

Tuesday, May 17 Morning Session

- 8:30 a.m. **WELCOMING REMARKS**
 NM WRRRI Director Sam Fernald
 Mayor Tommy Roberts, City of Farmington
- 8:45 **CONGRESSIONAL STATEMENTS**
 Senator Tom Udall
 Senator Martin Heinrich
 Congressman Ben R. Lujan
 State Representative Paul C. Bandy
- 9:05 *New Mexico's Response to the Gold King Mine Spill*
 Ryan Flynn, Trais Kliphuis, Dennis McQuillan, and Allison Majure, NM Environment Department
 Presentation to be given by Dennis McQuillan ([Abstract 5](#))
- 9:25 *Emergency Response*
 Kim Carpenter, San Juan County
- 9:45 *Geologic Setting and History of Mining in the Animas River Watershed, Southern Colorado*
 Virginia T. McLemore, NM Bureau of Geology and Mineral Resources ([Abstract 33](#))
- 10:00 *1989 – Memories from the Sunnyside Mine*
 Evelyn Bingham, AECOM ([Abstract 1](#))
- 10:20 **BREAK AND POSTER SESSION**
- 11:00 *Water Quality of the Upper Animas River, Before, During, and After the Gold King Mine Release*
 Robert Runkel, Katherine Walton-Day, and Daniel J. Cain, U.S. Geological Survey ([Abstract 15](#))
- 11:30 *The Gold King Spill – How Did We Get Here?*
 Peter Butler, Animas River Stakeholders Group ([Abstract 32](#))
- 12:00 **LUNCHEON**
'on behalf of water' – Diné art as an Act of Healing Navajo After the Gold King Mine Disaster
 Venaya Yazzie, Navajo/Hopi ([Abstract 36](#))

Tuesday, May 17 Afternoon Session

THE GENIE IS OUT OF THE BOTTLE – WHAT NOW?

- 1:30 p.m. *Everyone Wants a Walk Away: Long-Term Mine Closure in the Silverton Caldera*
 Briana Greer, President, Solid Solution Geosciences, LLC ([Abstract 6](#))
- 1:50 *Utah's Response to the Gold King Mine Release and Long-Term Monitoring and Assessment Plan*
 Erica Gaddis, Utah Department of Environmental Quality ([Abstract 29](#))
- 2:10 *Total and Dissolved Surface Water Metals – Post-Gold King Mine Spill Trends in the Animas and San Juan Rivers*
 Diane Agnew, Bruce Yurdin, and Dennis McQuillan, NMED ([Abstract 19](#))
- 2:30 *Clay Contributions to the Gold King Mine Spill*
 Antonio Lara, Emilio Rivera, Raul Rivera, Tiffany Fowler, and Jeremy Jones, NMSU ([Abstract 8](#))
- 2:50 *Rapid Assessment of Soil Metal Concentrations Along the Animas River, New Mexico*
 Kevin Lombard, April Ulery, and Brandon Francis, NMSU; David C. Weindorf, Bogdan Duda, and Carla Millares, Texas Tech University ([Abstract 9](#))
- 3:10 **BREAK**

- 3:30 *Geological Processes Affecting the Chemistry, Mineralogy, and Acid Potential on Particle Size Fractions: Examples from Waste Rock Piles in New Mexico, USA*
Virginia T. McLemore, NM Bureau of Geology and Mineral Resources (Abstract 12)
- 3:50 *Examination of Sediment Microbial Communities in the Animas River Watershed Following the Gold King Mine Spill*
Patrick McLee, Sumant Avasarala, Lucia Rodriguez-Freire, Jose Cerrato, and Andrew Schuler, UNM (Abstract 18)
- 4:10 *Before the River Turned Orange: Bacteria and Nutrient Pollution in the Animas and San Juan Rivers*
Melissa May, San Juan Soil & Water Conservation District (Abstract 28)
- 4:30 *Assessment of the Fish Community in the Animas River After the Gold King Mine Spill*
Jim N. White, Colorado Parks and Wildlife (Abstract 16)
- 4:50 p.m. **ADJOURN**

Wednesday, May 18 Morning Session

ARE YOU SURE IT'S SAFE?

- 8:30 a.m. *Hydrogeology and Ground Water Quality at the United Nuclear Corporation Uranium Mill, Church Rock, New Mexico*
E.C. Dixon, Tsali Associates (Abstract 2)
- 8:50 *Stories from the Field: Biomonitoring in San Juan County, NM – October 2015*
Alexander Coyle, NM Department of Health, Barbara Malczewska-Toth, Heidi Krapfl (Abstract 20)
- 9:10 *Summary of Various Environmental Characterization Efforts in the San Mateo Creek Area, Grants Mining District, New Mexico*
E.C. Dixon, Tsali Associates (Abstract 4)
- 9:30 *Animas River Environmental Contamination from the Durango Mill Site*
Norman R. Norvelle (Abstract 14)
- 9:50 *Animas River Groundwater Level Monitoring After the Gold King Mine Mine-Water Release of 2015*
Ethan Mamer, Stacy Timmons, and Cathryn Pokorny, NM Bureau of Geology and Mineral Resources at NM Tech (Abstract 11)
- 10:10 **BREAK**
- 10:30 *Investigation of Metal Persistence in Sediments of the Animas River Watershed After the Gold King Mine Spill*
Lucia Rodriguez-Freire, Sumant Avasarala, Abdul-Mehdi, Joseph Hoover, Kateryna Artyushkova, Eric Peterson, Laura Crossey, Adrian Brearley, and Jose M. Cerrato, UNM; Diane Agnew, NMED; Drew Latta, University of Iowa (Abstract 17)
- 10:50 *Initial Assessment of the Gold King Mine Spill: The Role of Sediment Transport and Groundwater-Surface Water Interactions*
Jesus Gomez-Velez, Daniel Cadol, and Andrew Luhmann, NM Tech (Abstract 7)
- 11:10 *Monitoring the Animas River Alluvial Aquifer Groundwater Chemistry After the Gold King Mine 2015 Mine-Water Release*
Stacy Timmons, Ethan Mamer, and Cathryn Pokorny, NM Bureau of Geology and Mineral Resources at NM Tech (Abstract 24)
- 11:30 *What Are the Effects of the Gold King Mine Spill on San Juan County, NM Agricultural Irrigation Ditches and Farms?*
Kevin A. Lombard, April Ulery, Barbara Hunter, and Sam Fullen, NMSU (Abstract 10)

11:50 *Turbidity as an Indicator of Heavy-Metal in the Animas and San Juan Rivers*
Dennis McQuillan and Diane Agnew, NMED; David Sypher and Paul Montoia, City of Farmington Public Works Department; Monica Peterson, CH2M Hill ([Abstract 21](#))

12:10 p.m. **LUNCHEON**

The Samarco Mine Tailings Dam Failure, November 2015: Effects and Observations
Katherine Walton-Day, Kate Campbell, Bradley Van Gosen, and Kris Verdin, USGS
Presentation to be given by Katherine Walton-Day ([Abstract 31](#))

Wednesday, May 18 Afternoon Session

AND WHAT'S THE PLAN TO FIX THIS MESS?

1:30 p.m. *Hydrogeology and Ground Water Quality in the Vicinity of the Bluewater Disposal Site, Grants Mining District, New Mexico*
E.C. Dixon, Tsali Associates ([Abstract 3](#))

1:50 *Ion Imprinted Polymers for Remediation by Selective Sequestration and Sensing of Hazardous Metal Ions*
George M. Murray and Thomas E. Ward, TechSource Inc. ([Abstract 22](#))

2:10 *Solar and Ocean Based Hydrologic Forecasts for the Animas River Leading to the End of 2022*
Michael Wallace, Michael Wallace and Associates ([Abstract 25](#))

2:30 *Remediation of the Terrero Mine and El Molino Mill, San Miguel County, New Mexico*
Dennis McQuillan, NMED; Virginia McLemore, NM Bureau of Geology and Mineral Resources;
Paul Robinson, Southwest Research and Information Center ([Abstract 13](#))

3:00 *Tó'ítso, the Water is Yellow: Investigating Short Term Exposure and Risk Perception of Navajo Communities to the Gold King Mine Spill*
Karletta Chief, Paloma Beamer, Nathan Lothrop, Nicolette Teufel-Shone, University of Arizona;
Jani Ingram and Manley Begay, Northern Arizona University; Rebecca Clausen, Fort Lewis College;
Janene Yazzie, To' Bee Nihi Dził; Mae-Gilene Begay, Navajo CHR ([Abstract 38](#))

3:20 **BREAK**

3:35 **PANEL: WHERE DO WE GO FROM HERE?**
Moderated by Virginia T. McLemore, NM Bureau of Geology and Mineral Resources

Steve Austin, Navajo Nation EPA
Kim Carpenter, San Juan County
Karletta Chief, Department of Soil, Water and Environmental Science, University of Arizona
Rich Dembowski, Gold King Mine Citizens' Advisory Committee
Bonnie Hopkins-Byers, New Mexico State University, San Juan County
Dennis McQuillan, New Mexico Environment Department

5:00 p.m. **ADJOURN**

Conference Planning Committee

Diane Agnew, NM Environment Department
Laura Crossey, University of New Mexico
Sam Fernald, NM WRRRI
Fernando Herrera, NM WRRRI
Jesus Gomez-Velez, NM Tech
Trais Kliphuis, NM Environment Department
Kevin Lombard, New Mexico State University, Farmington
Melissa May, San Juan Soil & Water Conservation Dist.
Virginia McLemore, NM Bureau of Geology and Mineral Resources
Dennis McQuillan, NM Environment Department

Paul Montoia, City of Farmington
Catherine Ortega Klett, NM WRRRI
Jesslyn Ratliff, NM WRRRI
Blane Sanchez, NM WRRRI
Jamie Shockey, San Juan Generating Station, PNM
Andy Shuler, University of New Mexico
Stacy Timmons, NM Bureau of Geology and Mineral Resources at NM Tech
Butch Tongate, NM Environment Department
Thomas Turner, University of New Mexico