# 2024 CWEMF Annual Meeting 30<sup>th</sup> Anniversary Plenary Session



CWEMF at 30: Looking to the Past, Recalibrating for the Future





# **CWEMF Mission**

CWEMF is a non-profit, non-partisan organization whose mission is to increase the usefulness of models and technical analysis tools for evaluating California's water-related problems and to provide a collaborative forum for advancing knowledge on water issues.

Officers
Convener
Vice-Convener
Secretary
Treasurer
Past Convener

Steering Committee

**Bylaws** 

Executive Director Webmaster

Membership Organization Members Individual Members



### 2024 CWEMF Organization Members

#### **LARGE**

- Cal Department of Water Resources
- Cal State Water Resources Control Board
- U.S. Bureau of Reclamation

#### **MEDIUM**

- Contra Costa Water District
- Delta Stewardship Council
- East Bay Municipal Utilities
   District
- Metropolitan Water District of Southern California
- U.S. Geological Survey

#### **PRIVATE (SMALL)**

- Geosyntec
- ICF
- INTERA
- Jacobs
- Resource Management Associates
- S.S. Papadopulos & Associates
- Stantec
- West Yost Associates
- Woodard & Curran



#### The History of the California Water and Environmental Modeling Forum



**CWEMF Ad hoc History Committee** 

August 28, 2024

# A Brief History



1978

D-1485

1986

Racanelli Decision 1992

Draft

D-1630













1982
Peripheral
Canal
Rejected

1987

SWRCB Hearings 1994

Bay-Delta Accord CALFED Formation

Bay-Delta Modeling Forum (BDMF) Established

1st BDMF Workshop



#### 1995

1<sup>st</sup> BDMF Annual Meeting in Asilomar

#### 2000

Modeling Protocols Document

#### 2004

Name Change to CWEMF













#### 1996

Peer Review Guidance Document

#### 2001

1<sup>st</sup> Peer Review

#### 2005

Strategic Analysis Framework Document



2012

Annual Meeting Location Moved to Folsom



CWEMF Strategic Plan Adopted



Modeling Protocols Document Update













2014

Sustainable Groundwater Management Act 2020-21

On-Line Annual Meetings (COVID Pandemic) 2024 Strategio

Strategic Plan Review Initiated

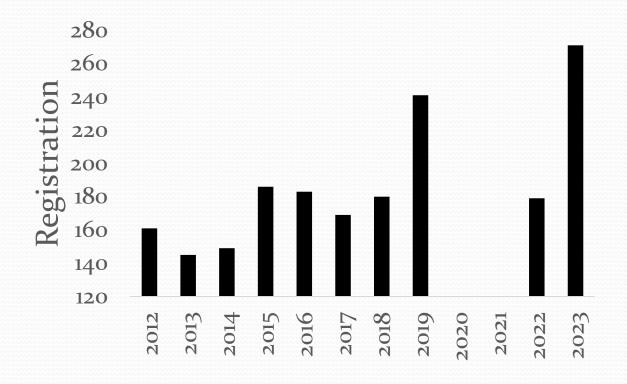


# Notable Accomplishments

- Technical conferences (Annual Meeting) held every year since 1995
- Workshops (over 100 since 1995)
- Reports
  - Protocols for Water & Environmental Modeling (2000, 2021)
  - A Strategic Analysis Framework for Managing Water in California (2005)
- Peer Reviews (6)



# Annual Meeting Registration 2012-2023





# Thank You to Our Officers

Present & Past



#### **CWEMF Executive Director & Officers**

Executive Director:	Paul Hutton (Tetra Tech, Inc.)
Convener:	Jesse Jankowski (SWRCB)
Vice- Convener:	Vivek Bedekar (S.S. Papadopulos & Assoc.)
Secretary:	Ben Bray (East Bay Municipal Utility District)
Treasurer:	Stacy Tanaka (Watercourse Engineering, Inc.)
Past- Convener:	Tariq Kadir (CA Dept of Water Resources)



# Past CWEMF Conveners

2021- 2022 2019- 2020	Tariq Kadir (CA Dept of Water Resources)  Shyamal Chowdhury (United States Army Corps of Engineers)
2017- 2018	Tariq Kadir (CA Dept of Water Resources)
2015- 2016	Josué Medellín-Azuara (UC Davis)
2013- 2014	<b>Ben Bray</b> (East Bay Municipal Utility District)
2011- 2012	Marianne Guerin (Resource Management Associates)
2009- 2010	<b>Paul Hutton</b> (Metropolitan Water District of Southern California)
2007- 2008	Tara Smith (CA Dept of Water Resources)
2005- 2006	<b>K. T. Shum</b> (East Bay Municipal Utility District)

2002-2004	Nigel Quinn (Lawrence Berkeley NL, U.S. Bureau of Reclamation)
2001	Richard Satkowski (State Water Resources Control Board)
2000	Rob Tull (CH <sub>2</sub> M Hill)
1999	<b>Spreck Rosekrans</b> (Environmental Defense)
1998	<b>Richard Denton</b> (Contra Costa Water District)
1996-1997	Jay Lund (U.C. Davis)
1995	Jeff Lefkoff (Hydrologic Consultants, Inc.)
1994	<b>Greg Gartrell</b> (Contra Costa Water District)

## Past CWEMF Vice Conveners

2021- 2022	Jesse Jankowski (SWRCB)
2020	Tariq Kadir (CA Dept of Water Resources)
2019	<b>Abdul Khan</b> (CA Dept of Water Resources
2017- 2018	<b>Shyamal Chowdhury</b> (United States Army Corps of Engineers)
2015- 2016	Tariq Kadir (CA Dept of Water Resources)
2013- 2014	Josué Medellín-Azuara (UC Davis)
2011- 2012	<b>Ben Bray</b> (East Bay Municipal Utility District)
2009- 2010	Marianne Guerin (Resources Management Associates)
2007- 2008	<b>Paul Hutton</b> (Metropolitan Water District of Southern California)

2005-2006	<b>Tara Smith</b> (CA Dept of Water Resources)
2003-2004	<b>K.T. Shum</b> (East Bay Municipal Utility District)
2002	Rob Tull (CH <sub>2</sub> M Hill)
2000-2001	<b>Lloyd Peterson</b> (U.S. Bureau of Reclamation)
1999	<b>George Barnes</b> (CA Department of Water Resources)
1998	<b>Spreck Rosekrans</b> (Environmental Defense)
1996-1997	<b>Richard Denton</b> (Contra Costa Water District)
1995	Jay Lund (U.C. Davis)
1994	Jeff Lefkoff (Hydrologic Consultants, Inc.)

## Past CWEMF Secretaries

2021- Present	Ben Bray (EBMUD)
2013-2020	George Nichol (Retired)
2001-2012	George Nichol (State Water Resources Control Board)
2000	<b>George Nichol</b> (Central Valley Reg. Water Quality Control Bd)
1994-1999	George Nichol (U.S. Army Corps of Engineers)



# Past CWEMF Treasurers

2008-present	Stacy Tanaka (Watercourse Engineering, Inc.)
2002-2007	<b>Lisa Holm</b> (Contra Costa Water District, CALFED)
2001	<b>Kevin Long</b> (State Water Resources Control Board)
1994-2000	Margaret Johnston (San Francisco Estuary Institute)



# Thank You to Our Steering Committee



### **CWEMF Steering Committee 2024**

- Will Anderson (SWRCB)
- Vivek Bedekar (SSP&A)
- Ben Bray (EBMUD)
- Yiwei Cheng (DWR)
- Shyamal Chowdhury (USACE)
- Mike Deas (Watercourse)
- John DeGeorge (RMA)
- Ben Geske (Delta Stewardship)
- Regina Graziano (SWRCB)
- Samson Haile-Selassie (DWR)
- Katherine Heidel (Tetra Tech)
- Anne Huber (ICF)
- Jesse Jankowski (SWRCB)
- Norman Johns (DWR)
- Tariq Kadir (DWR)
- Abdul Khan (DWR)
- Puneet Khatavkar (Stantec)
- Jesse Jankowski (SWRCB)

- Norman Johns (DWR)
- Tariq Kadir (DWR)
- Abdul Khan (DWR)
- Puneet Khatavkar (Stantec)
- Josue Medellin (UC Merced)
- Kijin Nam (DWR)
- George Nichol (Public Member)
- Nicole Osorio (DWR)
- Pavithra Prakash (DWR)
- Nigel Quinn (LBL)
- Eric Reyes (DWR)
- Nicky Sandhu (DWR)
- Rich Satkowski (Public Member)
- Yung-Hsin Sun (Sunzi)
- Stacy Tanaka (Watercourse)
- Jon Traum (USGS)
- Rob Tull (Jacobs)
- Zhong Zhang (HEC/Portland State U.)

# Thank You to Our Past Executive Directors



### Past CWEMF Executive Directors

2010-2017	<b>Elaine Archibald</b> (Archibald Consulting)
2003-2010	Richard Satkowski (SWRCB)
1997-2002	John Williams (Retired)



# Congratulations to Our Previous Award Winners



## Hugo B. Fischer Award

- 2023 Dr. Michael MacWilliams (Anchor)
- 2019 Charles Young (SEI)
- 2018 Dr. Saquib Najmus (Woodard & Curran)
- 2018 Dr. Ali Taghavi (Woodard & Curran)
- 2017 Rich Juricich (DWR)
- 2016 Dr. Eli Ateljevich (DWR)
- 2015 Dr. Mike Deas (Watercourse)
- 2014 Dan Easton (MBK)
- 2013 Dr. Nigel Quinn (LBL/USBR)
- 2012 Nancy Parker (USBR)
- 2011 Dr. Russ Brown (ICF)
- 2009 Dr. Pete Smith (USGS)
- 2008 Dr. Richard Howitt (UC Davis)
- 2008 Dr. Jay Lund (UC Davis)
- 2007 Dr. John DeGeorge (RMA)

- 2006 Dr. Paul Hutton (MWDSC)
- 2006 Dr. Carl Chen (Systech)
- 2004 Tom Heinzer (USBR)
- 2003 Dr. Emin C. Dogrul (DWR)
- 2002 Dr. Gerald Orlob (UC Davis)
- 2001 Armin Munevar (DWR)
- 2000 Kamyar Guivetchi (DWR)
- 2000 Dwight Russell (DWR)
- 1999 Walter Bourez (SWRI)
- 1999 Jack Rowell (USBR)
- 1997 Dr. Francis Chung (DWR)
- 1997 Dr. Gregory Gartrell (CCWD)
- 1996 Dr. Ralph Cheng (USGS)
- 1995 Dr. Richard Denton (CCWD)
- 1995 Dr. Alan Jassby (UC Davis)

# 1<sup>st</sup> Fischer Award Winners (1995)



#### Career Achievement Award

- 2022 Dr. Parviz Nader-Tehrani (DWR)
- 2019 Dr. Jobaid Kabir (USBR)
- 2018 Dr. Francis Chung (DWR)
- 2017 Dr. Bill Fleenor (UC Davis)
- 2015 Don Smith (RMA)
- 2013 Dr. Sushil Arora (DWR)
- 2011 Dr. Miguel Marino (UC Davis)
- 2010 Dr. Richard Denton (CCWD)
- 2009 Ray Hoagland (DWR)
- 2008 Lloyd Peterson (USBR)
- 2007 Darryl Davis (HEC)
- 2006 George Barnes (DWR)
- 2005 Maury Roos (DWR)
- 2004 Lyle Hoag (Brown & Caldwell)

1<sup>st</sup> Career Achievement Award Winner (2004)



## Distinguished Life Member Award

- 2023 Dr. Ben Bray (EBMUD)
- 2022 Dr. Paul Hutton (Tetra Tech)
- 2019 Dr. Stacy Tanaka (Watercourse)
- 2018 Dr. Hubert Morel-Seytoux (Hydroprose)
- 2017 Tara Smith (DWR)
- 2016 Dr. Marianne Guerin (RMA)
- 2015 Dr. Tariq Kadir (DWR)
- 2014 Dr. Nigel Quinn (LBL/USBR)
- 2012 Rich Satkowski (SWRCB)
- 2011 George Nichol (SWRCB)
- 2010 Dr. K.T. Shum (EBMUD)

# 1st DLM Award Winner (2010)



Water & Environmental Modeling Forum

# Thank You to Our 2024 CWEMF Annual Meeting Sponsors



# **Monday Evening Social Sponsors**

# **JACOBS**<sup>®</sup>











# **Tuesday Evening Social Sponsors**













## Other Sponsors

#### Lunches



#### Refreshments











Review for Water

Propose a Special Issue

#### Journal Menu

- Water Home
- Aims & Scope
- Editorial Board
- Reviewer Board
- Topical Advisory Panel
- Instructions for Authors

#### Water Resources Planning Toolkits for Climate Resiliency and Economic Sustainability

- · Print Special Issue Flyer
- Special Issue Editors
- · Special Issue Information
- Keywords
- . Benefits of Publishing in a Special Issue
- Published Papers

A special issue of Water (ISSN 2073-4441). This special issue belongs to the section "Water and Climate Change".

Deadline for manuscript submissions: 25 July 2025 | Viewed by 7108

This Special Issue on "Water resources planning toolkits for climate resiliency and economic sustainability" seeks contributions that describe innovative approaches that can be applied by stakeholders, government entities and regulators to plan environmentally sound, sustainable, and cost-effective water resource and water management strategies to cope with present and future anticipated threats. Examples from agriculture, municipal and industrial sectors, and environmental stewards are encouraged. Papers that develop cross-cutting and integrated approaches are particularly encouraged.

Some examples of topics that submitted papers may address include:

- •Novel or successful sensing techniques for measuring and monitoring water resource availability, quantity, and quality as a basis for progressing towards future sustainable management.
- •Novel computer-based-simulation modeling and other analytical techniques that enhance understanding of environmental and/or economic threats as an aid to the formulation of coping and solution strategies.
- •Advanced sensor and remote-sensing technologies that can be integrated with more traditional modeling approaches for sustainable water and water quality resource management.
- •Innovative economic and non-economic accounting practices that can be integrated with more traditional decision-support tools to meet 21st century water, water quality, and other resource management challenges.
- •Integration of new methods and approaches to address broader ecosystem services and tackle unintended consequences of water and water-quality resource management decisions and regulations.

#### https://www.mdpi.com/journal/water/special issues/7DN3XCZ1I5

Papers may be submitted from now until July 25, 2025 - papers are published on an ongoing basis. Submitted papers should not be under consideration for publication elsewhere. We also encourage authors to send a short abstract or tentative title to the Editorial Office in advance (djurdjevic@mdpi.com).

Water is one of MDPI's open access journals. It is indexed in \*SCIE\* and has the Impact Factor 3.530 An article processing charge (APC) of 2200 CHF (Swiss Francs) applies to papers accepted after peer review.

#### Manuscripts published to date include the following (all CWEMF members)

