



Environmental & Engineering Geoscience



Volume V, Number 1, Spring 1999

Table of Contents

- 1 **1998 AEG Honorary Member: Richard W. Galster**
- 3 **1998 AEG Honorary Member: Norman R. Tilford**
- 7 **1998 AEG Student Professional Paper: Graduate Division: Engineering and Geochemical Evaluation of the Middle Devonian Millboro Shale, Highland County, Virginia**
Martin J. Woodard
- 21 **Outstanding Student Research Grant Proposals of the Geological Society of America**

Environmental Geology and Hydrogeology of Intermontane Basins of the Southwest

- 25 **Preface**
- 27 **Hydrogeologic and Water Quality Issues Along the El Paso/Juarez Corridor: An International Case Study**
Barry J. Hibbs
- 41 **Response of the Rio Grande and Shallow Ground Water in the Mesilla Bolson to Irrigation, Climate Stress, and Pumping**
John Walton, Gregory Ohlmacher, Dennis Utz, and Murtaza Kutianawala
- 51 **On the Rio Grande Aquifer: Flow Relationships, Salinization, and Environmental Problems From El Paso to Fort Quitman, Texas**
Barry J. Hibbs and Radu Boghici
- 61 **Structural Domains and Their Potential Impact on Recharge to Intermontane-Basin Aquifers**
Gregory C. Ohlmacher
- 73 **An Integrated Gravity and Remote Sensing Assessment of Ground-Water Resources in Central Chihuahua, Mexico**
J. Alfredo Rodríguez, Nicholas E. Pingitore, Jr., G. Randy Keller, and Adriana Pérez
- 87 **Free-Phase NAPL-Trapping Features in Intermontane Basins**
D. W. Love, T. M. Whitworth, J. M. Davis, and W. R. Seager
- 103 **Hydrogeothermal Studies in New Mexico and Implications for Ground-Water Resources**
Marshall Reiter
- 117 **Effects of Valley Incision on the Subsurface State of Stress—Theory and Application to the Rio Grande Valley Near Albuquerque, New Mexico**
William C. Haneberg