

Program

Where Does All the Water Go?

History, Hydrology & Management of New Mexico's Scarce Waters

Global Resource Center Auditorium
Western New Mexico University, Silver City
October 6-7, 2016

Thursday, October 6

8:15 am **WELCOME**
Sam Fernald, Director, NM Water Resources Research Institute
Ken Ladner, Silver City Mayor

SESSION I

8:30 *Where Does All the Water Go in New Mexico?*
Jeffrey J. Wechsler, Montgomery and Andrews Law Firm

9:00 *Solving the Colorado River's Problems*
John Fleck, University of New Mexico, Water Resources Program

9:30 *Future Direction of Federal Water Policy*
Jeff Riley, Bureau of Reclamation, Phoenix Area Office

9:45 *Vegetation Management and Water Yield: Silver Bullet or a Pipe Dream?*
Lee MacDonald, Colorado State University

10:00 **BREAK**

10:30 *Preserving Western Agricultural Water Use Against New Demands*
Dan Keppen, Family Farm Alliance

11:00 *Elements of Resilient Water Policy*
Marilyn O'Leary, Former Director, Utton Transboundary Resources Center

11:30 *Monitoring Long-Term Relationships Among Surface Flow, Groundwater,
and Vegetation on the Gila River*
Martha Cooper, The Nature Conservancy
Ellen Soles, Southern Colorado Plateau Network of the National Park Service

12:00 pm **LUNCHEON, Murray Hotel**
Rethinking Western Water Management
2016 Albert E. Utton Memorial Water Lecture
Jeff Bingaman, Former United States New Mexico Senator

SESSION II

- 2:00** *The Changing Gila River: Past, Present, and Future*
David Gutzler, University of New Mexico
- 2:20** *Groundwater/Surface Water Connections*
Sam Fernald, Director, NM Water Resources Research Institute
- 2:35** *Riparian Management Effects on Flow Along the Canadian River*
Jasper Brusuelas, New Mexico State University, master's degree student
- 2:50** *Using Chloride Mass Balance to Quantify Groundwater Recharge in the Mountains of New Mexico*
David Ketchum, NM Tech, master's degree student
and NM WRRRI Student Water Research Grant recipient
- 3:05** **BREAK**
- 3:20** *Managing Drought Risks Through Water Banks: Who Pays and Who Benefits?*
Bonnie Colby, University of Arizona
- 4:00** Panel Discussion: *Can Vegetation Management Increase Water Yield from Forest and Rangeland Watersheds?* Moderated by **Lee MacDonald**, CSU

Dagmar Llewellyn, Bureau of Reclamation, *Changing Snowmelt Runoff*
Amy Lewis, Hydrologist, *Santa Fe Paired Basin Study*
Kent Reid, NM Highlands University, *Collaborative Forest Management Projects in NM*
Alex Thal, Southwest Center for Resource Analysis, *Gila/San Francisco Watershed Restoration Project - Lessons Learned*
Ralph Pope, *Southwest Native Ecosystems Management*
- 5:00** Results and Prizes: Water Trading Exercise
Bonnie Colby, University of Arizona
- 5:10** **ADJOURN**
- 6:00 - 7:30** **OUTDOOR DINNER BUFFET, Old James Stadium**
Western New Mexico University

Friday, October 7

SESSION III

- 8:30 am** *The Geology of the Silver City Area*
Mary Dowse, Western New Mexico University Geologist
- 9:00** *The Science Behind Measuring Depletions*
Salim Bawazir, New Mexico State University
- 9:30** **POSTER SESSION AND BREAK**
- 11:00** *USGS Water Availability and Use Science Program*
Melinda Dalton, U.S. Geological Survey
- 11:30** *New Mexico Water Update*
Tom Blaine, New Mexico State Engineer
Greg Ridgley, Office of the State Engineer
- 12:00 pm** **ADJOURN**