

EDUCATION

- ◆ California Polytechnic State University, San Luis Obispo
BS in BioResource and Agricultural Engineering, 2002

PROFESSIONAL LICENSES AND SOCIETIES

- ◆ Registered Civil Engineer in California, 67808
- ◆ Member, American Society of Civil Engineers
- ◆ Member, United States Committee on Irrigation and Drainage



EXPERIENCE

04/02-Present MBK Engineers, Sacramento, CA

01/12-Present Principal

04/02-01/12 Assistant Engineer – Supervising Engineer

Water Rights: Perform extensive research and analysis relative to post-1914 appropriative water rights, pre-1914 and riparian claims/rights, and contracts. Gather factual data for consideration in water right disputes, hearings before the California State Water Resources Control Board, and legal proceedings. Prepare water right applications, water availability analysis, water right reports, and petitions for change. Evaluate projects during permit term to proceed to license. Coordinate with regulatory agencies to facilitate effective and efficient project completion.

Water Supply and Management: Analyze complex water distribution systems to determine quantities from diverse supplies. Obtain regulatory approval and provide engineering expertise for major through-Delta water transfers, including water transfers within basins, involving surface water made available by groundwater substitution, reservoir release, crop shifting, crop idling, and water conservation. Develop water management plans for major water agencies in the Sacramento Valley and the Klamath Basin. Prepare engineer reports to comply with Proposition 218 and regulations associated with the formation of mutual water companies. Examine grant funding potential for projects and submit applications.

06/00 – 04/02 Cal Poly Irrigation Training and Research Center (ITRC), San Luis Obispo, CA

Student Engineer

Researched, evaluated, and published findings on new technologies in engineering for water agencies. Administer \$6.5 million grant program for peak electrical load reductions in California agriculture funded by Senate Bill 5x and managed by the California Energy Commission. Reviewed engineering projects for water agencies throughout California for the peak load reduction program.

ENGINEERING PUBLICATIONS

- ◆ “Electrical Load Shifting in Irrigation Districts – California’s Program” (C.M. Burt, R. Amón, D.B. Cordova), 2002
- ◆ “Adjustable Magnetic Coupler” (C.M. Burt, D.B. Cordova), 2001
- ◆ “Flap Gate” (C.M. Burt, D.B. Cordova), 2001
- ◆ “Open Channel Doppler Flow Meter” (S.W. Styles, D.B. Cordova), 2001
- ◆ “Benchmarking of Flexibility and Needs 2000: Survey of Irrigation Districts, USBR Mid Pacific Region” (C.M. Burt, A.J. Mutziger, D.B. Cordova), 2000

CONTINUING EDUCATION SEMINARS AND WORKSHOPS

- ◆ California Water Law Seminar, CLE International, 2007-2008
- ◆ Basic Principles and Developments in Flow Measurement, A Water Resources Technical Workshop, U.S. Bureau of Reclamation Water Resources Lab, 2006
- ◆ Civil Engineering Courses in Water Resources, CSU Sacramento, 2005
- ◆ Flow Measurement and Canal Operation Short Course, Cal Poly ITRC and Chico ATRC, 2005
- ◆ Irrigation Scheduling, Salinity, and Drainage Short Course, Cal Poly ITRC, 2003
- ◆ Flood Fight Methods, California Department of Water Resources, 2003