

Curriculum Vitae

Personal

Name: HOMAYOON
Surname: ZAKER
Date of Birth: 15-08-1964
Place of Birth: Tehran, Iran
Nationality: Iranian
Native Language: Persian (Farsi)
Other Languages: English & French
Marital Status: Married (2 children)

Educational

- PhD, Marine Hydraulics (2003), Tarbiat Modarres Univ., Tehran, Iran. PhD Thesis: *“Laboratory Studies of Sedimentation in Dredged Trenches under Combined Waves and Tidal Currents.”*
- M.E, Hydraulic Structures (1990), Tehran Univ., Tehran, Iran. M.E, Thesis: *“Numerical Modeling of Ocean Wave Diffraction using Mild Slope Equations together with Laboratory Model Tests.”*
- B.E, Civil Engineering (1987), Ferdowsi Univ., Mashed, Iran

Professional

Middle East Water & Environment, (MEWE) Consulting Engineers

- President of MEWE 2008 – present
- CEO of MEWE 2004 -2008

Water Research Center, (WRC, Affiliated to Ministry of Energy)

- Technical Deputy Director 2003-2004
- Member of Board of Directors 1999- 2004
- Head of Scientific Cooperation Office 2001- 2002
- Technical Deputy Director 1999-2000
- Head of Field Measurements Division 1995-1998

- Head of Coastal Engineering Division 1991-1994

Managerial Fields of Experience

- Company Management: Strategic Management, Human Resource Management, Quality Management (Based on ISO 9001:2008)
- Project Management: Project Master Planning, Budgeting, Outsourcing, Project Control

Technical Fields of Experience

- Water & Tailings Management in Mines (water dams, tailings dams and thickeners, water and tailings pipelines and pump stations)
- Sea Water Desalination Plants (water intakes, pre & post treatment units, RO units, water storage and transfer facilities)
- Water Resources Studies (surface waters, ground waters and coastal waters)
- Met Ocean Field Measurements and Data Analysis (Tides, waves, currents, water & sediment sampling)
- Application of Tracer Techniques in Groundwater Studies (Natural isotope tracers & Artificial dye tracers)
- Laboratory Tests on Flow and Sediment Transport Phenomenon (Waves, Tidal currents, Fine sediment transport)
- Dam Reservoir Sedimentation (Hydrographic operations and data analysis)

Projects Involved

- Met Ocean Studies of Forooz B, Marine Gas Pipeline, Persian Gulf, Iran, 2013, (Project Manager)
- Estimation of Sedimentation Rates in Iranian Ports based on Dredging Statistics, Iran, 2010-2011, (Project Manager)
- Tailings Management Designs (Dry Stacking) for Zarshooran Gold mine, Zanjan, Iran, 2010-2011, (Project Manager)
- Water Supply Study for Tehran Land (1001 Cities) Recreation Center, Tehran, Iran, 2010, (Project Manager)

- Design Review of SWRO Desalination plant of Hormozgan Cement Complex, Khamir Port, Iran, 2010, (Project Manager)
- MAPNA 900 MW power plant water resources studies, Assaluyeh, Iran, 2009, (Project Manager)
- KUHESTAK Seawater desalination plant, feasibility study, Persian Gulf, Iran, 2008, (Project Manager)
- SARCHESHMEH copper mine water & tailings storage management projects, Kerman, Iran, 2006 - 2007, (Assistant Project Manager)
- BEHESHTI port hydrodynamic and environmental baseline measurements, Chabahar Bay, Sea of Oman, 2005, (Project Manager)
- Met Ocean studies in NIGEC Gtl Complex site, Kangan, Persian Gulf, Iran, 2004, (Project Manager)
- Wave penetration and sedimentation studies in Anzali Port, Caspian Sea, Iran, 2003, (Project Manager)
- Met Ocean studies in PARDIS Petrochemical Complex site, Assaluyeh, Persian Gulf, Iran, 2002, (Project Manager)
- Met Ocean studies in MOBIN Petrochemical Complex site, Assaluyeh, Persian Gulf, Iran, 2001, (Project Manager)
- Met Ocean studies in Khowr-e-Musa, North of Persian Gulf, Iran, 2000, (Project Manager)
- Groundwater studies by tracing techniques in Seymareh and Lorestan dams, Iran, 1998-1999, (Project Manager)
- Reservoir sedimentation studies of Saveh, Pishin, Torogh and Doroodzan Dams, Iran, 1997-1998, (Assistant Project Manager)
- MetOcean Studies in Genaveh Port, Iran, Persian Gulf, 1996, (Project Manager)
- Modification of Neka thermal power plant cooling water basin layout, Caspian Sea, Iran, 1995, (Assistant Project Manager)
- SEFIDRUD river mouth training studies, Caspian Sea, Iran, 1994, (Project Manager)

Publications

- **Zaker, H.** "Role of Physical Modelling in Design and Construction of Rubble Mound Breakwaters"; ICOPMAS I, 1990, Tehran, Iran.
- **Zaker, H.** and Azarmsa, A. "*History of Metocean studies in Iran*"; ICOPMAS III, 1998, Tehran, Iran.
- **Zaker, H.** and Salehi, A. A.; "*Numerical simulation of wave diffraction*"; International Conference on Port and Maritime R&D and Technology, 2001, National University of Singapore.
- Maraghei, A., **Zaker, H.** & Allahdadi, M.; (2002); "*Wave Measurements and Analysis in Khowr-e-Musa, North of Persian Gulf*", littoral 2002, Porto, Portugal.
- Salehi, A. A., **Zaker, H.** and Javan, M.;" "*Numerical Simulation of Turbulent Flow in Dredged Channels*"; ICOPMAS V, 2002, Ramsar, Iran.
- **Zaker, H.**, Salehi, A., Maraghei, A., Poormandi, A. H.; "*Intra-tidal variation of vertical profiles of current and suspended sediment concentration*" Modarres Journal, 2003, Vol. 4, pp. 103-118.
- Seif, H.R., Roshdih A., **Zaker H.**; "Optimization of Tailings and Water Management Schemes in Taft and Daraloo Copper Mines", International Symposium on Dams In a Global Environmental Challenges, Bali, Indonesia, June 1st – 6th, 2014.

Scientific Associations Membership

- Member of Iranian Hydraulic Association.
- Member of Environmental Committee of Iranian Water Research Council, 2001-2003.
- Secretary of Iranian Commission on Large Dams, 1996.