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## PROGRAM

### Wednesday, November 7

7:00pm - Pre-Conference Reception: "Remains of a River" film from the Colorado College "State of the Rockies" project

### Thursday, November 8

7:30 – Registration and Breakfast

8:00 – Welcome - *Tim Foster, President, Colorado Mesa University, and Gigi Richard, Director, Water Center at Colorado Mesa University*

8:10 - Introductory Remarks -*John Stulp, Special Policy Advisor the Governor on Water*

8:30 – Responding to water scarcity: the big picture

- Drought as Disaster: The challenges of mobilizing political response to drought  
*Tim Casey, Professor of Political Science, Colorado Mesa University*
- Whose River? Cultural foundations of the Law of the River  
*Jeff Sellen, Assistant Professor, Environmental Studies, Western State Colorado University*

9:00 – Dust from the Desert, Beetles in the Headwaters: Regional Environmental Influences on Upper Colorado Basin Hydrology

*Moderator: David Graf, Regional Water Specialist, Colorado Parks and Wildlife*

- Dust in the western US: How biological, physical and human activities at the local scale interact to affect hydrologic function at the landscape scale  
*Jayne Belnap, Research Ecologist, United States Geological Survey, Moab*
- Snow system interannual variability case study – WY 2011 and WY 2012  
*Chris Landry, Center for Snow and Avalanche Studies, Colorado Dust-on-Snow Program*
- A Conceptual Model of Water-Related Impacts from Bark Beetle Infestations  
*Eric Gordon, Managing Director, Western Water Assessment, Cooperative Institute for Research in Environmental Sciences, University of Colorado - Boulder*
- Hydrologic Impacts of the Mountain Pine Beetle on Tributary Catchments of the Upper Colorado River Basin  
*Ben Livneh, Western Water Assessment, NOAA Earth Systems Research Laboratory, University of Colorado - Boulder*

10:00 – Break

**Thursday, November 8, continued:**

10:15 – Meeting Environmental Water Needs in Cooperation with Other Uses

*Moderator: author George Sibley*

- Overview of the Colorado Water Trust's Request for Water 2012  
*Amy Beatie, Executive Director, Colorado Water Trust*
- Developing a Water Conservation Campaign that Benefits Streamflows in the Roaring Fork Watershed  
*George Moss Driscoll, Esq., for the Roaring Fork Conservancy*
- Dolores River - A Way Forward: Development of the 'Implementation, Monitoring and Evaluation Plan' for Warm Water Native Fish in the Lower Dolores River  
*David Graf, Regional Water Specialist, Colorado Parks and Wildlife*

11:00 - Colorado Basin Agriculture Being Creative with its Water

*Moderator: Denis Reich, Water Resources Specialist, Colorado Water Institute*

- Western Slope Water Bank  
*Taylor Hawes, Colorado River Program Director, The Nature Conservancy*
- Lessons from the Lower Basin: Colorado River Delta Water Trust  
*Jennifer Pitt, Director, Colorado River Project, Environmental Defense Fund*
- Interviews with Colorado River Basin Agricultural Water Stakeholders  
*Peter Taylor, Associate Professor of Sociology, Colorado State University*
- Keeping my farm green for the next 30 years  
*Paul Kehmeier, Irrigator & Farmer in Eckert, CO.*

12:00 – Lunch, pop-up presentations by non-presenters, posters

1:30 – Understanding and Managing Water Availability and Streamflows

*Moderator: Russell Walker, Professor of Environmental Restoration, Colorado Mesa University*

- CI-WATER High Performance Computing Model to Investigate Future Water Resources Availability in the Upper Colorado River Basin  
*Fred Ogden, Professor Cline Distinguished Chair of Engineering, Environment and Natural Resources, Department of Civil & Architectural Engineering and Haub School of Environment and Natural Resources, University of Wyoming*
- Using water infrastructure to manage streamflow under climate change in the upper Green River basin  
*Ryan McShane, Ph. D. student in Ecology, Colorado State University*
- How seasonal and inter-annual variation in river flow impact shallow groundwater fluctuation and riparian vegetation health on the impounded Dolores River, southwest Colorado  
*Gary L. Gianniny, Professor of Geosciences, Fort Lewis College*

2:15 – Strategies for engaging the public and specific constituencies on regional water issues

- Grassroots & Grasstops water education: Helping Coloradans Speak Fluent Water and Cultivating a Network of Water Leaders  
*Kristin Maharg, Program Manager, Colorado Foundation for Water Education*
- Down the Colorado Expedition/ Interactive Website  
*Zak Podmore, Colorado College State of the Rockies Project*
- Protecting Rivers and Sustaining Rural Communities in the Colorado River Basin  
*Richard Van Gytenbeek Colorado River Basin Outreach Coordinator, Trout Unlimited*

3:00 – Break

**Thursday, November 8, continued:**

3:15 - Nuts & Bolts of Municipal Conservation: Promising Strategies

*Moderator: Greg Trainor, Director, Public Works and Utilities, City of Grand Junction*

- Measuring the Impact of a Municipal Landscape Water Conservation Program, Front Range, Colorado  
*Dan Stellar, Water Division Director, Center for ReSource Conservation, Boulder, CO*
- Graywater Reuse as a Viable Means to Municipal Water Demands under Water Shortages – *Sybil Sharvelle, Assistant Professor, Department of Civil and Environmental Engineering, Colorado State University*

4:00 - Municipal Water Use – How Far Can/ Should we go with Conservation to Meet Future Needs?

*Moderator: Larry Clever, Manager, Ute Water Conservancy District*

- Smart Water Project  
*Drew Beckwith, Water Policy Manager, Western Resource Advocates*
- Conserving our way to a sustainable future  
*Ken Ransford, Colorado Basin Roundtable member*
- Conservation approach of Colorado's Metro Roundtable  
*Greg Fisher, Chief Planner, Denver Water*

5:15 – Closing remarks, adjourn to reception with appetizers & cash bar

**7:00- Keynote Dinner: John Stulp, Special Policy Advisor the Governor on Water**

**Friday, November 9**

7:30 – Breakfast, welcome

8:00 - Colorado River Basin Study: Analysis and Conclusions

*Moderator: Gigi Richard, Associate Prof. of Geology, Director of the Water Center, Colorado Mesa University*

- Carly Jerla, Water Resource Engineer, US Bureau of Reclamation
- Kay Brothers, Consultant, Southern Nevada Water Authority
- Ted Kowalski, Chief of the Interstate & Federal Section, Colorado Water Conservation Board

9:30 – Break

9:45 - Colorado River Basin Study: Responses and Interpretations

*Moderator: Hannah Holm, Coordinator, Water Center at Colorado Mesa University*

- Taylor Hawes, Colorado River Program Director, The Nature Conservancy
- Marc Waage, Manager of Water Resources Planning, Denver Water
- Kevin McBride, Manager, Upper Yampa Conservancy District
- Dave Kanzer, Senior Water Resources Engineer, Colorado River Water Conservation District
- Philip Lopez, Esq. White & Jankowski, LLP
- Jared Hansen, Project Manager, Central Utah Water Conservancy District
- Carroll Multz, Professor of Law and Ethics, Colorado Mesa University, and former US Commissioner and Chairman, Upper Colorado River Commission

11:30 – 1:00 – Lunch, posters, pop-ups

**Friday November 9, continued:**

1:00 –State approaches to meeting future needs in the context of uncertain hydrology and obligations under the Colorado River Basin Compact and the Upper Colorado River Basin Compact

*Moderator: Chris Treese, Manager of External Affairs, Colorado River District*

- Jennifer Gimbel, Director, Colorado Water Conservation Board
- Dennis Strong, Director, Utah Division of Water Resources
- Estevan Lopez, Director, New Mexico Interstate Stream Commission

2:30 – Closing remarks: highlight themes and research ideas that have emerged over the course of the conference

**Posters and Exhibits**

- Colorado River Basin National Drought Information System Drought Early Warning System  
*Nolan Doesken, Colorado State Climatologist*
- Middle Colorado Watershed Partnership  
*Laurie Rink, Coordinator*
- NHDPlus Natural Stream Flow Estimates for Colorado  
*Ariel Doumbouya, National Hydrography Dataset, U.S. Geological Survey*
- Linking Hydrography Data: Using the National Hydrography Dataset and the Hydrography Event Management Tools  
*Ariel Doumbouya, National Hydrography Dataset, U.S. Geological Survey*
- Colorado Foundation for Water Education
- Colorado River District
- Colorado Water Conservation Board
- Drought Response Information Project (Grand Valley domestic water providers)
- Tamarisk Coalition
- Western Water & Land, Inc.