



Sponsored by the National EPA-Tribal Science Council and hosted by the Grand Traverse Band of Ottawa and Chippewa Indians.

2010 National Tribal Science Forum

Grand Traverse Resort and Spa, Traverse City, Michigan

THEME: Mother Earth: Indigenous Knowledge and Science to Promote Positive Change

*Draft Agenda & Overview:
May 4, 2010*

Call for Papers/Posters for Concurrent Sessions:

Key Science Tracks for Concurrent Sessions

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| OVERARCHING THEME | Climate Change |
| TRACK 1 | Water—Day 1 Theme |
| TRACK 2 | Air—Day 2 Theme |
| TRACK 3 | Earth—Day 3 Theme |
| TRACK 4 | Healthy Communities—Day 4 Theme |

Total Conference Days: Four and a half

Half-Day Trainings:

- Day 3 AM—(Concurrent) Risk Perception/Water Quality Assessment
- Day 3 PM—(Concurrent) Risk Perception/Water Quality Assessment

Half Day Field Trips/Tours:

- Tribal host gathering/welcome ceremony Sunday evening
- Tour of Boardman River Watershed

Plenary Sessions (Daily):

- Day 1—Water: Host Tribal Elder to speak on water's importance to tribe
- Day 2—Air: National Oceanic and Atmospheric Administration
- Day 2—(Lunch) Climate change from an Adaptation Perspective
- Day 3—Earth: Development of a Tribal Natural Resources Index—Garvin
- Day 4—Healthy Communities: Yukon River Inter-Tribal Watershed (YRITW)

Open House

- Day 1—National Tribal Environmental Council

National Conversation on Public Health and Chemical Exposures

- Day 2—Agency for Toxic Substances and Disease Registry/CDC

Evening Movie

- Day 3—*Yukon Currents: Healing the River* (YRITW)

Poster and Exhibit Session (Day 1 evening)

- Posters and exhibits will be manned during an evening social
- Posters and exhibits will remain up throughout the forum
- Native craft vendors throughout the forum

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| 8:00 a m - 6:00 p m | Travel Day—SUNDAY, June 6, 2010 |
| 4:00 p m - 6:00 p m | Conference Registration — Governors' Prefunction |
| 4:00 p m - 5:30 p m | Tribal Science Council Meeting — Director's Room |
| 6:00 p m - 10:00 p m | Tribal Host Welcome – Turtle Creek Traditional welcoming ceremony/Pow Wow |

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| 8:00 a m – 5:30 p m | Day 1—MONDAY, June 7, 2010 | | |
| 8:00 a m – 9:00 a m | <p><u>PLENARY SESSION: Governors' CDEF</u> Formal Welcoming Session</p> <ul style="list-style-type: none"> ▪ Grand Traverse Band of Ottawa and Chippewa Indians (GTB) drum and dance/colors/invocation ▪ Welcome by Tribal Chairman GTB Derek Bailey ▪ Mr. Bharat Mathur, EPA Region 5 Acting Regional Administrator ▪ Dr. Peter Grevatt, Director of EPA's Office of Children's Health Protection and Environmental Education ▪ Dr. Paul Anastas, Assistant Administrator for EPA's Office of Research and Development (video broadcast) | | |
| 9:00 a m – 11:00 a m | <p><u>PLENARY SESSION: WATER : Governors' CDEF</u> Keynote Address:</p> <ul style="list-style-type: none"> • Keynote speaker: Frank Ettawageshik, Executive Director for the United Tribes of Michigan <p>Plenary Speech on Key Science Topic:</p> <ul style="list-style-type: none"> • Host Tribal Elder to speak of the importance of water to the tribe: Tom Peters, Tribal Elder of the Grand Traverse Band of Indians | | |
| 11:30 a m – 1:00 p m | <i>Lunch (On Your Own)</i> | | |
| Afternoon SCIENCE TRACKS | Mackinac Ballroom: | Tower Ballroom AB: | |
| 1:00 p m – 3:00 p m | <p><u>Water</u></p> <ul style="list-style-type: none"> • Tribal Stream and Wetland Restoration...Successful Watershed Restoration—Stacy Gilmore, Oneida Tribe of Indians of Wisconsin • Collaborative Watershed Improvement Project—Brett Fessell, Grand Traverse Band of Indians • Boardman River Dams Removal Project—Todd Kalish, Michigan Department of Natural Resources • Dam Removal: A Primer on the Best Restoration Tool in the Box — Andy Selle, Inter-Fluve | <p><u>Air</u></p> <ul style="list-style-type: none"> • Understanding the Mercury Problem in Tribal Country—David Gay, et al., University of Illinois • National Atmospheric Deposition Program: Lesson from a Continental-Scale Monitoring Network—David Gay and Christopher Lehmann, University of Illinois | |
| Afternoon SCIENCE TRACKS/ Field Trip | Mackinac Ballroom: | Tower Ballroom AB: | <u>Boardman River Watershed Tour</u> (Following Water presentations) 3:00 pm – 6:00 pm |
| 3:15 p m – 5:15 p m | <p><u>Earth</u></p> <ul style="list-style-type: none"> • Monitoring the Medicine in Habitat: Post-Harvest Regrowth & Mortality in a S. Texas Population of Peyote—Martin Terry, Cactus Conservation Institute and Sul Ross State Univ., Ted Herrera, Native American Church of Rio Grande • Predicting Current & Future Distributions of Invasive non-Native Vascular Plant Species in the Lake Superior region of Wisconsin—Miles Falck & Steve Garske, GLIFWC • Noxious and Invasive Weed Species, John Sterling, Yavapai-Prescott Indian Tribe | <p><u>Healthy Communities</u></p> <ul style="list-style-type: none"> • NCER Tribal Environmental Health Overview (Panel) — Maggie Breville, U.S. EPA (NCER) • Translating CBPR - Lessons Learned (Panel) — Timothy Ford, University of New England; Marie Eggers, Montana State University; Crescentia Cummings, Little Big Horn College | |
| 5:30 m – 7:00 p m | National Tribal Environmental Council Open House | | |
| 7:00 p m – 8:30 p m | Evening Poster and Exhibit Session (Sampling of Traditional Foods) – Governors' AB | | |

| 6:00 am – 7:00 pm | | Day 2—TUESDAY, June 8, 2010 | |
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| 6:00 am – 7:30 am | | Sunrise Blessing Ceremony – Pavilion | |
| 8:00 – 9:00 am | | PLENARY SESSION: AIR: Governors' Ballroom CDEF • National Oceanic and Atmospheric Administration: Climate Services for Society: People, Places and Partnerships —Eileen Shea, Doug Kluck, and Heather Stirratt | |
| Morning SCIENCE TRACKS | Mackinac Ballroom: | Tower Ballroom AB: | |
| 9:15 am – 10:30 am | <u>Water</u> <ul style="list-style-type: none"> Impacts of Mining on Six Downstream Tribes, Oklahoma—Meredith Garvin, Tribal Environmental Management Services Fish Impacts, Mercury Winnebago Tribe—Denise Jensen | <u>Air</u> <ul style="list-style-type: none"> Climate Change and Adaptation—Robert Hall, U.S. EPA; David Gay, University of Illinois et al. | |
| Morning SCIENCE TRACKS | Mackinac Ballroom: | Tower Ballroom AB: | |
| 10:45 am – 12:00 pm | <u>Earth</u> <ul style="list-style-type: none"> Ecological Restoration and Conservation Activities of the Prairie Island Indian Community – Bradley Frazier, Prairie Island Indian Community, Minnesota Invasive Earthworm – Rebecca Knowles, Leech Lake Band of Ojibwe “Green” Indians!- Public Relations Tactics for Tribal Conservationism & Environmental Achievements – David Staddon, St. Regis Mohawk Tribe | <u>Healthy Communities</u> <ul style="list-style-type: none"> Examining Convergence of Traditional Knowledge and Western Science— Bree Murphy, University of California – Davis & Michael Opheim, Seldovia Village Tribe Developing Tribal Specific Environmental Public Health Indicators in the Coast Salish Region—Jamie Donatuto, Swinomish Tribal Indian Community | |
| 12:00 pm – 1:30 pm | | Lunch Plenary Session: Climate Change from an Adaptive Perspective (Sponsored Event) – Governors' CDEF • Lee Sprague, Little River Band of Odawa Indians | |
| Afternoon SCIENCE TRACKS | Mackinac Ballroom: | Tower Ballroom AB: | |
| 1:30 pm – 3:15 pm | <u>Water</u> <ul style="list-style-type: none"> Recent Uranium Mine Development and Effects, Grand Canyon— Robert Hart and John Hoffman, U.S. Geological Survey Evaluation of Supply of Groundwater Resources, Moenkopi, Hopi, Navajo— Robert Hart and John, Hoffman, U.S. Geological Survey Emerging Contaminants—Kim Winton, U.S. Geological Survey | <u>Air</u> <ul style="list-style-type: none"> Climate Change Adaptation Planning (Panel)— Stuart Oberg, Grand Portage Band of Chippewa, Debra Lekanof, Swinomish Indian Tribal Community, and Sue Wotkyns, Institute for Tribal Environmental Professionals --Moderator Characterization of Benzene and Other Air Toxics in Akwesasne—Angela Benedict-Dunn, St. Regis Mohawk Tribe Tribal Perspectives on Climate Change—Kathleen Sloan, Yurok Tribe | |
| Afternoon SCIENCE TRACKS | Mackinac Ballroom: | Tower Ballroom AB: | |
| 3:30 pm – 5:00 pm | <u>Earth</u> <ul style="list-style-type: none"> Tribal Pesticide Program (Panel)— Fred Corey, Aroostook Band of Micmacs and Tribal Pesticide Program Council Representatives Quicksilver, Pike, and People: Mercury, Native Rural Alaskan Fisheries Resources and Public Health—Nim Ha, Alaska Department of Health and Social Services | <u>Healthy Communities</u> <ul style="list-style-type: none"> Children's Health and Program Evaluation: Using Data to Make Program Decisions— Jennifer Falck, R.S, MPA, Oneida Tribe of Indians of Wisconsin Tribal-University Partnerships (Panel): Building Capacity of Tribal EPAs to Use state-of-the-art Molecular Detection Technologies to Protect the Environment and Human Health — Drs. Keith Pezzoli, Hiram Sarabia-Ramirez, and Marshall Cheung, University of California, San Diego and 29 Palms Band of Mission Indians Tribal EPA | |
| 5:00 pm – 5:30 pm | | <i>Break</i> | |
| 5:30 pm – 7:00 pm | | National Conversation Listening Session sponsored by Agency for Toxic Substances and Disease Registry/Center for Disease Control: Director's Room | |

| Day 3—WEDNESDAY, June 9, 2010 | | | | |
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| 8:00 am – 5:15 pm | | | | |
| 8:00 am – 9:00 am | PLENARY SESSION: EARTH : Governors' Ballroom CDEF <ul style="list-style-type: none"> Development of a Tribal Natural Resources Index: A Useful Tool to Quantify the Damages to Culturally Significant Natural Resources—Meredith Garvin, TEMS | | | |
| Morning SCIENCE TRACKS & Training | Mackinac Ballroom: | Tower Ballroom AB: | Peninsula: | Tower C: |
| 9:15 am – 10:45 am | <u>Water</u> <ul style="list-style-type: none"> Two-Phase Nature of Sediment Transport in Natural Channels—Charles Adams, Sault Ste. Marie Tribe of Chippewa Indians Development of Tribal NPS Pollution Risk Index—Meredith Garvin, et al., Tribal Environmental Management Services (TEMS) | <u>Air</u> <ul style="list-style-type: none"> Tribal Development of Air Regulatory Programs—Brenda Jarrell, Southern Ute Indian Tribe Toxic Release Inventory Data and Tools—Steve Witkin, Will Smith and John Scalera, U.S. EPA Scientifically Credible and Legally Defensible Data—Melinda Ronca-Battista and Christopher Lee, Tribal Air Monitoring Support Center | <u>Training#1:</u> Risk Perception (Dave Charters & Tony David) Community-Focused Exposure and Risk Screening Tool: C-FERST and its Potential for Tribal Use — Andrew Geller US EPA | <u>Training #2:</u> Water Quality Assessment (USGS) |
| Morning SCIENCE TRACKS & Training | Mackinac Ballroom: | Tower Ballroom AB: | | |
| 11:00 am – 12:30 pm | <u>Earth</u> <ul style="list-style-type: none"> Hazardous Substances and Contaminated Lands – Todd Barnell, Institute for Tribal Environmental Professionals Spectral Imagery for Pest Infestation Detection – John Glaser, U.S. EPA (NRMRL) | <u>Healthy Communities</u> <ul style="list-style-type: none"> Eco, Forests Renewables and AZ Rural Electrification (Panel) — John Persell, Leech Lake Band of Chippewa; Debby Tewa, Arizona Energy Office Alaska Native Wild Berry – Joshua Kellogg, Univ. of IL | | |
| 12:30 pm – 2:00 pm | <i>Lunch (On Your Own)</i> | | | |
| Afternoon SCIENCE TRACKS & Training | Mackinac Ballroom: | Tower Ballroom AB: | Peninsula: | Tower C: |
| 2:00 pm – 3:30 pm | <u>Water</u> <ul style="list-style-type: none"> Implementing the 2000 Consent Decree—Erik Olsen, Grand Traverse Band of Ottawa and Chippewa Indians Cumulative Assessment and Tribal Subsistence—Kathleen Sloan and Suzanne Fluharty, Yurok Tribe Environmental Program Assessment on the Bioaccumulation of Human Toxins in Fish from Fresh Surface Water Bodies of Salt River Pima-Maricopa Indian Community—Joe Herrera, Salt River Pima-Maricopa Indian Community | <u>Air</u> <ul style="list-style-type: none"> Fluoride Exposure—Angela Benedict-Dunn, St. Regis Mohawk Tribe Environment Division Climate impacts on Alaska's Kivalina Village—Millie Hawley, Maniilaq Association | <u>Training #1:</u> Risk Perception (Dave Charters & Tony David) Community-Focused Exposure and Risk Screening Tool: C-FERST and its Potential for Tribal Use — Andrew Geller US EPA | <u>Training #2:</u> Water Quality Assessment (USGS) |
| Afternoon SCIENCE TRACKS & Training | Mackinac Ballroom: | Tower Ballroom: | | |
| 3:45 pm – 5:15 pm | <u>Earth</u> <ul style="list-style-type: none"> Switchgrass: A Natural Component of Healthy Prairie Spaces – Dr. A. Hamblin, US Army Construction Engineering Research Lab Emergency Management Oil and Chemical Spill, Nick Nichols, U.S. EPA Incorporating Tribal Inputs to EPA's Review of Regulations for Uranium & Thorium Extract Facilities – Loren Setlow, U.S. EPA | <u>Healthy Communities</u> <ul style="list-style-type: none"> Mold, Indoor Air Community Health Risk—Curtis Munoz, Kiowa Tribe CBRA of Exposure to Contaminants—Crow Indian Reservation — Timothy Ford, University of New England; Marie Eggers, Montana State University; Crescentia Cummings, Little Big Horn College | | |
| 5:15 pm – 5:30 pm | <i>Break</i> | | | |
| 5:30 pm – 7:00 pm | Evening Movie Session: Governors' Ballroom CDEF: YRITW's Yukon Currents: Healing the River (Ice Cream Social) | | | |

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| 8:00 am - 5:00 pm | Day 4—THURSDAY, June 10, 2010 | |
| 8:00 am - 9:00 am | PLENARY SESSION: HEALTHY COMMUNITIES: Governors' Ballroom CDEF We Live By the Water — Jon Waterhouse, Yukon River Inter-Tribal Watershed Council | |
| Morning SCIENCE TRACKS | Mackinac Ballroom: | Tower AB: |
| 9:15 am - 10:30 am | <u>Water</u> <ul style="list-style-type: none"> Riparian Proper Functioning Condition Assessment for Creeks and Communities (Panel) —Robert Hall, U.S. EPA, Heidi Brow, Pala Band of Mission Indians, and Jacob Tybo, South Fork Band of the Ta-Moak Tribe | <u>Air</u> <ul style="list-style-type: none"> Overview of EPA's Global Climate Change Research Program — Janet Gamble, U.S. EPA (NCEA) Concept and Applications for a National Lidar Program - Greg Snyder, U.S. Geological Survey |
| Morning SCIENCE TRACKS | Mackinac Ballroom: | Tower AB: |
| 10:45 am - 12:00 pm | <u>Earth</u> <ul style="list-style-type: none"> Southwest Ecosystems Services Project (Panel) – Nita Tallent-Halsell, Robert Hall, U.S. EPA (NERL-Vegas) Understanding the Interaction of Global Change with Land Uses and Invasive Species on the Ecosystem – Claudia Walters, U.S. EPA (NCER) | <u>Healthy Communities</u> <ul style="list-style-type: none"> Mining Impacts on Community Health LeeJuan Tyler, Shoshone Bannock Tribes Brownfield Land Reuse Tool —Gary Perlman, U.S. EPA/ATSDR Region 1 |
| 12:00 pm - 1:30 pm | <i>Lunch (On Your Own)</i> | |
| Afternoon SCIENCE TRACKS | Mackinac Ballroom: | Tower AB: |
| 1:30 pm - 3:30 pm | <u>Water</u> <ul style="list-style-type: none"> Using Quantitative Risk Assessment Tools to Compare and Contrast Risks of Different Fish Species—Tony David, St. Regis Mohawk Tribe Rapid Detection/Enumeration of Fecal Pollution, Whitewater River using qPCR – Marshall Cheung, Ph.D., 29 Palms Band of Mission Indians Tribal EPA Establishing a "Safe" Fish Consumption Advisory on the Flathead Indian Reservation – Katie McDonald, Salish and Kootenai College Methyl Mercury Exposure in Tribal Populations from Fish Consumption: Probabilistic SHEDS-Dietary Model Analyses Using 1996-2006 NHANES and 1990-2003 TDS Data —Valerie Zartarian U.S. EPA | <u>Healthy Communities</u> <ul style="list-style-type: none"> Raising Awareness and Protecting Children from Environmental Health Exposures in Tribal Homes and Schools (including indoor air) <ol style="list-style-type: none"> Tribal Fish Consumption, Toxics and Tribal Children—Larry Dunn, Lower Elwha Klallam Tribe Elizabeth Kushman—Inter-Tribal Council of Michigan Maine Tribes Involved with the Wabananki Tribal Exposure Scenario DITCA |
| 3:30 pm - 4:00 pm | <i>Afternoon Break</i> | |
| 4:00 pm - 4:45 pm | Closing Ceremony: Governors' Ballroom CDEF: Closing remarks, prayer, and retire colors—TSC Co-Chairs, Host | |
| A I I D A Y | Travel Day—FRIDAY, June 11, 2010 | |