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<tr>
<td>8:00 am</td>
<td>Registration and Coffee Service Begins</td>
<td>Gold Ballroom Entry</td>
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<td>9:00 - 9:30 am</td>
<td>Welcoming and Opening Remarks&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;Brian Rogers, Chancellor, UAF&lt;br&gt;   &lt;br&gt;   &lt;br&gt;Dan Julius, Vice President, UA&lt;br&gt;   &lt;br&gt;   &lt;br&gt;Buck Sharpton, Vice Chancellor of Research, UAF&lt;br&gt;   &lt;br&gt;   &lt;br&gt;Carl Benson, Arctic Institute of North America (AINA)&lt;br&gt;   &lt;br&gt;   &lt;br&gt;Craig Gerlach, President, Arctic Division AAAS</td>
<td>Gold Ballroom</td>
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<tr>
<td>9:30 - 12:00 pm</td>
<td>Plenary Session&lt;br&gt;  &lt;br&gt;Climate Change and Policy Directions&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;Buck Sharpton, Vice Chancellor of Research, UAF&lt;br&gt;   &lt;br&gt;   &lt;br&gt;IPY North by 2020 in the Context of Adaptation and Sustainable Response&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;Hajo Eicken, Associate Professor of Geophysics, UAF&lt;br&gt;   &lt;br&gt;   &lt;br&gt;As if the Concerns of our Students Mattered; As if our Planet were at Stake&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;Catherine Middlecamp, Professor of Chemistry, University of Wisconsin-Madison&lt;br&gt;   &lt;br&gt;   &lt;br&gt;Utilizing a Lakota Worldview to develop Science and Cultural Leadership for a new Generation: A Tribal College and University Case Study&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;James Rattling Leaf, South Dakota School of Mines and Technology&lt;br&gt;   &lt;br&gt;   &lt;br&gt;International Study of Arctic Change&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;Maribeth Murray, UAF&lt;br&gt;   &lt;br&gt;   &lt;br&gt;Coping with Change&lt;br&gt;  &lt;br&gt;   &lt;br&gt;   &lt;br&gt;Carl Benson, Professor Emeritus, UAF</td>
<td>Gold Ballroom</td>
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<td>12:00 - 1:30 pm</td>
<td>Lunch (on own)</td>
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<td>1:30 - 3:30 pm</td>
<td>Poster Set Up&lt;br&gt;  &lt;br&gt;Technical Sessions:&lt;br&gt;  &lt;br&gt;<strong>Observing Change: Cycles and People</strong>&lt;br&gt;  &lt;br&gt;David Atkinson&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Distribution of Active Layer Temperatures and Snow Cover Across a Polygon, Barrow, Alaska&lt;br&gt;  &lt;br&gt;  &lt;br&gt;Anna Liljedahl&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Assessment of the Influence of Ecosystem-Induced Summer-Albedo Changes over Pan-Arctic on Arctic and Global Climate&lt;br&gt;  &lt;br&gt;  &lt;br&gt;Debasish PaiMazumder&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Evaluating the Effective Loss of Wildlife Habitat from Vehicular Traffic in a Subsistence Community&lt;br&gt;  &lt;br&gt;  &lt;br&gt;Colin Shanley&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Break&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Vulnerability and Adaptation to Climate-Related Fire Impacts in Rural and Urban Interior Alaska&lt;br&gt;  &lt;br&gt;  &lt;br&gt;Sarah Trainor&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Monitoring for Ecosystem Health: Nushagak Bay Biodiversity Project&lt;br&gt;  &lt;br&gt;  &lt;br&gt;Sarah Wingert&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• AAAS Center for Science, Technology, and Sustainability&lt;br&gt;  &lt;br&gt;  &lt;br&gt;Sarah Banas</td>
<td>Minto/Yukon Rooms</td>
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<tr>
<td>1:30 - 4:00 pm</td>
<td>Interdisciplinary Education&lt;br&gt;  &lt;br&gt;Catherine Middlecamp and Lawrence Duffy&lt;br&gt;  &lt;br&gt;  &lt;br&gt;• Opting In or Getting Away? A Look at the Choices, Experiences and Outcomes of Mt. Edgecumbe High School</td>
<td>Middle Gold</td>
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Graduates from 1986-2006

Diane Hirshberg
- Growing Sustainability through Place-based Education in Interior Alaska
  Laura Henry-Stone
- PolarTREC: Successful Methods and Tools for Attaining Broad Educational Impacts with Interdisciplinary Polar Science
  Kristin Timm
- Break
- SENCER Courses at UAF and IPY
  Lawrence Duffy
- Integrated Graduate Education and Training in Sustainability Science at UAF: The Resilience and Adaptation Program (RAP)
  Gary Kofinas
- Developing the UARCTIC Graduate Area
  Lawrence Duffy

National Parks and Public Lands in the North

Annie Duffy
- One Arctic National Park: Dreams, Necessities and Priorities when using Strategic Conservation Planning.
  Falk Huettmann
- Immersion in Wilderness
  Bill Brody
- Break
- The Historical Role of Alaskan Artists in the Establishment and Interpretation of Denali National Park and Preserve
  Kesler Woodward
- Visions, Impressions, and Interpretations: The Denali National Park Art Program’s Exploration of the Connection between Art and Science
  Annie Duffy

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<tr>
<td>4:00 - 5:00 pm</td>
<td>Poster Session with Refreshments</td>
<td>Minto/Yukon Rooms</td>
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<tr>
<td>5:00 - 6:00 pm</td>
<td>Dinner Break (on own)</td>
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<tr>
<td>6:00 - 7:00 p.m.</td>
<td>Sigma Xi and Golden Key Reception, with Awards</td>
<td>Gold Ballroom</td>
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<tr>
<td>7:00 - 9:30 pm</td>
<td>15th Arctic Institute of North America Forum “Coping with Change”</td>
<td>Gold Ballroom</td>
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Tuesday, September 16th, 2008 Theme: Understanding Change

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<td>9:00 - 5:00 pm</td>
<td>Poster Displays</td>
<td>Minto/Yukon Rooms</td>
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<tr>
<td>9:00 - 12:00 pm</td>
<td>Technical Sessions: Engaging Local Expertise in Food Systems Philip Loring</td>
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<td>Gardening, Ethnobotany and Potatoes: A Revitalization of Resilient Sustenance Strategies of Southeast Alaska Tlingit Cultivation Methods Elizabeth Kunibe</td>
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<td>Ideas from Abroad: International Comparisons of Food Security Models in Canada, Australia, Alaska and Greenland Jacqueline Greenblatt</td>
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<td>Enhancing the Utilization of Alaska Salmon Byproducts Peter Bechtel</td>
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<td>Break</td>
<td>West Gold</td>
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What is the Future Role of Wild Game in Alaska Food Systems?
*Thomas Paragi*

Voices of the Caribou People
*Archana Bali*

Proposed Research on Migrating Food Insecurity: Rural to Urban Movement Amongst Food Insecure Alaskans
*David Fazzino*

Redesigning Alaska's Food Systems for Health: The Foodshed.
*Philip Loring*

**Climate Change and Atmospheric Sciences**

Ted Fathauer

- Analysis of the Relation of Annual Pollen Release to the Weather in Fairbanks, Alaska
  *Ted Fathauer*

- Recent Rapid Changes in Atmospheric Circulations: An Impetus for Accelerated Arctic Climate System Changes Under Global Warming Forcing
  *Xiangdong Zhang*

- Developing a Decision-support Tool for Long-term Infrastructure Planning on the North Slope of Alaska
  *Larry Bright*

- Frost Protected Shallow Foundations (FPSF) for Interior Alaska Freezing Indices Between 4,000 and 8,000 Degree-Fahrenheit-Days; A Research Report
  *Paul Perreault*

**Quaternary Beringia and Adjacent Oceans: The Key to Recent Change I**

Nancy Bigelow

- The Prelude to the Present
  *R. Dale Guthrie*

- Prehistoric Changes in Climate, Landscape, and Large Mammal Faunas in the Arctic Foothills, Northern Alaska
  *Daniel Mann*

- Hard Rocks and Soft Dates: Using Molecular Dating to Evaluate the Evolutionary History of Pikas in North America
  *Lanier & Olson*

- Break

- Variability in Hunter-gatherer Ecology in Late Pleistocene/Early Holocene Beringia
  *David Yesner*

- Late Pleistocene and Holocene Economic and Technological Change in Interior Alaska.
  *Ben Potter*

- Changes in Oceanic and Atmospheric Conditions During the Last Two Million Years Inferred from Eolian Sediment Records in Alaska
  *James Beget*

- Paleoproductivity of the Northeast Pacific Ocean During the LGM-Holocene Transition: Evaluating the Possible Role of the Marine Ecosystem in the Peopling of the Americas
  *Jason Addison*

12:00 - 1:30 pm  Lunch (on own)
1:30 - 4:00 pm  Technical Sessions:

**Terrestrial Response to Rapid Climage Change and Land Use Change in the Arctic**

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**Middle Gold**

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**East Gold**

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**West Gold**
Donald (Skip) Walker and Maribeth Murray

- Spatial patterns of NDVI distribution on the Yamal Peninsula
  Martha Reynolds
- Cumulative effects of rapid land-cover and land-use changes on the Yamal Peninsula, Russia
  Donald (Skip) Walker
- Cumulative Impacts of Petroleum Development on Reindeer Herding in Northwest Russia
  Bruce Forbes
- Trends and Variability of Sea Ice, Land Surface Temperatures, and Vegetation in Northern Alaska.
  Uma Bhatt

Northern Engineering I

Debendra Das

- Quantifying Ice Formation in Course Grain Soils using Tomodensitometry
  Matthew Dillon
- Does Particle Size Distribution of Pulverized Coal Impact CO2 Emissions in a Power Plant?
  Rajive Ganguli
- Energy Consumption and Emission Reduction using Electric Vehicles in Alaska
  Michael Golub
- Low Salinity Cyclic Water Floods for Enhanced Oil Recovery in Alaska North Slope
  Satish Kulathu
- Estimating Future Costs of Public Infrastructure at Risk from Climate Change
  Peter Larsen
- Desorption Kinetics for Cadmium Adsorbed on to Citrus Peels: A Process for Biosorbent Regeneration after Treatment of Mine Tailings
  Eloah Njikam
- Measurement of the Thermal Conductivity of Silicon Dioxide Nanofluid to Compare Its Performance with Conventional Fluids
  Bhaskar Sahoo
- Comparison of Nanofluids Performance in Building Heating Systems
  Roy Strandberg
- Evaluation of the Performance of Nanofluids as Automobile Engine Coolants
  Ravikanth Vajjha

Quaternary Beringia and Adjacent Oceans: The Key to Recent Change II

Nancy Bigelow

- Variation in the Stable Oxygen Isotopic Composition of Chironomids as Evidence for Shifts in Atmospheric Circulation Patterns During the Late Quaternary in Southwest Alaska
  Yiming Wang
- Three New Pollen Records from Southwestern Alaska — the Effects of Plant Migration, Climate, and Tephra on the Vegetation
  Nancy Bigelow
- Integrated Records of Holocene Landscape Change: A Holistic View of Vegetation Response to Climate, Geography, and Disturbance in Southwest Alaska
  Patricia Heiser
- Holocene Paleoenvironmental Response to the Recession of
Glacial Lake Atna, Copper River Basin, Alaska

Grant Shimer

- Break
- A Detailed Paleoecological Reconstruction of a Late Pleistocene (31,600 14C years before present) Paleo-turf from Interior Alaska
  Matthew Wooller
- Climate Sensitivities of *Picea glauca* on the Yukon and Tanana River Floodplains
  Claire Alix
- Thermokarst Lakes as a Source of Atmospheric CH4 During the Last Deglaciation and Prospect for Future Emissions as the Yedoma Ice Complex Thaws
  Katey Walter

4:00 - 5:00 pm  Poster Session with Refreshments  Minto/Yukon Rooms
7:00 - 9:00 pm  Understanding Change and Forecasting Resilience Using Agent Based Models  Gold Ballroom

Lilian Alessa

- Introduction
  Lilian Alessa
- The Role of Agents in Detecting Change and Building Resilience: Social Field Work as a Basis for Agent-based Modeling
  Andy Kliskey
- Forecasting Resilience in Arctic Landscapes: Addressing Multiple Social-Ecological Systems and Scales
  Mark Altaweel
- Discussion

Wednesday, September 17th, 2008 Theme: Responding to Change

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| 9:00 - 12:00 pm | Technical Sessions:  
  Circumpolar Health  
  Kriya Dunlap   | West Gold  |
|              | Environmental Impacts of Coal Development: Carbon Dioxide and Mercury  
  Kendra Zamzow  |                     |
|              | Social Change and Indigenous Culture in Six Circumpolar Communities: Negotiating a Collaborative International Research Study on Youth Resilience and Pathways to Adulthood  
  James Allen  |                     |
|              | Break                                                  |                     |
|              | Effect of Rapamycin on the Lifespan of Drosophila melanogaster  
  Tina Tran  |                     |
|              | The Role of Interleukin-1 and Interleukin-1 Receptor Antagonist in Head and Neck Squamous Cell Carcinomas: Initial Studies  
  Linda Nicholas-Figueroa  |                     |
|              | The Incidence of Syphilis and Combating its Proliferation in the Territory of Yakutia  
  Zoya Pavlova  |                     |

*11:40 ASCH Annual Business Meeting*
Policy, Sustainability Science and Adaptive Governance
Gary Kofinas and Chanda Meek
- On Thin Ice: Climate Change, Globalization and the Age of the Arctic
  Barry Zellen
- The Scenarios Network for Alaska Planning: Landscape Management Collaboration and Planning in a Climate of Change
  Nancy Fresco
- Land-Use Science and Environmental History Approaches to Evaluating the Sustainability of an Alaskan Social-Ecological System
  S.F. Loshbaugh
- Break
- Community Resiliency in Natural Resource Exploration: A Health Impact Assessment Approach
  James Edwin

AAAS - Shaping a Science Career is Never a Solitary Experience:
AAAS Career Development Resources
Richard Weibe

12:00 - 1:30 pm
Lunch (on own)
1:30 - 4:00 pm
Technical Sessions:
Alaska Native Leadership
Gordon Pullar
- The Role of Alaska Native Elders in the Cultural Resilience of Native Communities.
  Jordan Lewis
- That's Just Our Way
  Miranda Wright
- Bean Ridge Corporation: A Small Village Corporation and Adaptive Leadership
  Dixie Masak Dayo
- Developing a Leadership Model for Sustainable Development through Implementation of the Wolakota Concept: The Past, Present and Future Continuum
  James Rattling Leaf
- Sugpiaq Leadership on Kodiak Island: A History of Egalitarian Turmoil and Cultural Resilience
  Gordon Pullar
- Breaking the Ice: From Land Claims to Tribal Sovereignty in the Arctic
  Barry Zellen

Interdisciplinary Science/EPSCoR
Erich Follman
- Could Global Warming Increase Human Exposure to Rabies in the Arctic?
  Erich Follman
- The Seasonality of Reproduction in Photoperiod Responsive and Non-Responsive Northern Red-Backed Voles (Myodes rutilus) in Southcentral Alaska
  Kalb Stevenson
- Biosorption of Cd (II) by Citrus Peels in a Packed Bed Column
  Abhijit Chatterjee
- Development of Highly Sensitive Erythemal Ultra Violet Detectors for the Arctic
  Shiva Hullavarad
- Break
| The Role of Social Paradigm in Human Perception and Response to Change  
  *Paula Williams* |
| Sustaining the Capital of the Nushagak Watershed using an Interdisciplinary Science Approach  
  *Todd Radenbaugh* |
| Statewide Trends of Alaska Moose Hunters and Hunts  
  *Jennifer Schmidt* |
| St. Matthew Island: An Archive of Paleo- and Recent Ecological Change in Oceanic Beringia  
  *David Klein* |

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<td>4:00 - 4:15 pm</td>
<td>Closing Session and Final Remarks</td>
<td>Gold Ballroom</td>
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