



**IWISE Workshop – Washington D.C.
Indigenous Worldviews in Informal Science Education:
Integration, Synthesis and Opportunity**

May 31 – June 1, 2016

Day 1

May 31, 2016 – Tuesday

Venue: National Museum of the American Indian

- 9:45a.m. Opening Welcome
Benjamin Norman - Pamunkey Tribe of Virginia
- 9:50a.m. Opening Workshop Remarks
NMAI Representative Welcome – José Barreiro Assistant Director of
Research History and Culture
- Introduction to IWISE - Co-PIs Nancy Maryboy & Ka'iu Kimura
- Holistic Learning – Informal Education - Isabel Hawkins, Organizing
Team Member
- 10:15a.m. Keynote Presentation: Robin Wall Kimmerer
Distinguished Teaching Professor and Director of the Center for
Native Peoples and the Environment, Professor of Environmental
Science and Forest Biology, State University of New York, Author of
Gathering Moss: A Natural and Cultural History of Mosses
*Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge, and
the Teachings of Plants*
- 11:15a.m. IWISE Strand Discussion Summaries
- Wholistic Education – Verlie Ann Malina-Wright
 - Environmental Sustainability – David Begay, Yvonne Vizina
 - Collaboration with Integrity – Laura Peticolas, Marcia de Chadenades
- 12:00p.m. Lunch – Mitsitam Café, NMAI (lunch on your own)

Suggested visit: "Qhapaq Ñan" or "The Great Inka Road: Engineering an Empire" exhibit at NMAI as an example of STEM embedded within a rich cultural context (ancestral and contemporary).

- 1:00p.m. IWISE Strand Discussion Summaries (con'd)
- Next Generation Youth – Kyle Swimmer, Isabel Hawkins
 - Cross-Cultural Evaluation – Jill Stein, Joe Heimlich
- 1:45p.m. Round Table Discussions - Strand Summary Questions & Answers
- 2:45p.m. Messages from the Canoe – Kalepa Baybayan – Captain and Navigator of the Hokule'a - The legendary Polynesian voyaging canoes Hōkūle'a and Hikianalia are sailing across Earth's oceans to join and grow the global movement toward a more sustainable world. Using traditional wayfinding navigation, the Mālama Honua Worldwide Voyage has been hailed as an international model for cultural revitalization and education. During the Hōkūle'a's port in Washington, D.C., captain and senior navigator Kālepa Baybayan will give us an update.
- 3:00p.m. Panel Discussion: Indigenous Youth Voices in Science Education
Panel Participants:
- Kyle Swimmer
 - Dominique David-Chavez
 - Angelo McHorse
 - Victor Corpuz
- Shelly Valdez, Native Pathways (moderator)
- 4:00p.m. Small Group Breakout Discussions
Driving Question: How can we build a reciprocal, balanced relationship across indigenous knowledge and western science?
- 4:45p.m. IWISE Albuquerque – Emergent Themes and Impacts through Evaluation
Jill Stein and Shelly Valdez
- 5:00p.m. Closing of Day

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Day 2

June 1, 2016 – Wednesday

Venue: National Museum of Natural History

9:00a.m. Opening Welcome – IWISE Team

NMNH Representative Welcome – Tim McCoy,
Mineral Sciences Chair, Miami Tribe

Shari Werb, Assistant Director for Education and Outreach

Gwyniera Isaac Curator of North American Ethnology

9:15a.m. Keynote Presentation: Eric Jolly
Connecting to Science Through Culture
President and CEO of Minnesota Philanthropy Partners, former
President of Minnesota Science Museum

10:30a.m. Panel Discussion: National Institutions Panel
Panel Participants:

- Bob Russell – Program Officer, Division on Research & Learning, National Science Foundation
- Dorothy Castille – Health Scientist Administrator, Division of Extramural Scientific Programs, National Institute on Minority Health and Health Disparities
- Mose Herne – Director, Division of Planning, Evaluation and Research, National Institution Review Board, Office of Public Health Support, Indian Health Service
- Heidi Schweingruber – Director, Board on Science Education, The National Academies of Sciences, Engineering and Medicine

Gwyniera Isaac – NMNH Smithsonian (moderator)

11:30a.m. *Setting the Research Agenda: Identifying Critical Questions for Future Action* – Laura Huerta Migus
Executive Director, Association of Children’s Museums

12:00p.m. Lunch (on your own)

1:00p.m. Keynote Presentation – Martin Storksdieck
STEM Learning is All Around Us! Opportunities and Challenges for Embedding Indigenous Perspectives Into Local STEM Learning Ecosystems

Director, Center for Research on Lifelong STEM Learning, Oregon State University (former Director, Board on Science Education, National Academy of Sciences)

- 2:00p.m. Panel Discussion: Native Community Initiatives
Panel Participants:
- Verlie Ann Malina-Wright, Chair Pacific American Foundation, Hawai'i, former President of National Indian Education Association
 - Shirley Williams, Lummi Nation, Community Medicine RN, President of Whiteswan Environmental
 - David Begay, University of New Mexico, Indigenous Education Institute, Navajo Birth Cohort Group, Native American Environmental Health Equity

Yvonne Vizina (moderator), PhD Candidate School of Environment and Sustainability, University of Saskatchewan

- 3:00p.m. Small Group Break-Out Discussions
Discussion Focus: *Advancing and Developing the Research Agenda*
Isabel Hawkins (facilitator)

- 4:30 pm Large Group: Recap of Research Discussions & Future Collaborations...
Where do we go from here?
Isabel Hawkins & Nancy Maryboy

- 5:00pm Workshop Closing
- Closing of IWISE
 - Closing Activities - Nancy C. Maryboy and IWISE team
Tim McCoy -NMNH Mineral Science Chair, Miami Tribe

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