



# **CWEMF 2024 Awards**

**Distinguished Life Membership  
Career Achievement  
Hugo B. Fischer**

Folsom, California

September 23, 2024

# Distinguished Life Membership Award

Recognizes 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:

- CWEMF member for at least 10 years (not necessarily in a row)
- Regular attendee at CWEMF Steering Committee and/or Annual Meetings
- Other significant contributions to the organization

# Past Distinguished Life Membership Award Winners

2010: K.T. Shum

2011: George Nichol

2012: Rich Satkowski

2014: Nigel Quinn

2015: Tariq Kadir

2016: Marianne Guerin

2017: Tara Smith

2018: Hubert Morel-Seytoux

2019: Stacy Tanaka

2020: Paul Hutton

2023: Ben Bray

2024...

# 2024 Distinguished Life Membership Award Winner

Prabhjot (Nicky) Sandhu



# Nicky Sandhu

- Chief Engineer, Delta Modeling Section, DWR
- BTech, Civil Engineering, Indian Institute of Technology Delhi, 1991

## **CWEMF Membership Highlights:**

- Member and Steering Committee participant since ~2010
- Instrumental lead in recording and posting audio and video of Annual Meeting sessions since 2018
- Hosted technical workshops on DSM2 and other Delta models
- Frequent session presenter and moderator at Annual Meetings

# Nicky Sandhu

*In recognition of your many years of outstanding service to the CWEMF organization, including as a Steering Committee and other Subcommittees member, and significant contributions to the Annual Meetings and Workshops. We thank you for your continuous organization and participation in technical workshops related to the Delta, presenting and moderating sessions at the Annual Meetings. Your initiation and lead of the effort to memorialize CWEMF workshops and the Annual Meeting sessions through video recordings -and post-editing to ensure a valuable product- will serve the CWEMF membership and stakeholders as an invaluable resource for many years to come.*

# Career Achievement Award

Recognizes significant and sustained contributions in developing, using, or promoting computer modeling to analyze California's water-related problems:

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

# Past Career Achievement Award Winners

2004: Lyle Hoag

2005: Maury Roos

2006: George Barnes Jr.

2007: Darryl Davis

2008: Lloyd Peterson

2009: Ray Hoagland

2013: Sushil Arora

2015: Don Smith

2017: Bill Fleenor

2018: Francis Chung

2019: Jobaid Kabir

2020: Parviz Nader-Tehrani

2024...



# 2024 Career Achievement Award Winner

Dr. Abdul Khan



# Dr. Abdul Khan

- Manager, Water Budget & Analytics Section, DWR
- PhD, Civil Engineering, University of Kentucky, 1997
- MS, Civil Engineering, Clarkson University, 1986
- BSc, Civil Engineering, Bangladesh University of Engineering, 1982

## **Professional Highlights:**

- Over 30 years directing water resource planning teams
- Led development on significant DWR efforts, including:
  - Groundwater Sustainability Framework for California Water Plan Update 2013
  - Handbook for Water Budget Development: With and Without Models
  - Assumptions & Estimates Report for the California Water Plan
  - Future Scenarios Studies for Water Plan Update 2028
- CWEMF Steering Committee Member and past Vice-Convener, frequent session presenter and moderator at Annual Meetings

# Dr. Abdul Khan

*In recognition of your significant and sustained contributions to the California water and environmental modeling community over more than three decades. CWEMF applauds your leadership and promotion of the development and use of publicly available modeling tools and applications (e.g., C2VSIM) for many water management programs, including the California Water Plan and the implementation of California's Sustainable Groundwater Management Act, as highlighted by your milestone report "Handbook for Water Budget Development: With and Without Models". CWEMF also appreciates your longstanding support of our Annual Meetings as presenter and moderator, as a Steering Committee member, Vice-Convenor, and California Department of Water Resources representative.*

# Hugo B. Fischer Award

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

Recognizes pioneering contributions to the use of modeling for understanding or solving California water problems:

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

# Hugo B. Fischer

- BS (1958), MS (1963), & PhD (1966) from California Institute of Technology
- Professor of Civil Engineering at U.C. Berkeley until 1983
- World-renowned authority in saltwater intrusion, water pollution, heat dispersion in waterways, and mixing of rivers, lakes, and oceans



# Past Hugo B. Fischer Award Winners

1995: Richard Denton  
& Alan Jassby

1996: Ralph Cheng  
& Greg Gartrell

1997: Francis Chung

1999: Walter Bourez III  
& Jack Rowell

2000: Kamyar Guivetchi  
& Dwight Russell

2001: Armin Munevar

2002: Gerald Orlob

2003: Can Dogrul

2004: Tom Heinzer

2006: Carl Chen  
& Paul Hutton

2007: John DeGeorge

# Past Hugo B. Fischer Award Winners

2008: Richard Howitt  
& Jay Lund

2009: Pete Smith

2011: Russ Brown

2012: Nancy Parker

2013: Nigel Quinn

2014: Dan Easton

2015: Mike Deas

2016: Eli Ateljevich

2017: Rich Juricich

2018: Saqui Najmus  
& Ali Taghavi

2019: Chuck Young  
& Andy Draper

2023: Michael  
MacWilliams

2024...

# 2024 Hugo B. Fischer Award Winner

Dr. Edward S. Gross





# Dr. Edward S. Gross

- Principal & Project Manager, Resource Management Associates
- PhD, Civil & Environmental Engineering, Stanford, 1998
- MS, Civil Engineering, Stanford, 1992
- BS summa cum laude, Civil Engineering, UC Los Angeles, 1990

## **Professional Highlights:**

- Over 23 years of experience in environmental simulations of the coastal ocean, estuaries, and rivers
- Expert in estuarine physics and transport processes, particularly in the San Francisco Estuary
- Develops and applies 2D and 3D models to better understand of interactions of hydrodynamics with biological/ecological processes
- Consulting Assistant & Associate Professor, Stanford University  
Dept. of Civil & Environmental Engineering
- Author or co-author of more than 30 publications

# Dr. Edward S. Gross

*In recognition of your significant work contributions in improving fundamental modeling of the San Francisco Estuary and other aquatic systems by enhancing understanding of the interaction of hydrodynamics and mixing with biological and ecological processes both generally and within the San Francisco Bay and the Sacramento-San Joaquin Delta. Furthermore, you have distinguished yourself by developing applications of the proprietary TRIM3D and UNTRIM models, and public domain models based on SUNTANS and Delft3D, as well as your numerous publications on the subjects in peer reviewed journals.*

# 2024 Annual Meeting Sponsors: Monday Evening Social

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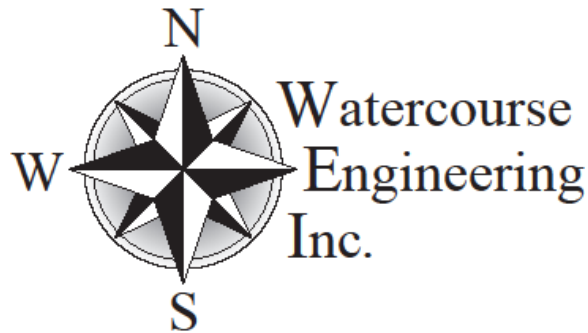
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# 2024 Annual Meeting Sponsors: Tuesday Social & Poster Session



# 2024 Annual Meeting Sponsors

## Lunches



## Refreshments





**CWEMF**

C A L I F O R N I A  
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**THANK YOU!**