

PEOPLE

Reclamation Names New Manager for ABQ Office

The U.S. Bureau of Reclamation recently named Connie L. Rupp as the new manager of its Albuquerque area office. She will be responsible for the bureau's programs in the Rio Grande, Pecos River, and Canadian River basins and will supervise six field offices in portions of Colorado, New Mexico, and West Texas. The bureau's projects also serve 19 Native American pueblos and three tribes.

Rupp was previously the assistant regional director of the Upper Colorado Region, based in Salt Lake City. In announcing her appointment, Regional Director Rick Gold said, "Connie Rupp has been heavily involved in sensitive New Mexico issues concerning the Rio Grande and Pecos basins, including the various lawsuits, water rights, and endangered species issues."

Rupp will succeed current Area Manager Jack Garner at the end of the year.

Visit www.usbr.gov/uc/albuq/.

Arizona State Geologist Retires

Summarized from *Arizona Geology*, v.35 no.2, Summer 2005

Larry D. Fellows, director of the Arizona Geological Survey (AZGS), retired at the end of June after 26 years as the state geologist. Fellows became Arizona's first, and so far only, official state geologist in 1979 when he joined the newly formed Arizona Bureau of Geology and Mineral Technology. Fellows was the assistant director of the geological survey branch of that entity, a position that was defined to also carry the title of "state geologist."

In 1988, the Arizona legislature passed a bill transforming the geological survey branch into the Arizona Geological Survey, a separate state agency.

During Fellows' tenure, AZGS was heavily involved in the U.S. Geological Survey's Cooperative Geologic Mapping Program and the National Geologic Mapping Act,

producing hundreds of geologic maps and reports on Arizona geology. Now, through a cooperative agreement with the USGS in 1992, AZGS serves as a clearinghouse for publications on Arizona geology.

Jon Spencer, a senior geologist at the agency, is the acting director until a new one is appointed.

Visit www.azgs.az.gov.

Hawley Honored with NM Earth Science Award

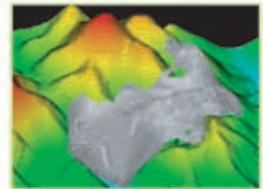
Excerpted from the *NMWRI Divining Rod*, June 2005

John W. Hawley was one of two recipients earlier this year of the second New Mexico Earth Science Achievement Award, cosponsored by the New Mexico Bureau of Geology and Mineral Resources and the State Energy, Minerals, and Natural

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Resources Department. The award is presented to individuals who have made outstanding contributions to advancing or facilitating the role of geoscience in the areas of education, research, public service, and public policy in New Mexico.

John Hawley is well known in the New Mexico water community, having worked for decades in the state, including 20 years at New Mexico Tech, where he is now emeritus senior environmental geologist. The award recognized his technical expertise in New Mexico geology and hydrogeology and his professional and scientific integrity and contributions to public service and policy.

The other recipient of the Earth Science Achievement Award was New Mexico State Senator Carlos R. Cisneros.

Visit wrrri.nmsu.edu.

National Water Research Institute Mourns Director

In August, the National Water Research Institute of Fountain Valley, California announced the death of Ronald B. Linsky, who served as executive director of the institute for its entire 15-year existence.

Through his work at the institute, Linsky promoted the importance of a reliable water supply for all. He was known for his cutting-edge ideologies that promoted technological advances to ensure the integration of water reuse, desalination, and conservation into long-term strategies to enhance sustainability of water resources for future generations.

The National Water Research Institute was founded in 1991 by a group of Southern California water agencies in partnership with the Joan Irvine Smith and Athalie R. Clark Foundation to promote the protection, maintenance, and restoration of water supplies and to protect the freshwater and marine environments through the development of cooperative research.

Visit www.nwri-usa.org.

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two potential discharge locations: near Boulder Island (Boulder Basin) and near Sand Island (Las Vegas Bay).

Five gallons of rhodamine WT fluorescent dye were released during each test. Substantial effort went into injecting it so as to create distinct plumes that remained at target depth in a patch of sufficient breadth and thickness to measure and track remotely.

To meet the needs of model validation, each plume was tracked for approximately 30 hours following release, during which time near-synoptic data sets were collected. A towed, remote-operated vehicle was used to measure the dye concentration using in-situ fluorometers and to map the plumes by moving through the water column along horizontal and vertical transects while recording depth, water quality parameters, and dye concentration.

Color aerial photographs also documented the trajectory and dispersion of the surface dye plumes. The first overflight took place immediately after tracer release, followed by flights two, five, and nine hours after release. The surface plumes were typically visible only the first day after release due to dilution and dispersion.

Results validated the computer modeling

analysis and revealed the important role that lake structure plays in the fate and transport of a plume. In late summer, when the thermocline was well defined, the surface plume stayed on the surface and the subsurface plume remained trapped within the thermocline, moving horizontally with ambient currents. During the fall, vertical mixing was the dominant factor in dispersing the plumes. Cooler air temperatures, particularly at night, cause surface waters to sink, driving down the depth of the thermocline and producing a relatively uniform and unstable density structure above it. The surface plume remained intact near the surface during the day and sank and dispersed vertically during the night. Shortly after release, the subsurface plume spread vertically both above and below the release depth, eventually dispersing throughout the water column above the thermocline after about 20 hours.

The modeling predictions indicate a significant decrease in algae growth with the proposed pipeline. The modeled predictions as validated by the tracer study are part of the work supporting Boulder Islands as the preferred outfall location in the Environmental Impact Statement (EIS), scheduled to be completed by mid-2006.

Contact Rys McDonald at rmcdonald@brwncaled.com or visit www.cleanwatercoalition.com.



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