

ECHO Climate Change Symposium

Panelists

Katherine Ahgeak

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David Arnold

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Professional Experience

Present: Freelance writer, photographer, and web video producer of travel/adventure stories targeted to newspapers, magazines and web sites. Video productions use a helmet-mounted camera for first-person points of view

Co-producer and art director of a global warming exhibit now on tour.

1978-2003: Staff reporter, Boston Globe. While I specialized in feature pieces for the City Desk, I also did tours for the Science, Environment, Sports, World, and Travel Desks, and also the Sunday magazine. About 2,000 stories may be found on the internet.

I was the first reporter allowed into the Soviet missile-building city of Votkinsk and the first reporter to fly the F/A-18 jet. Assignments took me 19,000 up to the Mount Everest Base Camp and 2,000 feet down the Cayman Trench. I mined gold in Australia, dived into sunken submarines off the New England coast, and was a regional semi-finalist in a competition to fly aboard the Space Shuttle. The Challenger explosion suspended the competition.

1978-1980: Graphic designer for The Boston Globe, where responsibilities included designing section fronts in the pre-computer era.

1974-1978: Owner of a small graphic design and photography business.

EDUCATION

Yale University, M.A in Fine Art, 1974
Harvard University, B.A. in Visual Studies, 1971
Phillips Academy Andover, 1967

AWARDS AND PUBLIC ACKNOWLEDGMENTS

Reuters-IUCN Environmental Media Award 2002, winner for North America
Lydia Goodhue Award for reporting excellence, Boston Harbor Association, 1998
World Award, Heifer Project International, 1987
NASA Journalist in Space, regional semi-finalist, 1986

Featured on National Public Radio's All Things Considered in 2006 and ABC Television's World News Tonight in 2007 for the global warming exhibit.

PERSONAL

I am 60 years old, in excellent health, married with grown children. Among other certificates, I hold current licenses to fly single engine airplanes and captain motor and sailing vessels not exceeding 50 tons. References are available upon request.

C. Eugene Brower

cebrower@ak.net

Eugene Brower was born in Barrow, AK, where he currently lives. After finishing high school in 1967 from Mt. Edgecumbe, Alaska, Mr. Brower went on to Haskell Institute, now known as Haskell Indian Nations University. Eugene majored in Electronics and graduated in 1969 and went to work for Argonne National Laboratories in Idaho Falls, Idaho. After a short time he returned home and went to work for FAA as an electronic technician in late 1970 and worked until fall of 1975 when he went to work for the newly formed borough called North Slope Borough as a heavy equipment operator. He quickly rose in different positions within the borough and was elected as the Mayor in 1981. After a term in office of the mayor, he went to work for different construction companies then returned back to work for the North Slope Borough working in the Fire Department. Eugene worked up the ranks to become the Fire Chief and worked as the fire chief until he retired in October of 2005.

Eugene has been a subsistence hunter all his life both on land and sea, starting at the early age of eight. As a young whaling crew member he had to learn all aspects of whaling, ice formations, and sea currents. During each whaling season, his whaling captain or his co-captain would start orally asking him if he remembered what he had learned and taught the year before. Whaling is learned by doing and seeing. Because of his background in subsistence whaling the USA delegation to the International Whaling Commission (IWC) has had him on the delegation to speak to the issues of whaling and associated issues on subsistence whaling.

ASSOCIATIONS AND COMMUNITY ACTIVITIES

Arctic Slope Regional Corporation – Board of Directors
Barrow Whaling Captains Association – President
Barrow Volunteer Search & Rescue
Barrow Volunteer Fire Dept
North Slope Borough Assembly - President
Presbyterian Church - Board of Trustees

Timothy Churchill

Tennessee Wildlife Resources Agency

Special Asst. to Executive Director

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I am special assistant to the executive director of TWRA. My job is largely grant writing which I do to deliver science and land conservation in TN. I am a fisheries biologist by background and spent 9 years as the statewide coordinator of reservoir fisheries before coming into this position 3 years ago. I have a Bachelor of Science in Ecology, a Master of Science in Fisheries Biology, and recently earned a law degree (Juris Doctor). In previous lives, I worked for the IL Natural History Survey and as a research biologist for NC State University. Lately, I have been working with our Agency staff to incorporate climate change into our Statewide Action Plan for wildlife.

I am anxious to share Tennessee's experience in wrestling with climate change. We are not the only state trying to get our heads around the question of how populations will "adapt" to changing environmental conditions. Our state has quite a few indigenous species (especially fish and mussels) that are found no where else in the world, and many of these are already threatened or endangered. I hope that I can add a little different perspective from the more climate-based talks and keep things interesting at the same time.

Xavier Cortada

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<http://www.reclamationproject.net>

Xavier Cortada has created art installations in the North Pole (2008) and South Pole (2007) to address environmental issues at every point in between. Cortada has worked with groups across the world to produce numerous collaborative art projects, including eco-art interventions in Finland, Latvia and in his hometown of Miami, as well as peace murals in Cyprus and Northern Ireland, child welfare murals in Bolivia and Panama, AIDS murals in Geneva and South Africa.

Cortada has also been commissioned to create art for the White House, the World Bank, the Florida Supreme Court, the Florida Governor's Mansion, Miami City Hall, Miami-Dade County Hall, the Miami Art Museum, the Museum of Florida History and the Frost Art Museum.

SELECTED GROUP EXHIBITS

2008 The Green Project (concurrent with Art Basel), Miami, FL

2008 Polar Attractions, Peabody Essex Museum, Salem, MA

2008 EPA (Environmental Performance Actions), EXIT ART, New York, NY

2007 Weather Report, Boulder Museum of Contemporary Art, Boulder, CO

2007 Envisioning Change, an international touring exhibit presented by the UNEP

(United Nations Environment Programme) and the Natural World Museum:

Nobel Peace Center, Oslo, Norway

Bozar Centre for Fine Arts, Brussels, Belgium

Ministry of Culture, Monaco (2008)

- 2006 SCOPE Art Fair Sculpture Garden, Miami Beach, FL
2006 Miami in Transition, Miami Art Museum, Miami, Florida

SELECTED SOLO EXHIBITS

- 2007 The Reclamation Project and Native Flags, Miami Science Museum, Miami, FL
2007 South Pole Installations, Wolfson Center Gallery, MDC Art Galleries, Miami, FL
2007 Antarctica, Kunsthaus Contemporary Art Space, Miami, FL
2006 The Reclamation Project, Bass Museum of Art, Miami Beach, FL

SELECTED PUBLIC ART PROJECTS

- 2008 Art in State Buildings, Frost Art Museum, Miami, FL
2008 Monroe County Art in Public Places, Upper Keys Government Center, FL
2008 Pinellas County Art in Public Places, Florida Botanical Gardens, Largo, FL

SELECTED AWARDS

- New York Foundation for the Arts, NYFA sponsored artist, 2008
Creative Capital Professional Development Program, 2007
National Science Foundation Antarctic Artists and Writers Program, 2006-07

EDUCATION

- December 1991 Juris Doctor
University of Miami School of Law Coral Gables, Florida.
December 1991 Master of Public Administration
University of Miami Graduate School.
December 1986 Bachelor of Arts
University of Miami College of Arts and Sciences.

Leon Geschwind

Senior Science Educator
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Leon R. Geschwind, Senior Science Educator at the Bishop Museum, has a B.S. in Global Environmental Science, Post-Baccalareate Certification in Secondary Education, and has done M.S. coursework in Geology and Geophysics at the University of Hawaii, studying the active Kilauea Volcano on the Big Island.

Over the past five years at the museum, he has developed and delivered science education programs on-site and to schools and communities throughout the state of Hawaii, serving over 10,000 students annually through the Holoholo Science outreach program. (<http://www.bishopmuseum.org/holoholo>).

He has provided science content expertise for many of the volcanological-related exhibits in the new Science Adventure Center and has been the head developer for Science on a Sphere (6 foot diameter animate globe) earth system and climate science based programming. Currently, Leon is involved in an NSF Association of Science and Technology Center grant that looks at how to effectively communicate climate change to the general public. He is interested in projects that seek to bridge the gap between scientists and the general public/school children.

Richard Glenn

Executive Vice President, Lands and Natural Resources
Arctic Slope Regional Corporation
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Richard K. Glenn is Arctic Slope Regional Corporation's Executive Vice President of Lands and Natural Resources. Arctic Slope Regional Corporation ("ASRC") is the Alaska Native-owned regional corporation representing more than eight thousand Inupiat Eskimos of Alaska's North Slope. The shareholders of ASRC own surface and subsurface title to nearly five million acres of Alaskan North Slope lands with oil, gas, coal and mineral resources. Richard also holds an At-Large seat on ASRC's Board of Directors.

Richard received a Bachelor of Science degree in Geology from San Jose State University in 1985 and a Master of Science degree in Geology from the University of Alaska (UAF) in 1991. Richard has special expertise in resource development in an Arctic setting, and is well-versed in on and offshore Arctic geologic processes.

In 1995, Richard was asked to head Alaska's North Slope Borough Department of Energy Management, where he supervised the energy programs for all of the North Slope Borough villages. He continued in this capacity until January 2001. Richard began his duties at ASRC on February 5, 2001 and now also serves on the ASRC Board of Directors in the At-Large seat.

Richard is a certified professional geologist in the state of Alaska, and holds positions on many boards and commissions, most of them dedicated to education and scientific research. In addition to other postings, he has twice been appointed by the President to the United States Arctic Research Commission, is the Board President of the Barrow Arctic Science Consortium, and has served as Chairman of the Board of Trustees for Ilisagvik College.

Richard also serves as co-captain of the Savik Ahmaogak subsistence whaling crew. He is a member of the Suurimmaanitchuat Eskimo dance group and a budding rock-and-roll keyboardist.

SELECTED PUBLICATIONS, ABSTRACTS AND INVITATION PRESENTATIONS

George, J.C., Huntington, Henry P., Brewster, Karen, Eicken, Hajo, Norton, David W., and Glenn, Richard, 2004, **Observations on Shorefast Ice Dynamics in Arctic Alaska and the Responses of the Inupiat Hunting Community**. Arctic: (Human Dimensions of the Arctic System Special Issue) 57(4) 362-374.

Brewer, M.C., Carter, L.D. and Glenn, R.,1993, Sudden drainage of a thaw lake on the Alaskan Arctic coastal plain. **Sixth International Conference on Permafrost, Beijing, China. Proceedings 1**. South China University of Technology Press, Guangzhou, China, 48-53.

Glenn, Richard K. and Allen, William, W., Geology, 1993, **Reservoir Engineering and Methane Hydrate Potential of the Walakpa Gas Field**, North Slope, Alaska, US Dept of Energy METC Final Technical Report, DE-FG21-91MC28131.

America's Farthest North Producing Gas Fields, A Narrative of the USGS and its Early Hydrocarbon Explorations Efforts Near Barrow, Alaska, Presented at the USGS Congressional Briefing: "Science, Society, Solutions", September 20, 2002, Capitol Hill, Washington DC.

Traditional Knowledge and the Clash of Two Cultures, 2002, Presented at Minerals Management Service Traditional Knowledge Session, Provo, Utah.

US Senate and House Testimonies at Congressional Committee Hearings.

Alaska State House Testimonies at Committee Hearings.

Amber Inwood

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Holding a Bachelor of Science, Honors in Hydrogeology and Geophysics, Amber's intended career was to be a scientist. During a 6 month study abroad with the University of Iceland, Amber worked part-time as an assistant geologist for local company STAPI Ltd., as well as studying volcanology and assisting with Greenland ice core research through the university. Following this, Amber then attended the University of Auckland, New Zealand to further her studies undertaking an honors thesis on the textural and mineralogical differences in hot spring deposits in the Taupo region of the North Island. However, realizing that the world as a professional scientist was not for her, she then followed her childhood dream (much to the surprise of her parents) and became a Park Ranger. Amber enjoyed 5 blissful years as a Park Ranger in the Auckland region during which time she was given a wonderful opportunity to intern for 6 months with the San Diego County Parks Department. It was as a Park Ranger that Amber found her true passion was in education, in particular environmental education.

Though originally from Australia, Amber has now been a member of the Science Education team at Bishop Museum for 2 years. Here she has been able to take part in many projects which have encompassed her 2 main passions, the environment and education.

Edward S. Itta

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Ku'ulei Rodgers Ph.D.

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Biography:

As part of the Coral Reef Ecology Lab at the Hawai'i Institute of Marine Biology (University of Hawai'i) since 1993, Dr. Ku'ulei Rodgers has worked on a wide range of projects that have focused on both introduced and endemic marine species. As co-principal investigator for the Coral Reef Assessment and Monitoring Program, Ku'ulei played a pivotal role in developing an on-going statewide monitoring program in 1998. This has led to research related to anthropogenic impacts that influence nearshore reef condition including aspects of human trampling and bio-indicators of decline in coral reefs. Research on global and climate change impacts include manipulative experimentation to understand the effects of temperature and ocean acidification on biological organisms. A number of projects are directed at producing data required for sound environmental management of tropical marine coastal ecosystems.

Glenn W. Sheehan

Executive Director
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Dr. Sheehan is the founding Executive Director of the Barrow Arctic Science Consortium (BASC), which started in 1996. He was the founding curator when the Inupiat Heritage Center opened. He also has helped create numerous traveling exhibits. Prior to BASC's creation Dr. Sheehan worked throughout bush Alaska and elsewhere on cultural resources projects. On Alaska's North Slope he was principal investigator for the three year NSF-funded Point Franklin Archaeology project. He was a Surface Warfare Officer and a Brig Officer in the Navy. Dr. Sheehan's work with BASC has included writing and administering successive cooperative agreements with the U.S. National Science Foundation (NSF) amounting to over \$21M in funding for BASC. He also has been successful in raising other external funding for BASC, which is a 501(c)(3) nonprofit corporation.

He supervised creation of a North Slope Borough-zoned Scientific Research District coterminous with the BASC-administered Native Inupiat Eskimo-owned Barrow Environmental Observatory (BEO). The BEO covers 7,466 acres of land and is home to numerous research projects and longterm observation programs.

Dr. Sheehan's work at BASC includes the ongoing facilitation of new Congressionally-funded science support construction in Barrow. The first phase of construction, at \$20M, created the first science laboratories to be built in Barrow in almost 50 years. Under Dr. Sheehan, BASC administers research grants for a variety of researchers. Currently, these include multiple U.S. Department of Education and NSF grants. One of the grants brings together students from Mexico and Alaska in field research projects in both countries.

The Barrow Whaling Captains Association and the Alaska Eskimo Whaling Commission have designated BASC as point of contact for scientists wishing to conduct research that might affect subsistence species or the federally protected Native right to conduct subsistence hunting.

Dr. Sheehan has experience advising top managers and policy makers in federal and regional organizations and Congress. He works and communicates well with people from different professional backgrounds. He works closely with the North Slope Borough Mayor's Office, the U.S. Arctic Research Commission, the Alaska Ocean Observing System, the U.S. Coast Guard, and others. He has experience working with and advising on complex issues that integrate multiple disciplines.

In a typical year Dr. Sheehan is responsible for overseeing placement of up to 36 local students with field research projects. He also administers an outreach program that includes 80+ presentations annually in the communities and schools of the North Slope.

BASC provides scientists with field logistical support, including serving as the ashore contact for U.S. and foreign science icebreaker missions. In a recent year over 626 visiting researchers were assisted. Scientists in Russia are assisted by the Native-run Chukotka Science Support Group, which BASC helped create as a sister organization to BASC. Dr. Sheehan oversees a staff of 8. BASC's permanent staff is supplemented by up to 20 temporary helpers during busy seasons.

David J. Welty, Ph.D.

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David J. Welty, Science Education Specialist for the Ocean Explorium at New Bedford Seaport and 6-12 Science and Engineering Academic Coordinator for the Fairhaven Public Schools, is a trained molecular biologist with a B.S. in molecular genetics from The Ohio State University and a Ph.D. in biochemistry and molecular biology from Georgetown University. His thesis was on protein chaperone interactions in Mu bacteriophage virulence. While at Georgetown University, he tutored medical students in Biochemistry and thoroughly enjoyed the endeavor. After a short stint working with HIV Integrase inhibitors, he made the transition to teaching high school science through the George Washington University and the Fairfax County, Virginia Public Schools.

After obtaining certification in Massachusetts in both biology and chemistry, he has been teaching for 10 years in the Fairhaven Public Schools, which sits on the New Bedford Harbor along the Acushnet River. He has been the Science and Engineering Academic Coordinator for the past eight years. Since a significant part of the school district's population makes a living from the sea, he has overseen the infusion of Ocean Science Literacy into the science curriculum. In addition, he has implemented a reusable energy pathway for next year that will allow students to explore the discipline through engineering, computer-aided design, and course work. This will allow students to receive 21st century skills and career development along side their traditional science coursework. In

addition, he is an adjunct professor at UMASS-Dartmouth for Methods in Biology and Marine Science for Teachers.

Dr. Welty has been working the past 3 years for the Ocean Explorium planning teacher professional development programs in the areas of art, history, and earth sciences. Over the last two years he has offered expertise in using the Science on a Sphere® as an instructional tool for schools, teachers, and the general public. He brings a classroom perspective to development of instructional practices used with the SOS student field trip and teacher professional development programs.

S. Jeffress (Jeff) Williams

Senior Coastal Marine Geologist

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S. Jeffress Williams, a senior research coastal marine geologist with the U.S. Geological Survey at the Woods Hole Science Center, Woods Hole, Mass., has focused his research career on the geologic history and processes of coastal, estuarine, wetland, and inner continental shelf regions. He has more than 35 years research experience investigating topics such as the geologic origins and development of marine coastal and estuarine as well as Great Lakes coastal systems, Holocene to modern sea-level history, climate change effects on coasts, and the geologic origins of modern marine sand bodies and their importance to coastal sediment budgets. Williams has participated in more than 80 field studies along the Atlantic, Gulf of Mexico, Pacific, Irish Sea, and Great Lakes coasts.

He has authored more than 300 research papers, reports and abstracts, and been a member on more than a dozen high-level national and state science committees, including the National Academy of Sciences, National Ocean Partnership Program, 1998 National Oceans Conference, Coral Reef Task Force, Louisiana Wetlands Restoration Task Force, the Louisiana Sand Task Force, testimony to Congress on Katrina effects on Louisiana, and most recently a co-lead author on the U.S. Climate Change Science Program SAP 4.1 report assessing sea-level rise effects on U.S. coasts. In addition, Williams is a frequent lecturer at scientific conferences and speaks often to students, state and local legislatures, and civic groups on coastal and climate change-related topics.

Prior to taking his current research position at the Woods Hole Science Center, Williams directed the Coastal and Marine Geology Program from 1996 to 2000, at USGS headquarters, Reston, VA. Prior to joining the USGS, Williams was a research marine geologist with the Coastal Engineering Research Center and an invited visiting scientist at the Institute of Oceanographic Sciences, Taunton, UK. He earned degrees in geology/geophysics and oceanography from Allegheny College and Lehigh University and completed military service as a commissioned officer in the Army Corps of Engineers.

Williams' current research is focused on three main topics: 1) leading a national synthesis and assessment of the state-of-science about offshore marine sand and gravel aggregates, including new geologic maps of offshore areas; 2) assessing the risk and vulnerability of U.S. coastal regions to climate change and predicted sea-level rise and increased storm activity; and 3) serving as a scientific advisor to system-scale coastal and wetland ecosystem restoration activities in Louisiana.

Charles Wohlforth

Author / Journalist

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Charles Wohlforth is a life-long Alaska resident and prize-winning author of numerous books about Alaska. His work includes writing about science and the environment, politics and history, travel, and as-told-to biography. A popular lecturer, he has spoken all over the United States and overseas. Wohlforth lives with his wife, Barbara, and their four children. They reside in Anchorage during the winter, where they are avid cross-country skiers, and in summer on a remote Kachemak Bay shore reachable only by boat.

Wohlforth, 45, graduated magna cum laude from Princeton University in 1986 before returning to Alaska to work six years as a newspaper reporter, including covering the *Exxon Valdez* oil spill for the *Anchorage Daily News*. He became a full-time freelance writer in 1993, publishing articles in *The New Republic*, *Outside*, *National Wildlife* and other periodicals, and writing three travel books published by Wiley. He also served two 3-year terms on the Anchorage Assembly, representing the city's downtown area, and remains politically active as a speechwriter.

In 2004, Farrar, Straus & Giroux published Wohlforth's widely acclaimed non-fiction account of climate change in the Arctic as experienced by the Eskimos and the scientists studying it, titled *The Whale and the Supercomputer*. The book won *The Los Angeles Times* Book Prize for Science and Technology, among numerous other national and regional citations for science, culture, and journalism. His current projects include an upcoming book for St. Martin's Press with the working title, *Hidden Waters: Human Nature and the Fate of the Oceans*.

RECENT BOOKS PUBLISHED AND UNDER CONTRACT

Hidden Waters: Human Nature and the Fate of the Oceans (Thomas Dunne Books/St. Martin's Press, publication 2010). Humankind's capacity to save the oceans examined through the lenses of history, anthropology, science and personal stories.

Saving for the Future: My Life and the Alaska Permanent Fund (By Dave Rose as told to Charles Wohlforth; Epicenter Press, 2008). Biography of an Alaskan pioneer politician and history of Alaska's enormous oil wealth savings account.

The Whale and the Supercomputer: On the Northern Front of Climate Change (North Point Press/Farrar, Straus & Giroux, 2004). Indigenous and scientific perceptions of Arctic climate change. Published in French as **La baleine et le supercalculateur** (Paulsen, 2008).

RECENT WORK INCLUDED IN BOOKS OR ANTHOLOGIES

Alaska at 50: Past, Present, and the Next Fifty Years of Statehood, edited by Dr. G. W. Kimura (University of Alaska Press, publication 2009).

The Last Polar Bear: Facing the Truth of a Warming World, by Steven Kazlowski, et al. (Braided River/The Mountaineers Books, 2008).

The Future of Nature: Writing on a Human Ecology from Orion Magazine, selected and introduced by Barry Lopez (Milkweed Editions, 2007).

Global Climate Change, edited by Paul McCaffrey (H.W. Wilson, 2006).

The Alaska Reader: Voices from the North, edited by Anne Hanley and Carolyn Kremers (Fulcrum, 2005).

RECENT AWARDS

2005

American Meteorological Society: Louis J. Battan Author's Award for outstanding, newly published book on the atmospheric and related sciences.

2004

Los Angeles Times Book Prize: winner, science and technology.

Overseas Press Club of America: citation, best reporting in any medium on international environment issues (Whitman Bassow Award)

Library Journal "Best Books 2004": listed

Alaska Library Association: Outstanding Alaskan of the Year (best Alaska book for 2004)

Kiryama Prize: one of five finalists for a \$15,000 award for nonfiction on Pacific Rim cultures.

2003

Anchorage School District: Award for Excellence for leadership as chairman for two years of School Bonds YES! campaign, which won voter approval of \$264 million in bonds.

2001

Alaska Press Club: Best Reporting on Health or Science, Non-Daily