pipeline rupture and explosion in Bellingham, Washington in June 1999. He and Liam's mother, Marlene Robinson, were founding members of the Pipeline Safety Trust and have testified to Congressional committees in support of stronger regulation regarding pipeline safety. Bruce is Treasurer of the Board of the Pipeline Safety Trust. He is retired and was formerly the Executive Director of Northwest Youth Services in Bellingham. Bruce is involved with a class *The Art, Science, and Ethics of Flyfishing*, which is taught annually at Western Washington University: .and was set up in memory and tribute to his stepson Liam.

Sean Britt is the Senior Director of Environment, Health and Safety (EHS) for the Trans Mountain Expansion Project at Trans Mountain. He has spent the majority of his over 20+ years of industry experience split among EHS construction support, environmental management and archaeology consultancy. Sean has provided testimony to the Environmental Protection Tribunal of Canada, the Washington State Senate Sub-Committee and the Canadian Energy Regulator (CER). He has served as a panel member of the tri-partite Policy Table among Trans Mountain, the CER and the Indigenous Advisory Monitoring Committee (IAMC) and has led countless environmental studies and regulatory proceedings. Sean recently piloted the creation of the Environmental Protection Rules Program – the first initiative of its kind in the industry – designed after Energy Safety Canada's Life Saving Rules Program and for which Trans Mountain won the 2021 award for innovation from the Canadian Energy Pipeline Association. Sean has a degree in Historical Archaeology from the University of Massachusetts, Boston as well as a degree in History and Anthropology from Wheaton College (Massachusetts). He is a dual US/Canadian citizen and currently resides in Calgary, Alberta, Canada with his wife and son.

Tristan Brown serves as the Acting Administrator of the Pipeline and Hazardous Materials Safety Administration (PHMSA). Most recently, Brown served as Legislative Counsel to U.S. Senator Gary Peters, handling issues before the U.S. Senate Committee on Commerce, Science and Transportation. Brown previously practiced law at Stinson LLP as well as Van Ness Feldman LLP in their Washington, D.C. offices, focusing on regulatory, transactional, and litigation matters relating to the transportation and public utilities sectors. He also previously served as Deputy Associate Administrator for Congressional Affairs at the U.S. Environmental Protection Agency. Prior to that, he served as an aide to U.S. Senator Amy Klobuchar where he advised the Senator on matters related to energy, the environment, transportation, and Native American issues. Brown earned a Juris Doctor degree from the University of California Berkeley School of Law, a Master's of Philosophy degree from the University of Cambridge where he was a Gates Cambridge Scholar, and a Bachelor's of Science degree from the Lee Honors College at Western Michigan University where he was a Morris K. Udall Scholar and a member of USA Today's All-Academic Team. Brown was born in rural Michigan and raised just outside Detroit. As a child he lived in New Hampshire where his father was an automotive manager and previously served as a deputy sheriff. His mother was a social worker and service employees union representative.

Bill Caram has served as the Pipeline Safety Trust's Executive Director since 2020 and serves with a passion for fierce independence, public safety advocacy, and environmental protections. The Pipeline Safety Trust is the only national non-profit watchdog organization on the pipeline industry and was formed in the wake of the 1999 Olympic Pipeline Disaster in Bellingham, WA. Bill serves on the U.S. Department of Transportation's Hazardous Liquids Pipeline Advisory Committee (LPAC), serves on Washington's Citizen Committee on Pipeline Safety (CCOPS), and is regularly called on as a source for independent pipeline information by state and federal lawmakers and national media outlets. Bill graduated with a BS in Business Administration from the University of Delaware and has earned the Chartered Financial Analyst designation from the CFA Institute.

Rebecca Craven has served as the Program Director of the Pipeline Safety Trust since January 2011. She regularly works with local governments, state and federal officials to help improve pipeline safety, and responds to requests for pipeline safety information from concerned citizens and reporters. She previously served as a policy analyst for the Whatcom County Council (WA), working on a variety of resource and land use issues. She also practiced law for many years in Alaska, Oregon, and Idaho, representing Alaska Native villages and Indian tribes in matters ranging from treaty-protected water rights, federal land management, and cultural resource protection to taxation and child welfare. She graduated from Carleton College with a degree in geology and obtained a J.D. from the University of Oregon School of Law with a certification of completion in the Natural Resources and Environmental Law Program.

Linda Daugherty serves as the Deputy Associate Administrator (DAA) for Pipeline Safety – Field Operations for the U.S. Department of Transportation (DOT). She has worked within DOT Pipeline and Hazardous Materials Safety Administration (PHMSA) for 31 years. Ms. Daugherty leads PHMSA's pipeline Field Operations, including inspection and enforcement staff located across the country in five Region Offices and three District Offices. She also leads the Accident Investigation Division and the Washington based Operations Standards Division. She previously served as DAA for Policy and Programs in Washington, leading the efforts of the Enforcement, Engineering, Regulatory, Training and Qualifications, State Program and Program Development Divisions. Ms. Daugherty also has served as Region Director for the Southern and Central Regions. Ms. Daugherty, a chemical engineer by training joined PHMSA in 1991 as an inspector/investigator.

Andy Drake is vice president of Asset Integrity for the Gas Transmission and Midstream group at Enbridge. He is responsible for the company's risk assessment and asset integrity programs to ensure safe operations across all GTM assets in North America. Prior to assuming his current role in 2017, Drake served as vice president of Operations and EHS for Spectra Energy's U.S. Gas Transmission Operations. Drake joined predecessor company Texas Eastern in 1982 as an engineer. Drake earned a Bachelor of Science degree in Industrial and Systems Engineering from Ohio State University. He is a registered professional engineer in the state of Texas. Drake has held leadership positions on numerous technical committees and regulatory initiatives within the natural gas industry, including chairing the American Society of Mechanical Engineers' Gas Piping Standards Committee and the development of ASME's Gas Piping Integrity Management Program Standard B31.8S. He has also been named an ASME Fellow by the American Society of Mechanical Engineers. He represents the U.S. natural gas infrastructure industry on the U.S. Department of

Transportation's Technical Advisory Committee on Pipeline Safety. He also chaired the development of the Interstate Natural Gas Association of America's Integrity Management Initiative.

Joan Dreskin has been with the Interstate Natural Gas Association of America as general counsel since March 1998. She now serves as vice president of regulatory affairs and general counsel. Prior to joining INGAA, Ms. Dreskin worked at Federal Energy Regulatory Commission in FERC's Office of the General Counsel and also – from 1993 through August 1997 – as legal assistant to then-Commissioner Don Santa. Ms. Dreskin received a bachelor's degree from Brandeis University, Waltham, Massachusetts. She received a juris doctorate from Emory University School of Law.

James Eager joined the Pipeline Safety Trust in December 2021 as the organization's Data Manager. He brings a commitment to telling stories through data using elegant, accessible, and responsible techniques. He has previously served as a Regional Collaboration Coordinator for the Berkshire Natural Resources Council in Massachusetts, where he developed engaging and interactive maps and visualizations for a regional trail network project. James' previous experience includes working for city governments on mobility, parks, and sustainability projects.

Graham Emmerson is the Technical Manager of Integrity Programs with Enbridge Inc. and is Enbridge's lead for Integrity Management Governance. For the past 20 years Graham has worked with multi-disciplinary teams across industry to strengthen process safety management and improve operational reliability through industry standards, safety culture assessment, incident investigation, risk assessment and a variety of assurance activities.

Prior to joining Enbridge Graham spent eight years with Canada's National Energy Board, preceded by eight years in engineering consulting and oilfield services. Graham works actively with several Industry Association and standards committees to advance safety and loss management programs and is currently Chair of the CSA Z260 Technical Committee and a member of the API RP 1186 standard. Graham is a geotechnical engineer by training with a B.Sc.(E) in Geological Engineering from Queens University and a Masters in Civil Engineering from the University of Calgary. Graham currently resides in Calgary, Alberta and has worked extensively across North America and Canada's Arctic Territories.

Lois Epstein, a Pipeline Safety Trust Board member and P.E., is an Alaska-licensed engineer with her own company, LNE Engineering and Policy, where she serves as a consultant to environmental and tribal organizations. Previously, Lois worked full-time for national and regional environmental organizations in Alaska and Washington, DC. Her work focuses on ensuring that onshore and offshore – especially Arctic – oil and gas operations are as safe and environmentally-sound as possible and protecting sensitive areas from new resource development. Ms. Epstein has presented invited testimony before the U.S. Congress on over a dozen occasions, largely focusing on release prevention in the oil and gas sector. Additionally, she has served on federal advisory committees covering offshore operations, pipeline safety, and refineries. Ms. Epstein has been quoted in The New York Times, The Washington Post, BBC, NPR, and The NewsHour with Jim Lehrer. Ms. Epstein has master's degrees from Stanford University in Civil Engineering with a specialization in environmental engineering and science and from Johns Hopkins University in museum studies, and undergraduate degrees from both Amherst College (English) and MIT (mechanical engineering).

Mark Gebbia is the Vice President for Environmental and Permitting at Williams where he and his team are responsible for environmental permitting, compliance, and stewardship programs across Williams' asset base. He is originally from Pensacola, Florida and graduated from the University of Florida with a degree in Chemical Engineering. Following college, Mark went to work with URS Corporation (now AECOM) in Tallahassee, Florida where he provided engineering and environmental consulting services. Mark was hired by Williams and relocated to Tulsa in May 2012 where he has held several leadership positions within the environmental organization and been active in industry advocacy and research organizations supporting environmental and methane emissions issues. Mark is a Florida-licensed Professional Engineer, chair of the board for Pipeline Research Council International, and serves on the boards for Red Cross of Northeast Oklahoma and The Nature Conservancy, Oklahoma. Mr. Gebbia was the Co-Chair for Permitting, Siting, and Community Engagement chapter of the 2019 National Petroleum Council's Study "*Dynamic Delivery: America's Evolving Oil and Natural Gas Transportation Infrastructure*". The study analyzed the permitting challenges and community engagement best practices for meeting the needs of U.S. oil and natural gas transportation infrastructure and provided recommendations to the Department of Energy.

Austin Hastings serves as the Senior Director of Gas Strategy Execution and System Planning for Pacific Gas & Electric Company. Mr. Hastings has spent his entire 25 year career in PG&E's natural gas business serving in a variety of engineering, operations, construction and business development roles. His current role is responsible for the strategic development of the natural gas system in PG&E and California, and how it will play a pivotal role in the storage and transportation of Hydrogen as part of a decarbonized economy. Mr. Hastings graduated with a BS in mechanical engineering from California State University Fresno in 1997. In 2000, he earned his professional engineering license from the state of California, also in mechanical engineering.

Jennifer L. Homendy was sworn in as the 15th Chair of the National Transportation Safety Board (NTSB) on August 13, 2021, after being nominated President Biden and unanimously confirmed by the Senate. Chair Homendy began her tenure as the 44th Board Member of the NTSB when she took the oath of office on August 20, 2018. A tireless advocate for safety, Chair Homendy has spent over two decades supporting the critical safety mission of the NTSB, the independent federal agency that investigates crashes in all modes of transportation, determines the probable causes, and issues recommendations to improve the safety of transportation systems in the United States and around the world. From 2004 to 2018, she served as the Democratic Staff Director of the Subcommittee on Railroads, Pipelines, and Hazardous Materials, which is under the jurisdiction of the U.S. House of Representatives Committee on Transportation and Infrastructure. She previously held positions with the International Brotherhood of Teamsters, the Transportation Trades Department of the AFL-CIO, and the American Iron and Steel Institute.

Kirk Jalbert is an Assistant Professor in the School for the Future of Innovation in Society at ASU. He is also a JPB Environmental Health Fellow with the Harvard T.H. Chan School of Public Health. At ASU, he directs the Civic Science for Environmental Futures Lab, a research space that uses participatory research projects to work with communities in creating more equitable environment futures. Jalbert's research examines how public engagements with environmental science and governance are shaped by the co-production of knowledge, tools, and resources. In particular, he focuses on understanding the unique technical practices and skills that emerge in these spaces. Prior to joining ASU, Jalbert worked in the nonprofit sector, facilitating data transparency and science communication projects in partnership with concerned citizen groups working making sense of their relationships with the energy industry, particularly in the context of debates about the impacts of shale gas extraction and pipeline projects.

Morgan Johnson works with the Sustainable FERC Project, a coalition-based initiative housed within NRDC that promotes the transition to a clean, low-carbon, and sustainable energy future. Johnson represents the project in its gas advocacy work before FERC, DOE, and other forums. Previously, she was the staff attorney at Waterkeepers Chesapeake, an environmental NGO comprising of 17 waterkeeper programs in the Chesapeake and Coastal Bays of Maryland, Virginia, Pennsylvania, and Washington, D.C. Johnson earned her B.A. from Ohio State University and her J.D. and environmental law certificate from the University of New Mexico. She is based in NRDC's Washington, D.C., office.

David Kane founded WindHorse Strategic Initiatives in Boulder, Colo. in 2009 and consults solely on Indigenous people's land rights, & natural resource, environmental, & tribal policy & law. He currently serves on API's Pipeline Public Engagement Group representing Indigenous perspectives as part of the public caucus group. For 18 years, David was a regulatory & policy consultant to oil, gas & mining which followed 10 years working as a research wildlife biologist for government agencies & the Denver Zoo in Mongolia. He's also active in Rising Voices at the University of Colorado National Center for Atmospheric Research (NCAR), a program facilitating intercultural, relational-based approaches for understanding & adapting to extreme weather & climate events. In 2021, David helped launch The Fire Heart Institute, an Indigenous-led environmental policy & STEM educational training center working in cooperation with another Indigenous-led organizations. He holds a B.S. in Wildlife Conservation & Management from the University of Wyoming & conducted his doctoral studies in Conservation Biology & International Policy at the University of Denver where his research focused on the behavioral & population ecology of endangered ungulates inhabiting Mongolia's Gobi region.

Jessica Karlsruher serves as the Executive Director of Texas Real Estate Advocacy & Defense (TREAD) Coalition with more than 20 years of experience with trade associations and nonprofit organizations. She began her career at the Texas Capitol while in college and after graduating from the University of Texas at Austin, Jessica worked for trade associations in both Texas and Washington, D.C. focusing on grassroots and state advocacy efforts. She has also raised

funds and awareness for patient advocacy organizations. Jessica joined TREAD Coalition in the Fall of 2019 to advocate for landowners and rural communities to protect private property rights throughout the state of Texas. Her roots run deep as a 6th generation Texan, a landowner and a steward of Texas land and resources. Jessica is a proud member of the Texas Wildlife Association, Texas Land & Mineral Owners Association, Texas & Southern Cattle Raisers, and serves on the American Petroleum Institute's Task Group developing a pipeline public engagement recommended practice.

Blaine Keener is the Operations Systems Division Director in the Washington DC Headquarters for PHMSA's Office of Pipeline Safety (OPS). Blaine's primary mission is to ensure information technology systems meet the needs of PHMSA's internal and external stakeholders. Blaine began his public service career with the Maryland Public Service Commission in Baltimore, MD as a pipeline safety engineer. After holding a wide variety of positions with the Commission, Blaine began federal public service with OPS in 2004. Within OPS, Blaine has also served as the Community Assistance & Technical Services (CATS) Program Coordinator – now known as Community Liaisons – and the National Field Coordinator.

Max Kieba currently serves as the Director of Program Development at the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration Office of Pipeline Safety. In his role, Max works with team members who provide policy and/or technical advice to address emerging pipeline safety technical issues and risks through programs that align with PHMSA and pipeline safety priorities. Max has over 24 years of experience in the energy industry both in the private sector and as a federal regulator. In that time, Max has built a technical and management career centered around core values of family/team, honesty/integrity, respect, and innovation. Max holds a Bachelor of Science in Electrical Engineering from the University of Pennsylvania.

Ben Kochman is the Director of Pipeline Safety Policy at the Interstate Natural Gas Association of America (INGAA). Prior to his position at INGAA, Mr. Kochman served as the Director of Governmental, International, and Public Affairs for the Pipeline and Hazardous Materials Safety Administration (PHMSA). There, he was the lead executive representing the agency before Congress, the media, and stakeholder groups. He additionally served as a Senior Congressional Affairs Officer on behalf of former Secretary of Transportation, Elaine L. Chao at the U.S. Department of Transportation (DOT). There, he acted as a liaison with Congress for a variety of issues, including assisting with outreach for PHMSA. Prior to his time at DOT, Mr. Kochman spent about 8 years working as a staff member for several Members of Congress. Most recently, he served as Legislative Director for U.S. Representative Kay Granger, a senior Member of the House Appropriations Committee. Additionally, Mr. Kochman worked as a Senior Legislative Assistant to former U.S. Representative Scott Rigell and served as legislative staff in the offices of U.S. Senator Pat Toomey and former U.S. Senator John Ensign. He is a graduate of American University in Washington, D.C. with a Bachelor of Arts in Communications, Legal Institutions, Economics, and Government.

Richard Kuprewicz, as President of Accufacts Inc., provides independent consulting services based on over 50 years of experience to assist decisionmakers in making informed decisions concerning pipelines. Richard provides pipeline safety expertise in gas and liquid pipeline investigation, including, risk management, siting, construction, design, operation, maintenance, training, control room management including Supervisory Control and Data Acquisition ("SCADA") approaches, leak detection, management review, emergency response, pipeline safety regulatory development and compliance. Much of Richard's background is grounded on pipeline incident investigations following too many pipeline tragedies. Richard's efforts are usually focused on pipeline operations in unusually sensitive areas, such as areas of high population density or significant environmental sensitivity.

Oscar Leon has 18 years of service in Consolidated Edison of New York (CECONY), 8 years' experience as a field operating gas mechanic. He is currently responsible for the Gas Emergency Response Center: a 24hr x 365 operation responsible for prioritization, emergency coordination, dispatch, regulatory notification, reporting, and response to reported gas leak emergencies within CECONY's gas service territory and gas hazard awareness training for local fire departments and emergency services. He was part of a cross functional team that first deployed residential methane detectors in 2018 within our service territory.

Chuck Lesniak is a pipeline safety advocate and owner of CL3 Consulting. He worked for the City of Austin, Texas for nearly 30 years in a variety of environmental roles; including spill response and investigation, environmental regulation

for construction projects, contaminated site remediation, and environmental policy. Chuck has been involved in pipeline safety issues for over 20 years, first on behalf of the City of Austin and since his retirement on behalf of pipeline safety organizations, landowners, local governments, and communities. He is a public member of the federal Hazardous Liquids Technical Advisory Committee, led a subcommittee of the Pipelines and Informed Planning Alliance, and is a member of the API RP 1185 Task Group developing the new public engagement standard. Chuck lives in Wimberley, Texas.

Rick Lonn has been with Southern Company Gas for over 37 years. He first joined the company in 1985 as a distribution engineer. During his career, Rick has managed various operations for the Company including Engineering Design, Dispatch, Corrosion, ROW and Land Use, Damage Prevention, Environmental Services, Codes & Standards, Safety, Transmission Integrity, Distribution Integrity, Quality Assurance and Regulatory Compliance. He is currently Director of Compliance Assurance and Pipeline Risk Management for the Company. Professionally, Rick holds a Bachelor of Civil Engineering (BCE) from Georgia Tech and is also a registered Professional Engineer (PE) in the state of Georgia. He is a past Chairman of the Board for Georgia 811 where he has been a board member for the last 34 years. He also is chairman of the Georgia Utility Coordinating Council's (GUCC) Legislative Committee, a member of the board for the Georgia Pipeline Emergency Response Initiative (GPERI) since its inception, a past chairman of Pipeliners of Atlanta and an AGA Diamond Award of Merit holder.

Shawn Lyon was appointed Senior Vice President, Logistics & Storage – MPLX, effective September 2022. Prior to this appointment, he was President, Marathon Pipe Line LLC (MPL), beginning in 2018. Mr. Lyon, by appointment of the U.S. Secretary of Transportation, Elaine Chao, has served on the liquid pipeline advisory committee since 2019. He serves as vice chair on the board of the Liquid Energy Pipeline Association (LEPA). In 2019, Mr. Lyon received the Pipeline Leadership Award for driving transformation and improvement in the industry. He co-chaired with Carl Weimer the public engagement recommended practice development group which includes industry, public and government entities for the entire pipeline segment. Mr. Lyon also served as chair of the pipeline industry's implementation of the Pipeline Safety Management System (API RP 1173) from 2015-2018. Mr. Lyon has actively worked to foster a culture of safety within MPL and across the industry. In 2019, MPL was awarded the API Distinguished Pipeline Safety Award, selected by pipeline industry peers, the award acknowledged MPL for fostering a culture of safety, sharing and implementing best practices, and actively participating in and contributing to industry standards and technical work.

Alan Mayberry is the Associate Administrator for Pipeline Safety, within the Pipeline and Hazardous Materials Safety Administration in Washington, DC and serves as the senior career official leading pipeline safety for the U.S. Department of Transportation. Before his appointment in 2016, Alan served as the Deputy Associate Administrator for Policy and Programs, leading PHMSA's development of comprehensive oversight programs including regulatory development, engineering and research, state grants, federal enforcement and the Training and Qualifications Division. Prior to August 2013, Alan was the Deputy Associate Administrator for Field operations overseeing US pipeline safety oversight through PHMSA's five regional offices. Alan is a Civil Engineering graduate of the University of Tennessee, Knoxville, and is also a registered professional engineer.

Amanda McKay is the Program Manager for the Pipeline Safety Trust. Since joining the Trust in April of 2022 she has immersed herself in the regulatory issues around carbon dioxide pipelines and the safety risks they pose to local communities. Amanda has a background in environmental policy, communications, and community engagement. She received her B.A. in Environmental Policy from Western Washington University and has a Master's degree in Environmental, Natural Resources, and Energy Law (MSL) from Lewis and Clark Law School in Portland, OR.

Dave Mulligan acts as a Community Liaison for the Pipeline and Hazardous Materials Safety Administration (PHMSA) and is based in the Western Region. Dave joined PHMSA (RSPA) for a term between 1994-1998 acting as a pipeline safety inspector and returned in 2011. His focus area is expanding pipeline safety outreach efforts within federal, state, and local government bodies, along with local communities. He remains engaged on topics that include excavation enforcement; policy and program development; inspection processes; community outreach; technical services; and technology and data information systems. Dave has been involved in several high-profile pipeline incidents serving as a liaison between public entities and federal/state agencies. Dave began his career in pipeline safety in 1994 and after a

long hiatus, returned to PHMSA in 2011. He received his Electrical Engineering degree from Colorado School of Mines and is a registered Professional Engineer. Dave resides in Littleton, CO, a suburb of Denver. In his spare time, Dave enjoys spending time with his family, including his 3 granddaughters, and participating in everything outdoors that Colorado has to offer.

Captain David Murk, US Coast Guard (ret.), is the Director of Pipelines at the American Petroleum Institute (API) and responsible for the oversight of infrastructure policy and technical issues to support and advocate for the safe and reliable transportation of petroleum liquid, natural gas and other emerging fuels by pipeline. Prior to joining API in 2016, Murk served twenty-six years in the public sector including twenty-four years with US Coast Guard and two years at US Department of Transportation (USDOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). In his last three years in the Coast Guard, Murk served as the Senior Maritime Advisor to the Secretary of Transportation. At USDOT, Murk served as the Director of Field Operations in the Office of Pipeline Safety, where he helped lead over 140 pipeline inspectors in the oversight of federal safety regulations for natural gas and petroleum liquid pipelines and liquefied natural gas facilities. Murk began his career at the United States Coast Guard Academy in New London, Connecticut earning a BS in Applied Science and has a Master's Degree in Business Administration. David, his wife Pam and boys reside in Maryland with their five dogs.

Erin Murphy is a Senior Attorney with Environmental Defense Fund's Energy Markets & Utility Regulation team. She advocates before state and federal regulatory bodies for policies to reduce methane emissions from existing gas pipeline infrastructure, and to ensure that gas distribution utilities are planning for a decarbonized energy future with reduced reliance on natural gas. Erin previously worked on Clean Air Act and FOIA litigation and clerked on the Maine Supreme Judicial Court. She earned a JD from Georgetown Law and a BA in Environmental Science from the University of Florida.

Roland Muwanga, Vice-President, Energy Transition – Technical & Operations Strategy, evaluates technology developments across the energy industry to strategically assess their applicability to TC Energy's growth and emissions reductions pathways. Mr. Muwanga has held a variety of roles within engineering design, research and development, and operations over his 20-year career. Since joining TC Energy in 2013, Mr. Muwanga has held a number of leadership roles of increasing responsibility in engineering, pipeline infrastructure development, and operations. Mr. Muwanga holds a Bachelor of Science in Mechanical Engineering from the University of Calgary, and a PhD in Mechanical Engineering from Concordia University. He is a licensed Professional Engineer in Alberta, Canada.

Gerard Neugebauer became the mayor of Green, Ohio (pop. 27,500) in 2016. Previously he served as an at-Large council member from 2012-2015. A graduate of The University of Akron with a bachelor's degree in Civil Engineering and a master's degree in Business Administration, he is a licensed professional engineer who worked as an engineering project manager in the consulting engineering and construction industries. In 2015, Enbridge proposed the 36" diameter Nexus natural gas pipeline within the City of Green. The city commissioned an economic study that concluded the pipeline would have \$125 million adverse impacts to the city and developed an alternate route for the pipeline through a sparsely populated area. In 2017, FERC approved Enbridge's preferred route through the City of Green. Within 26 days, the State of Ohio EPA granted the wetlands permit required to begin construction. The city sued the state EPA and the US 6th Circuit Court of Appeals issued a stay of construction within the City of Green. In January 2018, Mayor Neugebauer negotiated a \$7.5 million settlement with Enbridge that ended the litigation and shifted focus onto pipeline safety, construction oversight and enforcement of local codes and ordinances.

James Oswald, Ph.D., P.Eng. - Dr. Oswald has worked on pipeline projects for nearly 40 years. These projects involve forensic investigations, route reconnaissance and geohazard evaluation, and related engineering studies. Dr. Oswald has extensive experience in providing geotechnical input to soil-pipeline interaction analyses and geological hazard assessments for pipelines. His senior consulting expertise include the following: Mackenzie Gas Project (Canada), Norman Wells oil pipeline (Canada), Alaska Gas Project (United States, Canada), Baydaratskaya Bay crossing (Russia), Exxon Neftigaz Sakhalin to De Kastrri pipeline (Russia) and Petronas SSGP (Malaysia). He has conducted or peer-reviewed investigations for geohazard-induced rupture events in Canada, United States, Ecuador, Colombia and Malaysia. Dr. Oswald has authored or co-authored numerous technical papers related to pipelines. His textbook "Soil mechanics for pipeline stress analysis" provides key information to mechanical and pipeline engineers dealing with geotechnical data. He teaches a short course on the same subject. He is the author of two chapters in the second edition of Pipeline Geo-

Environmental Design and Geohazard Management (ASME, 2019). Jim is a member of the ISO Technical Committee (TC) 67/SC 2 - Working Group (WG) 22 - Geological hazards risk management of oil and gas pipelines for onshore pipelines, and an Adjunct Professor.

Marc Pauze is the Acting Vice-President for Field Operations for the Canada Energy Regulator. His responsibilities include construction oversight, condition compliance activities for safety, environmental protection, damage prevention, pipeline integrity, emergency management and security. Since 2017, Marc and his group have been working very closely in the creation and implementation of the Indigenous Advisory and Monitoring Committees for the Enbridge Line 3 Project and the Trans Mountain Expansion Project. He joined the Canada Energy Regulator (then known as the National Energy Board) in 2002 as a junior environmental specialist working on applications. Throughout his career Marc has worked on numerous applications, countless field inspections and worked across the country. He started his Federal public service career in 1997 with the Canadian Coast Guard as a high speed life boat specialist. He has a Master of Science in Wildlife Biology and a Bachelor of Science in Agriculture from McGill University, Montreal.

John Peconom is a Program Manager in FERC's Office of Public Participation based in Washington DC. John, along with other OPP staff, are responsible for empowering, promoting, and supporting public voices in proceedings before the Commission. John specializes in assisting the public with infrastructure-related matters. Prior to joining OPP, John spent 18 years as an Environmental Project Manager in FERC's Office of Energy Projects where he conducted environmental reviews of interstate natural gas transmission projects. Originally from California, John graduated from the University of California at Davis in 2000 with a B.S. in Environmental Biology and Management. In his free time, John enjoys running, biking, kayaking, and shuttling his teenage daughter to and from her many activities.

Greg R. Perry became a farmer when he passed up a promotion to manage an engineering and construction office in Honolulu, Hawai'i, to move back to Pennsylvania and live on a small dairy farm in Bradford County in 2008. He soon became involved with the Pennsylvania Farm Bureau, learning the policy development process and grassroots lobbying at the local, state and federal level as a Director for the Bradford/Sullivan Farm Bureau. He has continued to work as a Cathodic Protection Specialist, following a career path in corrosion control for pipelines for the water, gas & oil, and federal contracting businesses. He was also present to observe the vigorous growth of the northern Marcellus Shale gas expansion and gathering pipeline development. In 2017 he was suggested by the Pennsylvania Farm Bureau to serve on the PA Underground Storage Tank Indemnification Fund Board and was nominated by Governor Wolf to that position that he still holds. Mr. Perry is happy to use his pipeline experience to advocate for the policies of the American Farm Bureau Federation and the Pennsylvania Farm Bureau. He is currently a member of the American Petroleum Institute's task group developing a recommended practice for pipeline public engagement.

Carolyn Raffensperger is executive director of the Science and Environmental Health Network. She has an M.A. in Archaeology and a J.D. While working as an archaeologist in the desert Southwest of the U.S., she was enchanted by the beauty of the landscape and horrified at the environmental threats posed by dams, mining and toxic waste disposal. She left archaeology to work for the Sierra Club in Illinois. The desire to protect the rivers, prairie and desert led her to law school. Her graduate school training in archaeology and her law school education provide the tools Carolyn needs to serve her clients—the future generations of all species. Carolyn co-convened the 1998 Wingspread Conference on the Precautionary Principle and the 2012, 2014 and 2016 Women's Congresses for Future Generations. Carolyn is co-editor of *Precautionary Tools for Reshaping Environmental Policy* published by M.I.T. Press (2006) and *Protecting Public Health and the Environment: Implementing the Precautionary Principle*, published by Island Press (1999).

Chris Ruhl is the Director of PHMSA's Accident Investigation Division. His team is responsible for conducting investigations of federally regulated pipeline failures across the country. His team works closely with States that administer investigations under their jurisdiction. Chris's team strives to identify emerging trends and lessons learned that can improve pipeline safety.

Chief Marcel Shackelly was re-elected for his second term as Chief of Nooaitch Indian Band in November 2016. He also currently serves as Co-chair of the Indigenous Advisory and Monitoring Committee which consists of 13 Indigenous and six senior federal representatives who provide advice to regulators and who monitor the Trans Mountain Expansion (TMX) Project and existing pipeline. Chief Shackelly previously served as Procurement Coordinator for the Lower Nicola

Indian Band; as Forest Fuel Management Liaison at the First Nations' Emergency Services Society; as Executive Director at Nicola Tribal Association; and as Special Projects Officer at Shulus Forest Enterprises. Chief Shakelly studied at Simon Fraser University (Bachelor's in Economic Development); Nicola Valley Institute of Technology (Business Administration and Management); and the British Columbia Institute of Technology (Computer Systems).

John Stody represents LEPA and its member companies on an industry-wide basis before Congress, its committees and individual members. He leads pipeline safety improvement programs and U.S. Pipeline and Hazardous Materials Safety Administration regulatory issues at LEPA. He also leads LEPA's public relations efforts and serves as LEPA's primary media relations contact. John came to LEPA with 20 years of Washington legislative and policy experience. He spent 13 years as a U.S. Senate aide, serving as Legislative Director for U.S. Senator Kay Bailey Hutchison, Counsel for U.S. Senator Kit Bond and Majority Staff Director of the Senate Transportation and Infrastructure Subcommittee. Previously, he served 7 years at the U.S. Environmental Protection Agency (EPA), including time as an attorney-advisor in EPA's Office of Enforcement and Compliance Assurance. He began his federal government service as a Presidential Management Fellow at EPA and the White House Office of Management and Budget. John has a B.S. in Science and Technology Studies from Rensselaer Polytechnic Institute, an M.G.A. from the University of Pennsylvania, and a J.D. from George Mason University School of Law.

Dr. Tianyi Sun is a Climate Scientist at Environmental Defense Fund. Tianyi holds a Ph.D. in Climate Dynamics from the University of Texas at Austin and did her undergraduate studies in Atmospheric Sciences at Nanjing University, China. Her work at EDF focuses on the impacts of short-lived climate pollutants. She explores how methane emissions and their mitigation affect Arctic sea ice, ocean warming, and sea level rise, as well as the role of short-lived greenhouse gases in net zero emissions pathways. She also leads EDF's hydrogen science work on leakage measurements and their climate implications. Tianyi supports the climate science communication efforts at EDF, including co-authoring and contributing to more than a dozen journal articles, memos, reports, factsheets and blog posts, and translating the latest scientific research to comprehensible and actionable insights.

Erin Sutherland joined the Pipeline Safety Trust as Policy Counsel in September 2022. Erin's areas of expertise include regulatory and legal affairs and government transparency. Previously, Erin worked as staff attorney for the farm animal program at the Animal Welfare Institute and clerked at the public interest law firm Meyer Glitzenstein & Eubanks. Erin graduated from North Carolina State University with a degree in Natural Resources Policy and Administration, and obtained a J.D. from Lewis & Clark Law School with a certificate in Environmental, Natural Resources, and Energy Law.

Dante Swinton has a BA in Environmental Studies from Winthrop University and an MS in Nonprofit Management and Social Entrepreneurship from the University of Baltimore. They have been advocating for a transition to zero waste and away from trash incineration in Baltimore since 2015. Determined to make the city a better place for everyone, Dante ran for mayor of Baltimore from 2019 to 2020. Dante has been developing a zero waste cooperative, Glass Recovery and Sustainable Systems (GRASS) Baltimore since 2020, and launched in October. It will be a makers and exhibit space with a mission to recover bottle glass, support entrepreneurial artists, and strengthen communities.

Joe von Fischer is a Professor in the Department of Biology who studies how the function of ecosystems is structured by the interactions among humans, plants, the soil and soil microbes, with particular focus on how these factors influence the emissions of greenhouse gases like methane. Joe's research seeks to characterize the physical and biological diversity of systems that give rise to micro-sites with exceptional influence on overall system function. Joe's lab maintains two primary research areas. One is the study of how biological diversity among the bacteria that consume methane within soils leads to spatial and temporal patterns in soil methane fluxes. The other is in collaboration with the Environmental Defense Fund to use Google Streetview Cars to measure the leakage rate of natural gas from urban distribution systems around the country.

Beth Wallace is the Great Lakes freshwater campaign manager for the National Wildlife Federation. For over a decade, Beth has worked with the National Wildlife Federation on resource protection issues related to the transportation of oil and gas across the Great Lakes region. While working with NWF, Beth provided watchdog response to the 2010 Enbridge Kalamazoo River oil spill where she has testified before Congress and the National Academy of Sciences around pipeline safety and spill response failures. In addition, she co-authored the report "Sunken Hazard: Aging oil pipelines beneath

the Straits of Mackinac”, which brought to light the risks Line 5 poses to the Great Lakes. Since releasing Sunken Hazard, Beth has led NWF’s efforts to advance pipeline safety reform, protect water rights from fossil fuel attacks, she advocates for just energy transition policies as well as clean energy investments.

Paul D. Wehnert is currently Heath Consultants’ Executive Vice President/Chief Marketing Officer. He is responsible for products and field services marketing. Paul is a well-respected leader in the industry and often is asked to present papers and provide instruction for private, municipal and investor-owned utilities, the Department of Transportation, regulatory agencies, state and regional gas associations, and gas/liquid measurement societies around the World. Paul has been instrumental in the development of technical advances in both the fields of leak detection, odorization and pipe/cable locating technologies. Paul also represents Heath as a member of numerous state, regional, national and world gas associations and committees. Paul was initially hired as a Field Consultant after graduation from the State University of New York – Syracuse with a degree in Environmental Science and Forestry to perform gas and water leak detection and line locating services. He has held many titles including, Field Consultant, Area Operations Coordinator, Applications Engineer, Sales Consultant, Territory Manager, National Sales Manager and Vice President/ Senior Vice President – Sales & Marketing. Paul’s dedication and drive to expand Heath Consultants’ goal of becoming the world leader in utility protection and damage prevention.

Carl Weimer is the Special Projects Advisor of the Pipeline Safety Trust. He serves as the co-chair of API’s Pipeline Public Engagement recommended practice task group. From 2003 - 2020 he was the Executive Director of the Pipeline Safety Trust, and served as a member of the U.S. Department of Transportation’s Technical Hazardous Liquid Pipeline Safety Standards Committee, the Canadian Energy Pipeline Association’s External Advisory Panel, the governor appointed Washington Citizen Committee on Pipeline Safety, and three technical pipeline standard committees. Carl has testified to the U.S. House and Senate multiple times, as a witness by the National Transportation Safety Board, and was honored in 2015 as a Champion of Change by the White House for his pipeline safety efforts. He has organized fifteen national pipeline safety conferences, and regularly serves as an independent source of pipeline safety information for news media, local government, and citizens around the country. Carl was elected three times and served for 12 years on the Whatcom County Council, where he served as chairman for four of those years. He has a degree in Natural Resources and Environmental Education from the University of Michigan, as well a degree in Industrial Electronics Technology from Peninsula College.

Kim West is a pipeline investigator-in-charge with the Office of Railroad, Pipeline and Hazardous Material Investigations at the National Transportation Safety Board (NTSB). She has worked for the NTSB since 2021 and has more than 18 years of experience in pipelines. Kim came to the NTSB from the Pipeline and Hazardous Material Safety Administration at the Department of Transportation. Prior to her work at PHMSA, Kim worked for Olympic Pipe Line Company responsible for design, construction, maintenance projects for pipeline and tank assets in California and the Northwest area. She began her public service career as a Program Manager with the Washington State Pipeline Safety program leading regulatory and investigation of natural gas and hazardous liquid pipelines. Kim has a Bachelor of Science degree in Chemical Engineering from the University of Washington.

Stephanie Wilson is Vice President, Logistics and Engineering, Phillips 66 Pipeline LLC and has been a member of the Midstream Operations Leadership Team since 2018. In her current role, she has responsibilities for Asset Integrity, the Pipeline Control Center, Cybersecurity, and various other technical functions. With 20 years of experience, she has an extensive background in pipeline and terminals. After 5 years in Refining in her early career, she moved into Midstream and has since served in a variety of roles including leadership roles in operations; health, safety, and environmental; engineering; and projects. Wilson earned a Bachelor of Science degree in Mechanical Engineering from the University of Oklahoma in 2002. She leads the API/LEPA Performance Excellence Team and is also on the PAC66 Board and the Aerospace and Mechanical Engineering Board of Advisors for the University of Oklahoma.

Jon Wolfram is the Deputy Director for the Minnesota Office of Pipeline Safety and current Chair of the National Association of Pipeline Safety Representatives. Jon graduated from North Dakota State University with a Bachelor of Science degree in Construction Engineering. He holds a Professional Engineering license in the State of Minnesota. Jon began working in the pipeline industry when he joined MNOPS in 2009. Previously, he worked in the structural engineering field. Throughout his career, Jon has been focused on safety and is passionate about it!

Dan Zegart is an investigative journalist and the senior investigator at the Climate Investigations Center. A ten-year daily newspaper veteran, he has written, reported or produced for *Ms.*, *Huffpost*, *The Nation*, *The Guardian*, *Reader's Digest*, *Salon*, the *Associated Press*, *The New York Times*, *PBS Frontline*, *ABC TV Directions* - - including the Emmy-nominated "Aging in Venice" - - as well as *ABC TV 20/20*, and *CBS Evening News*. He is the author of two books, *Civil Warriors: The Legal Siege on the Tobacco Industry*, and *Your Father's Voice: Letters for Emmy about Life with Jeremy - and Without Him after 9/11*. He appeared in and was a story consultant on the theatrical documentary, *Addiction Incorporated*, now on Amazon. Zegart's investigations into deaths from defective propane gas control valves in the mid-1980s, and a CO2 pipeline rupture in Mississippi in 2020, resulted in record fines from the Consumer Product Safety Commission and the Pipelines and Hazardous Materials Safety Administration, respectively.