

Engineering in Practice: Water Resource Management and Planning Modeling

Abby Watson is a water resource engineer with Denver Water. She will be discussing practical applications in water management and planning modeling from both her previous work experience in consulting and present work at Denver Water. She will also provide an overview of the Denver Water collection system and discuss Denver Water's water allocation model - the Platte and Colorado Simulation Model (PACSM). PACSM is a network-based model that simulates stream flows, reservoir operations, and water supply in the South Platte and Colorado River basins. This talk will highlight how PACSM analyses support overall long-range planning goals at Denver Water and how multi-objective optimization has been employed for calibrating model parameters.