

Table of Contents

| | |
|--|-----|
| Conference Program | 6 |
| Tom Bahr Receives Founder's Award of Excellence | 8 |
| Welcoming Remarks - Mayor Rubén A. Smith | 9 |
| Keynote Address: Transfer of Reclamation Project Water from Historic Irrigation to New M&I Uses - Bureau of Reclamation Commissioner Eluid Martinez | 11 |
| The Rio Grande Compact: Law of the River - Chuck DuMars, Thomas C. Turney, Hal D. Simpson and Jack Hammond | 14 |
| Regional Water Planning Update - Richard Cheney and Mary Helen Follingstad | 22 |
| The Evolution of the Rio Grande - Neal W. Ackerly | 26 |
| New Mexico/Texas Water Commission: Update on Commission Activities - Ed Archuleta | 33 |
| Luncheon Addresses | |
| U.S. Congressman Joseph Skeen | 35 |
| Lieutenant Governor Walter D. Bradley | 37 |
| Basin Guidelines and Hydrographic Survey of the Lower Rio Grande - Calvin Chavez and Max Chavez | 41 |
| Groundwater Modeling in the Lower Rio Grande - W. Peter Balleau | 46 |
| U.S. Geological Survey Seepage Investigations of the Lower Rio Grande in the Mesilla Valley - Edward Nickerson | 59 |
| The Removal of Arsenic Compounds from Natural Water Sources - Robert Wingo | 69 |
| Effects of Fire on the Spatial and Temporal Distribution of Mercury in Sediments of an Arid-Lands Reservoir in South-central New Mexico - Colleen A. Caldwell | 78 |
| Aquifer Sensitivity Assessment for the Mesilla Valley - John F. Kennedy | 84 |
| Concentration of Viral Particles from Water by Ultrafiltration - Kevin H. Oshima | 105 |
| An Assay for Toxic Chemicals Using Microorganisms - James Botsford | 111 |
| National Water Resources Association Update - Wayne Cunningham | 112 |
| New Mexico First's Recommendations and the State Engineer-ISC Legislative Agenda for 1999 - John Shomaker | 115 |
| Water Quality on the Lower Rio Grande - James Davis, Rodger Ferreira and Mark Jordan | 117 |
| Conversion of Water from Agriculture to Municipal Use: How to do it - John Utton, Edmund G. Archuleta, Gary Arnold and Len Stokes | 132 |
| New Mexico Water Conference Advisory Committee | 142 |
| Water Conference Participant List | 143 |
| Speaker Biographies | 152 |