

# CWEMF 2018 Awards

Distinguished Life Membership

Hugo B. Fischer

Career Achievement

April 2, 2018

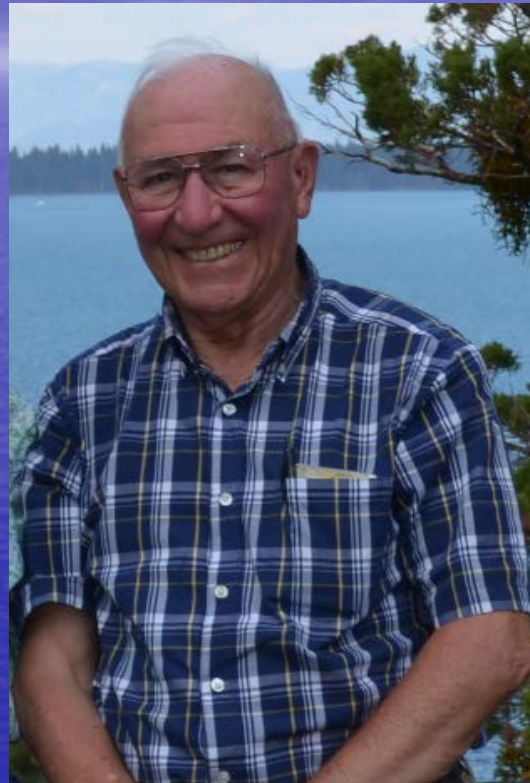
# Distinguished Life Membership Award

CWEMF's Distinguished Life Membership Award is given annually to active or past members who, through long and distinguished service, have made a major contribution to CWEMF and to the California water and environmental modeling profession.

The recipient must have been a CWEMF member for at least ten years (not necessarily in a row) and been a regular attendee at the CWEMF Steering Committee Meetings and/or Annual Meetings or have other significant contributions to the organization.



# 2018 Distinguished Life Membership Award Winner



Hubert Morel-Seytoux  
Hydroprose International Consulting

# Hubert Morel-Seytoux

- B.S. Eng. Sci (1953) Ecole Sainte-Genevieve, Versailles, France
- M.S. Structural Eng. (1956) Ecole Nationale des Ponts et Chaussées, Paris
- Ph.D. Stanford University (1965) Civil Eng. Fullbright 1956-1959.
- Emeritus Professor of Civil Engineering Colorado State University, after 25 years of teaching
- Principal at Hydroprose International Consulting
- Director of Research ORSTOM Montpellier, France
  - More than 200 peer reviewed papers and reports in surface and subsurface hydrology, geohydrology, optimization, reservoir operations, river basin modeling, water resources management and conjunctive management.
  - Best paper Water Resources Research Journal (1975) stream-aquifer interactions
  - Best Theory Paper, EWRI Planning and Management Council (1999), res operations
  - Memberships: ASCE, AGU, IASH, IAHR, AMS, SSSA, SPE, NGA
- Visiting scholar Stanford University, lecturer UC Berkeley
- Consultant: ORSTOM, Reclamation, EU, DWR, MWDSC, and others
- CWEMF Steering Committee Member and Peer Review Team



# Hubert Morel-Seytoux

*In recognition of your many years of outstanding service to the organization as an active Steering Committee member, Annual Meeting session moderator and presenter, as well as your participation in CWEMF-sponsored peer reviews.*

*The awards committee also recognizes your impact on many generations of CWEMF members through your academic contributions and your continuous promotion of modeling tools applied to water resources problems.*

# 2018 Distinguished Life Membership Award Winner: Hubert Morel-Seytoux



Hubert with his wife, last summer, on the deck of their cabin overlooking Fallen Leaf lake, a few miles from South Lake Tahoe.





# 2018 Hugo B. Fischer Award



California Water and  
Environmental Modeling Forum



# Hugo B. Fischer Award

- In honor of Dr. Fischer's pioneering work on San Francisco Bay-Delta water quality modeling
- Supported by the Fischer Family
- Conceived and endowed by Lyle Hoag  
Retired Executive Director of CUWA
  - Co-founder of CWEMF

# Hugo B. Fischer

- B.S. (1958), M.S. (1963) & Ph.D. (1966) from California Institute of Technology
- Professor of Civil Engineering at U.C. Berkeley until 1983
- World-renowned authority in:
  - Salt water intrusion
  - Water pollution
  - Heat dispersion in waterways
  - Mixing of rivers & oceans



# Hugo B. Fischer Award

The Hugo B. Fischer Award recognizes pioneering contribution(s) to the use of modeling for understanding or solving California water problems

- The innovative development, refinement or application of a computer model, or:
- Significant furtherance of the effective use of models in open forums for planning or regulatory functions

# Past Fischer Award Honorees

- 1995 – Dr. Alan Jassby (UCD) *and* Dr. Richard Denton (CCWD)
- 1996 – Dr. Ralph Cheng (USGS)
- 1997 – Dr. Greg Gartrell (CCWD) *and* Dr. Francis Chung (DWR)
- 1999 – Walter Bourez III (SWRI) *and* Jack Rowell (USBR)
- 2000 – Dwight Russell (DWR); Kamyar Guivetchi (DWR)
- 2001 – Armin Munevar (DWR)
- 2002 – Dr. Gerald Orlob (UCD)
- 2003 – Dr. Emin Dogrul (DWR)
- 2004 – Tom Heinzer (USBR)



# Past Fischer Award Honorees

- 2006 – Dr. Carl Chen (Systech) *and* Dr. Paul Hutton (MWDSC)
- 2007 – Dr. John DeGeorge (RMA)
- 2008 – Dr. Jay Lund (UCD) *and* Dr. Richard Howitt (UCD)
- 2009 – Dr. Peter Smith (USGS)
- 2011 – Dr. Russell Brown (ICF)
- 2012 – Nancy Parker (USBR)
- 2013 – Dr. Nigel Quinn (LBNL, USBR)
- 2014 – Dan Easton (MBK Engineers)
- 2015 – Dr. Mike Deas (Watercourse Engineering Inc.)
- 2016 – Dr. Eli Ateljevich (DWR)
- 2017 – Rich Juricich (DWR)
- 2018 - ?

# 2018 Hugo B. Fischer Award Winners

Ali Taghavi



Saquib Najmus



Woodard & Curran



# Ali Taghavi

- 1989 – Ph.D. Civil Engineering, UC Davis
- 1984 – M.S. Civil Engineering, UC Davis
- 1981– B.S. Civil Engineering, UC Berkeley

## Professional Highlights

- Founder of WRIME, Inc. merged first with RMC then Woodard and Curran
- Project engineer, the original CVGSM model, and co-author of IGSM code
- Development Integrated Groundwater and Surface Model (IGSM)
- Project director and project manager for more than 46 projects on water resources, modeling and data management, environmental enhancement compliance and permitting
- Involved planning and design of conjunctive use projects and other basin-wide planning statewide

# Saquib Najmus

- 1990 – Ph.D. Civil Engineering, UC Davis
- 1984 – M.S. Civil Engineering, University of Kentucky
- 1982– B.S. Civil Engineering, Bangladesh Univ. of Engineering

## Professional Highlights

- Founder President of WRIME, Inc. merged first with RMC then Woodard and Curran where he is Vice President.
- Project engineer the original CVGSM model, and co-author of IGSM code
- Numerous applications of IGSM, IWFM, and MODFLOW
- Coauthor IGSM water quality module now linked to IWFM
- Author AWWA Water Resources Planning Manual, hydrologic modeling and groundwater development sections
- Active on DWR SGMA group for water budget handbook with California Water Plan



# Ali Taghavi and Saquib Najmus

*In recognition for your contributions to the development and use of the Integrated Groundwater and Surface Model (IGSM) and its key application Central Valley Groundwater-Surface Water Model (CVGSM), which set the foundations for the current Integrated Water Flow Model (IWFM) and application California Central Valley Simulation Model (C2VSIM). Together, these modeling platforms have significantly advanced integrated hydrological modeling research and planning in California over the past 25 years. The Forum also recognizes your significant contributions in integrating modeling, data, and analysis in a common framework for visualizing and sharing data and modeling results.*

# 2018 Hugo B. Fischer Award Winners

Ali Taghavi



Saquib Najmus



Woodard & Curran





# Career Achievement Award

The CWEMF Career Achievement Award is given to individuals for significant and sustained contributions during their career in developing, using or promoting computer modeling to analyze California's water-related problems. Specifically, nominations should recognize significant and sustained contribution(s) in:

- Increasing the usefulness of models in water management analyses in California;
- Promoting sound quantitative analyses in water management decisions;
- Raising public awareness and improving public acceptance of the role of modeling



# Past Career Achievement Honorees



Lyle Hoag, 2004



Maury Roos, 2005



George Barnes Jr, 2006



Darryl W. Davis, 2007



Lloyd Peterson, 2008

# Past Career Achievement Honorees



Ray Hoagland, 2009



Richard Denton, 2010



Miguel Marino, 2011



Sushil Arora, 2013



William Fleenor, 2017



Don Smith, 2015



# 2018 Career Achievement Award Winner



Francis Chung

Formerly, Department of Water Resources

# Francis Chung

- Ph.D. Civil Engineering, UC Davis
- M.S. Civil Engineering, UC Davis
- B.S. Civil Engineering, Seoul National University
- 34 years with California Department of Water Resources
- Published 50 papers in various professional journals covering hydrology, hydraulics, systems operations, groundwater, water quality, and facilities planning.



# Francis' Accomplishments Include:

- Responsible for managing over 50 engineers & scientists DWR
- Directed work on surface and groundwater hydrology, water quality, climate change, system operations, water demand estimations, water conservation, future facilities and planning, and environmental stewardship
- Leading and/or promoting development of publically available modeling tools including WRIMS/CalSim, IWFM/C2VSim, DSM2 and Bay-Delta SCHISM.
- Helped government of Mexico establish climate change response plan in 2007
- Guest lecture before the United Nations in Geneva in 2008, from Executive Council of the World Meteorological Organization

# Francis Chung

*In recognition of your significant and sustained contributions to the California modeling community by leading and promoting development of publicly available modeling tools including WRIMS/CalSim, IWFm/C2VSim, DSM2, and Bay-Delta SCHISM. Your leadership has been instrumental in maintaining these models that are now widely accepted by the modeling community to inform water management, research and planning in California. CWEMF also recognizes your longstanding support of the Forum and for encouraging and advocating the use of modeling tools in supporting water and environmental management decisions.*



# 2018 Career Achievement Award Winner



Francis Chung

Department of Water Resources

**THANK YOU!**