

## S. MEHDI SOBHANI

### EDUCATION

Ph.D. Civil Engineering (Hydrodynamics), University of Southern California

M.S. Civil Engineering (Earthquake Engineering), University of Southern California

M.S. Mechanical Engineering (Fluid Mechanics), University of Southern California

B.S., Civil Engineering, Shiraz University, Iran

### REGISTRATION

Professional Engineer (PE), State of California

### PROFESSIONAL EXPERIENCE

Manager, County of Orange, Flood Program Division, 2008-2017

Senior Civil Engineer, County of Orange, Flood Program Division, Hydrology Section, 2001-2008

Civil Engineer, County of Orange, Flood Program Division, Santa Ana River Project, 1989-2001

Adjunct Professor, Civil Engineer Department, University of California Irvine, 2002-2003

Assistant Professor, Northrop University, Inglewood, CA 1983-1989

Adjunct Professor, Civil Engineering Dept., University of Southern California, 1984

Research Assistant, Civil Engineering Department, University of Southern California, 1978-1983. Research area: (a) Experimental and numerical modeling of fluid flow in steep channels and study development of natural and periodic roll waves on steep slopes, (b) Two-dimensional finite element computer program to study the response of periodic incident waves with an inclined and portable barrier.

Civil Engineer, Manager of Design Division and Assistant Director of Engineering Bureau, Shiraz, Iran, 1972-1978

### PUBLICATIONS

S. M. Sobhani, J. J., Lee, L. C. Welford, "interaction of Periodic Waves with Inclined Portable Barrier", Journal of Waterways, Port, Coastal and Ocean Division, ASCE, November 1988.

S. M. Sobhani, "Interaction of Waves and Structures-Application to inclined Breakwater", PhD Dissertation, Civil Engineering Department, University of Southern California.

S. M. Sobhani, "Theoretical & Numerical modeling of Interaction of Periodic Incident Waves with a Two-Dimensional Hinged Inclined Barrier", The Planning and Management of California Coastal Resources, USC, Sea Grant Institutional Program, University of Southern California

S. M. Sobhani, "Waves and Currents in Coastal Regions of Sharply Changing Water Depth", The Planning and Management of California Coastal Resources, USC, Sea Grant Institutional Program, University of Southern California.

S. M. Sobhani and K. Irajpanah, "Mechanical Roll Waves Train Propagating in a Channel with Reaches of Different Slopes,  $1 < FR < 2$ ", Civil Engineering Department, University of Southern California, (Based on Physical model that we designed and constructed at USC Hydraulic Laboratory to simulate the development of natural and period roll waves).

C. M. Ma and S. M. Sobhani, "Problem of Harbor Modeling", The Planning and Management of California Coastal Resources, USC, Sea Grant Institutional Program, University of Southern California.

#### PROFESSIONAL ACTIVITIES, HONORS, GRANTS

Lectured in the continuing education for the members of the American Society of Civil Engineering on Hydrology subjects.

Prepared numerous complex hydrology reports for watersheds in Orange County

Converted the Orange County Hydrology Manual to metric version.

Recipient of Stuart Foundation Grants for two consecutive years for establishing two Civil Engineering Laboratories, Northrop University, Inglewood California.

Recipient of Sea Grant Traineeship while pursuing the Ph. D. program, Civil Engineering Department, University of Southern California.

Life Member, American Society of Civil Engineers (ASCE)