



# **CWEMF 2023 Awards**

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

Folsom, California

April 17, 2023

# 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

# 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...

# 2023 Distinguished Life Membership Award Winner

Dr. Ben Bray



# Dr. Ben Bray

- Senior Civil Engineer & PE, East Bay Municipal Utility District
- PhD, Civil Engineering, UC Los Angeles, 2006
- MS, Civil Engineering, UC Los Angeles, 2002
- BS, Environmental Resource Engineering, Humboldt State, 2000

## **CWEMF Membership Highlights:**

- Member and Steering Committee participant since 2007
- Groundwater-Surface Water Peer Review, 2013
- CWEMF Strategic Plan and Bylaw updates, 2015
- Frequent session presenter and moderator at Annual Meetings
- Vice-Convener 2011-2013 and Convener 2013-2015
- Secretary since 2020

# Dr. Ben Bray

*In recognition of your many years of outstanding service to the CWEMF organization in multiple capacities, including Steering Committee member, Vice-Convener, Convener, and current Secretary. We thank you for your valuable contributions to past CWEMF peer reviews, strategic plans, and bylaw improvements, as well as for your service as presenter and moderator for numerous technical sessions at Annual Meetings. CWEMF also recognizes your passionate commitment to thorough, organized, and transparent documentation of organization activities through Steering Committee and Business Meeting minutes.*



# Hugo B. Fischer Award



# 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: Saquib Najmus  
& Ali Taghavi

2019: Chuck Young  
& Andy Draper

2023...

# 2023 Hugo B. Fischer Award Winner

Dr. Michael MacWilliams



# Dr. Michael MacWilliams

- PhD, Civil & Environmental Engineering, Stanford, 2004
- PE: CA, OR, MD, NC
- MS, Civil & Environmental Engineering, Stanford, 1998
- BS, Engineering & Environmental Science, Notre Dame, 1997
- BA, English, Notre Dame, 1997

## **Professional Highlights:**

- Principal Engineer at Anchor QEA, over 22 years of experience in water resources, hydrodynamic, and environmental analysis.
- Primary developer of unTRIM Bay-Delta 3D Model and has continually improved the model since then.
- Promoted quantitative model evaluation metrics and helped promote model use in numerous federal, state, and local studies.
- Author or co-author of more than 28 publications. Consulting Assistant Professor at Stanford 2004-2013.

# Dr. Michael MacWilliams

*In recognition of your pioneering contributions to three-dimensional modeling of the San Francisco Bay and Sacramento-San Joaquin Delta to increase our understanding of the interactions between flow, the low salinity zone, water operations, and habitat. Your continued work to improve, enhance, and refine the UnTRIM Bay-Delta Model has promoted its application by many federal, state, and local agencies. Your work has included valuable contributions to the Delta Risk Management Strategy, Bay-Delta Conservation Plan, and the Low Salinity Zone Flip Book. Your publications clearly demonstrate the importance of your work in the fields of hydrodynamic modeling, estuary science, and habitat management.*



# 2023 Annual Meeting Sponsors: Monday Social & Business Meeting

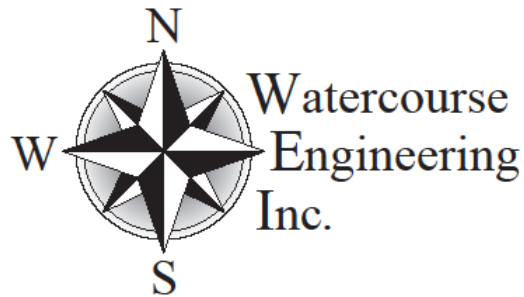
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# 2023 Annual Meeting Sponsors: Tuesday Social & Poster Session



# 2023 Annual Meeting Sponsors

## Lunches



## Refreshments





**CWEMF**

C A L I F O R N I A  
*Water & Environmental  
Modeling Forum*

**THANK YOU!**