

ADAC's Arctic Challenges, Innovations, & Commerce Expo (Arctic C-ICE)



Presenter Biographies



Mead Treadwell

Former Lt. Gov. Of Alaska, Former Chair of U.S. Arctic Research Commission, President and CEO of Qilak LNG

Mead Treadwell was the 11th Lieutenant Governor of Alaska (2010-2014) and Chair of the US Arctic Research Commission (2006-2010) under Presidents George W Bush and Barack Obama. He currently serves as the President and CEO of Qilak LNG.

Treadwell has been involved in numerous successful business ventures and is a prominent member of Alaska's business community. Treadwell is on the Board of Venture Ad Astra, which creates "remote sensing and location-based technologies for National Security, Position, Timing, Navigational Infrastructure, and Commercial Markets". Treadwell played a role in the foundation of Digimarc, a digital watermarking technology provider ranked first on Forbes list of fastest growing tech companies in 2004. He has also served as non-executive Chairman of Immersive Media Corporation (IMC), a company notable for developing the camera used for Google's Street View and Map Quest's 360 View services.

In advancing Arctic cooperation and sustainable development, he chairs the satellite firm Iridium's Polar Advisory Board, co-chairs the Washington,

DC based Woodrow Wilson Center's Polar Initiative, chairs the Iceland-based Arctic Circle's Mission Council on Shipping and Ports, and is a member of the International Advisory Board of the UK-based Polar Research and Policy Initiative.



Bruce Heinrich

Program Director Maritime Warfare Systems, ASRC Federal Mission Solutions

Bruce Heinrich is a Program Director Maritime Warfare Systems at ASRC Federal Mission Solutions. Bruce has nearly 20 years of experience supporting and leading defense programs in support of Department of Defense efforts such as DDG 1000, AMDR, LCS, Deepwater, and Aegis BMD Baseline 9 and 10. Prior to joining ASRC Federal, Bruce started his professional career in the software engineering discipline working for both small and large commercial software companies and was also an adjunct county college physics and chemistry teacher. Bruce earned his Bachelor of Science degree from Rutgers University and is currently pursuing a Master of Business Administration.



Orest Ukrainsky

Director of Innovation, ASRC Federal Mission Solutions

Orest Ukrainsky is the Director of Innovation at ASRC Mission Software Solutions. He has over 30 years' experience nucleating novel solutions for a diverse customer set. His experience ranges from fiber optic communications, automated command and control ,high speed amphibious craft, autonomous systems to ocean renewable energy. Recently he developed automated communications management systems for the maritime environment

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Mike Berenato

Solutions Architect, ASRC Federal Mission Solutions

Mike Berenato is a Solutions Architect with ASRC Federal Mission Solutions (AFMS) in Moorestown, NJ. He participates in engineering, development, and support activities for the U.S. Navy's Aegis Weapons System. Mike has 38 years of diverse software experience on Aegis as well as other ASRC Federal Mission Solutions projects. He holds a BBA in Computer Information Sciences from Temple University and a Master's Degree in Computer Science from Villanova University.



Dr. Steve Kacenjjar

Data Scientist

Steve Kacenjjar (PhD.), Data Scientist specializing in Synthetic Scene Generation and Physics-Based Animation for use in AI/ML Studies. Expertise in AI training and simulation, Optical processing, Synthetic scene development and avatar animation. Also have published over 20 papers in Remote Sensing, Medical Image Processing and RF Signal Recognition. Over his 30+ years in Research, he has been chief scientist at Lockheed Martin (King of Prussia) and a Tech fellow for the last 10 years he was at Lockheed. His major accomplishment include a corporate wide distinction for his work on hyperspectral scene modeling and an International First-Place award in Melanoma Early-Warning Skin Cancer Detection Research. His most recent contribution (2020) has been the inventor of a SDR-based signal detection algorithm (provisional patent).



Steve Specht

Chief Engineer, Army Technologies for ASRC's MSS Division

Steve Specht is the Chief Engineer, Army Technologies for ASRC's MSS Division. He has been with ASRC Federal NetCentric for 10 years helping to lead the design and development of software solutions for our customers, primarily focused on the US Army market. Prior to NetCentric's acquisition by ASRC, he served as the VP of Product Development where he was responsible for leading the development and delivery of 5 tactical software applications to the US Army to support Intelligence and Battle Command functions. Before joining NetCentric, Steve worked at the US Army Communications and Electronics Command for 7 years serving as the Chief Software Engineer, US Army Mission Command and the Software Lead for the Army's Future Force Warrior program. Steve has a BS in Electrical Engineering from Columbia University and a ME in Electrical Engineering from Princeton University.



Matthew Zimmerman

Executive Vice President of Engineering, Farsounder

As founder, Matthew has driven the technical development and vision of FarSounder since its inception. Over the years, he has focused on building and grooming an expert design and implementation team capable of translating customer needs into best-in-class commercial products. His responsibilities include leading the development, testing, and productization of FarSounder's sonar technologies from initial design concept, to sea testing prototypes and product level technology including both hardware and software components.



Andrew Kinsey

Senior Marine Risk Consultant, Allianz Risk Consulting LLC

Captain Andrew Kinsey spent 23 years in the U.S. Merchant Marine and U.S. Naval Reserve, sailing in all licensed ranks, including Master. His sailing experience was primarily with Maersk Lines, sailing as Master of three different Container ships.

He also served as Master aboard two Military Sealift Command (MSC), Large Medium Speed RORO (LMSR) ships, the USNS "Sisler" and USNS "Red Cloud." He served in Operations Desert Shield & Desert Storm, Restore Hope, Enduring Freedom and Iraqi Freedom, and received numerous decorations and awards.

After coming ashore in 2006, Andrew worked as an independent Marine Surveyor in the Tri-state area and joined the ACE/US Commercial Marine - Marine Advisory Service, in 2009. At ACE he was responsible for providing a wide range of Risk Control services to support its commercial book of marine business, including Cargo, Project Cargo, Hull & Machinery, Terminal Operators, and related Inland Marine LOB's.

Andrew is a graduate of the United States Merchant Marine Academy at Kings Point, NY (1984) and holds a Bachelor's degree in Marine Transportation/ Nautical Science. He also holds an Unlimited U.S. Coast Guard Masters License, for vessels of any gross tonnage upon oceans.



R. Isaak Hurst

Founder & Principal Attorney, International Maritime Group

As the only son of an Alaskan long-liner, Isaak spent the majority of his youth baiting hooks in the glacial fed waters of Prince William Sound, the Gulf of Alaska, Cook Inlet, Kodiak, and the Bering Sea. Isaak's current list of clients includes shipowners, charterers, shipyards, seafood companies, importers, exporters, freight forwarders, carriers, offshore oil and gas companies, mining companies, construction companies, and other entities and persons engaged in the maritime and transportation industry. Isaak is admitted to practice in all State and Federal Courts in both Alaska and Washington, the U.S. Court of International Trade, the 9th Circuit Court of Appeals, and the United States Supreme Court. Isaak has three Bachelor of Science degrees (Economics, International Studies, and Political Science), and one Juris Doctorate degree from the University of Utah. Isaak also spent an additional year studying Admiralty Law at the National University of Singapore—one of the world's leading maritime law schools.

Prior to starting IMG, Isaak worked for maritime law firms in Singapore and Seattle, and worked for one of largest marine insurance brokerages in the world. Isaak also spent five years as a professional skier on the Atomic International Ski Team, and worked for the U.S. Department of State in Almaty, Kazakhstan. He also holds an Unlimited U.S. Coast Guard Masters License, for vessels of any gross tonnage upon oceans.



Odilon Lemieux

Founder and President, Borrum Energy Solutions Group

Odilon Lemieux is the founder and president of Borrum Energy Solutions. He has received his undergraduate degree from the University of Montreal in Electrical Engineering and has received a Master's degree in Applied Science and Engineering Management at the University of Waterloo. Odilon also has Masters in Business Administrations from Wilfrid Laurier University and is a registered Chartered Professional Accountant. Before founding Borrum Energy Solutions Odilon has spent much of his professional career as an engineer and consultant.



Ken Flowers

Vice President, Government Business Development, Iridium Communications

Ken Flowers is the Vice President, Government Business Development at Iridium Communications Inc., the only satellite communications company that offers truly global voice and data coverage. He is responsible for developing strategic plans and marketing to U.S. and foreign governments, with an emphasis on increasing applications and the use of Iridium products and services by the U.S. Department of Defense. Mr. Flowers holds a Master of Science degree in National Security and Strategic Studies from the U.S. Army War College and a Master of Arts degree in Human Resource Management from Troy State University.



Charlie Lever

Director, Government Programs, Iridium Communications

Charlie Lever is a Director, Government Programs at Iridium Communications Inc., the only satellite communications company that offers truly global voice and data coverage. He is responsible for developing strategic plans for and marketing to U.S. and foreign governments, with emphasis on increasing applications and use of Iridium in the U.S. Department of Defense. Charlie holds a Master's degree in Business Administration (Aviation) from Embry Riddle Aeronautical University and a Bachelor's degree in Science Civil Engineering from The Citadel. His military education includes Air War College and Air Command and Staff College by correspondence.



Kaare Sikuaq Erickson

Outreach and Engagement Manager, Ukpeaġvik Iñupiat Corporation (UIC) Science

Kaare Ray Sikuaq Erickson is the Outreach and Engagement Manager for UIC Science in Utqiagvik, Alaska. Kaare's job requires him to facilitate and foster productive relations between Arctic researchers and Arctic residents in Alaska. Kaare was raised in several villages along the Bering Sea coast including Savoonga, Saint Michaels, and Unalakleet. Kaare's father, Jeff, is a Scandinavian fisherman and school teacher from Unalakleet and his

mother, Donna Sauraq is an Iñupiaq airlines manager and cultural leader raised in Utqiagvik. Village life taught Kaare to provide for his community through subsistence and leadership and to be aware of problems that face Arctic communities. Kaare's mission is to find creative, realistic, and effective ways to alleviate or solve these issues. Kaare spent over decade immersed in anthropological projects (cultural, historical, and archaeological) and studying Alaska Native history. This unique life history and his expertise in cross-cultural communication allows him to fulfill his role as North Slope Science Liaison for the Ukpeagvik Inupiat Corporation.



Nagruk Harcharek

Ukpeagvik Iñupiat Corporation (UIC), Director of Operations

Nagruk is a lifelong Barrow resident, hunter, whaler and artist. He earned his Bachelor of Science in Aeronautical Science from Embry Riddle Aeronautical University at Prescott, Arizona. His work experience includes serving as General Manager for UIC Science, LLC where he supervises and administratively manages the Barrow Arctic Research Center and the surrounding Charles Etok Edwardsen Jr. Environmental Observatory. He is a licensed pilot and has worked with Iñisaġvik College during its Iñupiat Land Use and Resources Camp as a guide and vessel operator.

Twyla Aanauraq Thurmond

Native Village of Shishmaref, Community Coordinator

Twyla's job in her community focuses on coordinate efforts in relation to expansion, and erosion protection on behalf of the Native Village of Shishmaref, Alaska. She maintains communications and collaborates with state and federal agencies as well as other local Governments. She assists her community by way of advocacy and communications so that they can make informed decisions in relation to Shishmaref Site Expansion and Erosion Protection. Twyla's focus is on forwarding information, networking, and grant executions to help facilitate the movement of projects that pertain to land protection for our community.



Nolan Klouda

The University of Alaska Center for Economic Development

As Executive Director, Nolan provides overall leadership for the University of Alaska Center for Economic Development, as well as support for other programs of the UAA Business Enterprise Institute. Prior to taking his current role in 2014, Nolan served as Associate Director. He has been a strategic advisor to tribal governments, municipal governments, non-profits, Alaska Native Corporations and private business groups, assisting them in realizing their economic goals. Nolan's areas of professional interest include feasibility analysis, rural economic development, entrepreneurship and innovation policy, and engagement between the public and private sectors. He is a Certified Economic Developer (CEcD) through the International Economic Development Council, is a board

member for the University Economic Development Association, and serves on the Municipality of Anchorage Budget Advisory Commission. Nolan was named to Alaska's "Top 40 Under 40" in 2015. He holds a Master of Public Administration from the University of Kansas and a Bachelor of Arts, History and Political Science from Gustavus Adolphus College.

Margo Fliss

The University of Alaska Center for Economic Development



Margo leads strategic engagement for UA CED and is part of growing Alaska's entrepreneurial ecosystem, with a focus on helping early-stage entrepreneurs learn new tools to pursue their ideas. She currently runs CED's Upstart Intern program and co-leads the Upstart Alpha student accelerator at UAA. Her talents lie in creating a collaborative and welcoming space for exploration and problem-solving. With a background in education, Margo believes facilitation and guided learning are a blend of art and science, and that the most important outcome of her process is an actionable, achievable framework. She holds a Master of Public Policy from Mills College and a Bachelor of Arts in Political Science and Government from the University of Alaska Fairbanks. Margo is a certified Strategic Doing Workshop Leader and earned her "Foundations in Design Thinking" certification from IDEO in 2018. She currently serves on the boards of the University Economic Development Association and thread.

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Taylor Drew Holshouser

Director of Business Development, Alaska Ocean Cluster



Taylor Drew Holshouser is the Director of Business Development at the Alaska Ocean Cluster, an Anchorage-based organization that promotes and grows Alaska's sustainable ocean economy. He is also a Research Fellow at the Wilson Center's Polar Institute, where he covers the socioeconomic implications of a warming Arctic and supports the development of the Institute's Arctic Infrastructure Inventory. A lifelong Alaska, he enjoys fly fishing and hiking in his spare time.

Leslie Canavera

Chief Executive Officer, PolArctic



Leslie Canavera is the Chief Executive Officer of PolArctic, an oceanographic and data science company that develops new innovative Artificial Intelligence and Machine Learning (AI/ML) tools to solve Arctic business challenges such as seasonal sea ice forecasting, calculating nearshore depths and change from remote sensing data, precision fishing, and locating habitat conditions for aquaculture. PolArctic's AI tools evolve in near real-time to compensate for climate change to support the industries operating in this dynamic environment, and were funded by the US National Science Foundation through a Small Business Innovative

Research grant. PolArctic is a member of the Arctic Economic Council (AEC), and a member of the Maritime, Investments and Infrastructure, and the Blue Economy Working Groups.



Peter Macy
Chief Business Officer, Blue Ocean Gear

Peter Macy is the Chief Business Officer of Blue Ocean Gear, a provider of intelligent, connected buoys for fishing fleets. He is a lifelong entrepreneur with over twenty years of experience launching and growing innovative businesses in overlooked markets. Prior to joining Blue Ocean Gear, Peter co-founded and led a series of businesses in the professional services and technology spaces including Integrity Gaming, a provider of gaming equipment, technology, and related financing. He began his career as an investment banker at JP Morgan and Wells Fargo working with business owners and managers across a wide range of sectors. As a concerned global citizen and lifelong diver, sailor, and naturalist, Peter is committed to the development and implementation of business models that will support the preservation, protection, and repair of our ecosystems.



Hezekiah "Ky" Holland
Founding Partner, Alyeska Venture Management

Hezekiah "Ky" Holland is a founding partner of Alyeska Venture Management that created and manages Alaska's first seed fund for startup ventures, the Alaska Accelerator Fund; and, currently is teaching entrepreneurship courses at the University of Alaska Anchorage, while promoting the innovation ecosystem in Alaska, building two new startup companies, and an expert witness in earthmoving and industrial IoT patent litigation. Recently Ky was the University of Alaska Fairbanks Technology Commercialization Officer; and prior to that, a founding board member of the Launch Alaska Accelerator, and the Hickel Professor of Strategic Leadership and Entrepreneurship at Alaska Pacific University. Ky is active in national innovation ecosystem projects, an angel investor, startup founder, and his research focus is on innovation economics. He has a BS in mechanical engineering, an MBA in technology management, patent holder, mechanical PE, and 35 years of industrial product design, operations and leadership experience. Ky grew up in Alaska, has two family startups (kids) that have launched, and is active in community programs that "Build the Alaska We Want" for the next generation of Alaskans.



Maj. Gen. (Ret) "Randy" Church Kee

Commissioner, U.S. Arctic Research Commission and Executive Director, Arctic Domain Awareness Center

Maj Gen Randy "Church" Kee, United States Air Force (ret) serves as a U.S. Arctic Research Commissioner. He was appointed to the Commission by President Trump on November 10, 2020. General Kee is also the Executive Director of the Arctic Domain Awareness Center (ADAC) at the University of Alaska, a DHS Science and Technology (S&T) Office of University Programs Center of Excellence in Maritime Research, a position he has held since January 4, 2016. During his 30-year military career, General Kee led at the Squadron, Group, Wing and Air Ops Center levels. General Kee's staff assignments include U.S. Transportation Command, Headquarters USAF, and the U.S. Joint Staff in both Operations plus Strategic Plans and Policy Directorates. He culminated his military service as Director of Strategy, Policy, Planning and Capabilities for U.S. European Command (ECJ5/8) in Stuttgart, Germany. Church is a Global Fellow at the Woodrow Wilson Center Polar Institute, a Network Member of the Canadian hosted North American and Arctic Defense and Security Network at Trent University, Peterborough Ontario, and the U.S. designated lead for a technology working group for the U.S. Navy Office of Naval Research International Cooperative Engagement Program for Polar Research. Church also leads ADAC and associated university efforts in conducting Arctic Senior Leader Summits and Symposiums for Alaska Command, a Sub-Unified Command of U.S. Northern Command headquartered at Joint Base Elmendorf-Richardson Alaska. Finally, he is also the co-chair of the State of Alaska Civilian Armed Services Team (ACAST) an advisory board to the Governor of Alaska on defense and security matters.



Jason "Olaf" Roe, Petty Officer, USCG (Ret)

Associate Director and Senior Research Professional, Arctic Domain Awareness Center

Jason "Olaf" Roe, USCG (Ret), is the Associate Director and Senior Research Professional for the Arctic Domain Awareness Center (ADAC) at the University of Alaska, a DHS Center of Excellence. As Senior Research Professional, Mr. Roe's mission is to provide USCG operator focused coordination, guidance, and support to ADAC research and guide project development to maximize CG operational relevance. Mr. Roe's skill and experience with GIS systems, environmental models, and mission planning tools provides ADAC with valuable insight into CG operations. During his 12 years of service in Alaska, working with a wide range of Arctic stakeholders, Mr. Roe developed a respect and admiration for Arctic and rural Alaska, and is committed to increasing the safety and security of the Arctic Region through Community engagement and Operationally relevant research in support of the public good.



Elizabeth "Ellee" Matthews

Education and Administrative Manager, Arctic Domain Awareness Center

Ellee Matthews is the Education and Administrative Manager at the Arctic Domain Awareness Center (ADAC). At ADAC, Ellee's primary role is to manage the Center's Education Program, which focuses on workforce development for undergraduate and graduate students seeking science and technology career fields, particularly in the realm of Arctic research. Born and raised in Alaska, Ellee has focused both her professional and academic careers on the Arctic region, with particular emphasis on resilience in Alaska's communities, public health challenges, human-environmental interactions, and disaster response. She received her B.S. in Zoology from Colorado State University, and her MSc. in Environment and Development from the University of Edinburgh. Ellee is also currently a Ph.D. student at the University of Alaska Fairbanks studying biological sciences.



Connor "Conan" Keesecker

Communications and Research Associate, Arctic Domain Awareness Center

Connor Keesecker serves as the Communications and Research Associate for the Arctic Domain Awareness Center. In this role, Connor supports the development of ADAC reports and knowledge products as well as providing support for the Center's communications operations. Born and raised in Eagle River, Alaska, Connor discovered an interest in the Arctic while studying at the University of Alaska Anchorage, where he earned a B.A. in International Studies with Minors in Political Science and History. Before ADAC, he worked on local community development issues in Anchorage, focusing on identifying and implementing best practices in northern placemaking for local non-profits.



Kelsey "Doc Freeze" Frazier

Research Associate, Arctic Domain Awareness Center

Kelsey "Doc Freeze" Frazier is an avid Alaskan outdoorswoman but a consistently slow runner. She would argue, though, that being the slowest runner of the group means you get more time to enjoy being outside! It was her indefatigable love of all things outdoors that led Kelsey to pursue a career promoting both human and environmental safety. Kelsey began her tenure with ADAC as a fellow where she supported projects investigating oil spill remediation in the Arctic, the complexities of sea ice substructures, and where she laid the groundwork for what is now the Arctic Ice Condition Index (ARCTICE). After graduating in December of 2019 with her B.S. and M.S. in Mechanical Engineering, Kelsey continued in a new role at ADAC as a Research Associate. Currently she supports the advancement of the ARCTICE project, participates in an international sea ice modeling colloquium, and is working to develop new projects to support a safer Arctic region. Kelsey is also currently a Ph.D. student at the University of Alaska Fairbanks studying Mechanical Engineering.
