

36TH ANNUAL NEW MEXICO WATER CONFERENCE

Agencies and Science Working for the Future

New Mexico State University
Las Cruces, New Mexico

THURSDAY, NOVEMBER 7, 1991

Session I: Forested Watersheds

- Moderator: **Tom Bahr, Water Resources Research Institute**
- 9:20 a.m. **Water Resources: Global Impacts on Local Management**
Gerald Thomas, President Emeritus, New Mexico State University
- 9:55 a.m. **University Technology Transfer**
Averett Tombes, New Mexico State University
- 10:15 a.m. **A Research Half-Life: Twenty Years of Studies on Watershed Processes**
Tim Ward, New Mexico State University
- 10:35 a.m. **Break**
- 11:05 a.m. **A Historical Look at Watershed Improvement on the National Forests in New Mexico**
Douglas Shaw, U.S. Forest Service
- 11:25 a.m. **Hydrologic Responses to Fuelwood Harvest and Slash Disposal on a Pinyon-Juniper Dominated Grassland Site in the Gila National Forest**
M. Karl Wood, New Mexico State University
- 11:45 a.m. **Hydrologic Processes in the Pinyon-Juniper Vegetation Zone of Arizona and New Mexico**
Susan Bolton, New Mexico State University
- 12:15 p.m. **Lunch**

Session II: Current Issues and University Research

Moderator:	Bobby Creel, Water Resources Research Institute
1:30 p.m.	Current Issues in New Mexico Water Resources Eluid Martinez, New Mexico State Engineer Office
1:50 p.m.	Training Needs of the New Mexico Environment Department Kathleen Sisneros
2:10 p.m.	Assessment of In Situ Bioremediation of Cyanide and Nitrate at a Heap Leach Mining Operation in New Mexico James Markwiese, University of New Mexico
2:30 p.m.	Sorption of Organics to Surface-Altered Zeolites Daphne Neel, New Mexico Tech
2:50 p.m.	Enhancement of Solar Photocatalytic Detoxification by Adsorption of Porphyrins onto TiO ₂ Sabir Majumder, University of New Mexico
3:10 p.m.	Break

Session III: Sediment and Water Quality

Moderator	Bobby Creel, New Mexico State University
3:30 p.m.	Soil Loss — Key to Understanding Site Productivity Malchus Baker, Rocky Mountain Forest and Range Experiment Station
3:50 p.m.	Decreasing Trends of Suspended Sediment Loads in Selected Streamflow Stations in New Mexico Allen Gellis, U.S. Geological Survey
4:10 p.m.	Water Quality in the Rio Costilla Watershed: Multiple Agencies, Multiplying Problems David Coss, New Mexico Environment Department
4:30 p.m.	Sewage Sludge Application in Semiarid Grasslands: Effects on Runoff and Surface Water Quality Richard Aguilar, Rocky Mountain Forest and Range Experiment Station
4:50 p.m.	Sedimentation Effects of Water Quality at Elephant Butte Reservoir Lorenzo Arriaga, Rio Grande Compact Commission

FRIDAY, NOVEMBER 8, 1991

Session IV: Wildlife and Riparian Habitat

- Moderator: **Tim Ward, New Mexico State University**
- 8:30 a.m. **The Rio Grande Initiatives — A Demonstration of Interagency Collaboration in Water Management**
Richard Kreiner, U.S. Army Corps of Engineers
Garry Rowe, U.S. Bureau of Reclamation
- 8:50 a.m. **Fire and Gila Trout Recovery in Wilderness Watersheds**
Bruce Anderson, U.S. Forest Service
- 9:10 a.m. **Hydrologic Considerations Related to Inventory and Evaluation of Wildlife Water Units at White Sands Missile Range**
Darren Divine, New Mexico State University
- 9:30 a.m. **Riparian Structures and Watershed Treatments in the Southwest: History, Status, and Management Implications — A Preliminary Report**
Russell Lafayette, U.S. Forest Service
- 9:50 a.m. **Break**
- 10:20 a.m. **Panel Discussion — Research and Training Needs of Agencies**
- Panel Members:**
Jim Piatt, New Mexico Environment Department
Gary Eyster, U.S. Army Corps of Engineers
Kirk Koch, U.S. Bureau of Land Management
Jeanine Derby, U.S. Forest Service
Charles Calhoun, U.S. Bureau of Reclamation
Wain Evans, New Mexico Department of Game and Fish
Ray Margo, U.S. Soil Conservation Service
Donald Lopez, New Mexico State Engineer Office