

## EDUCATION

- ◆ US Army Corps of Engineers Planning Associates Program, Ft. Belvoir, Virginia  
Specific studies in the formulation, evaluation and selection of water resource alternatives, 1984
- ◆ University of Texas at Arlington, Arlington, Texas  
MS in Civil Engineering, 1979  
with emphasis in Water Resources
- ◆ Texas A&M University, College Station, Texas  
BS in Civil Engineering, 1972



## PROFESSIONAL LICENSES and SOCIETIES

- ◆ Registered Civil Engineer in Oregon, 16601

## EXPERIENCE

- 2005 to present MBK Engineers, Sacramento, CA  
**Consulting Civil Engineer**  
Practice in the fields of hydrology, hydraulics, flood control, ecosystem restoration, streambank protection design.
- 1999 - 2005 US Army Corps of Engineers, Sacramento, CA  
**Senior Project Manager**  
Responsible for implementation of the Napa River Flood Protection Project, a \$272M project under construction. Managed the efforts of a 20 member Project Delivery Team of engineers, real estate agents, and scientists for the purpose of constructing this project. Point of contact with others for implementation and policy questions.
- 1994 - 1999 US Army Corps of Engineers, Sacramento, CA  
**Engineering Technical Manager**  
Responsible for engineering design efforts for a series of projects including channel modification, levees, dams, and wetland restoration projects. Managed design teams that consisted of geologists, geotechnical engineers, material engineers, structural engineers, hydrologists, hydraulic engineers, and civil engineers.
- 1992 - 1994 Oregon Department of Transportation, Region 4, Bend, OR  
**Design Team Leader**  
Responsible for preliminary designs for highway modernization and major maintenance highway projects in Central Oregon. Performed and coordinated final review for contract documents for projects about to go into construction.

- 1989 - 1992      **US Army Corps of Engineers, Sacramento, CA**  
**Engineering Technical Manager**  
Responsible for engineering design efforts for a series of projects including channel modification, levees, dams, and wetland restoration projects. Managed design teams of various engineering disciplines.

## PROJECT HISTORY

### 1999 to Present

- ◆ Responsible for project management and implementation of the Napa River Flood Protection Project.
- ◆ Issued and completed 5 different construction contracts with a total value of \$35M.

### 1994 - 1999

- ◆ Prepared Final Supplemental General Design Memorandum for the Napa River Flood Protection Project. Memorandum presented final economic justification and all preliminary engineering design information on the project.
- ◆ Prepared Engineering Technical appendix for the Feasibility Study of the Lake Kaweah spillway raise.
- ◆ Managed final design for the Yolo Basins Wetlands Project. Coordinated construction with the assistance of Ducks Unlimited.

### 1989 – 1994

- ◆ Prepared Engineering Technical appendix for the American River Watershed Feasibility Study. Study evaluated wide range of alternatives for increasing flood protection for the City of Sacramento. Evaluated different levee modification alternatives as well as a range of storage alternatives at the Auburn Dam Site on the American River.

## CONTINUING EDUCATION

- ◆ Streambank Protection
- ◆ Flood Fight Methods
- ◆ Risk-Based Analysis for Flood Damage Reduction Studies
- ◆ Managing Projects in Organizations
- ◆ Scheduling and Cost Control