



**Avoid Water Shortages and
Benefit Your Community
Through Water Portfolio
Planning With Desalination
and Salt Management**

*7th Annual CalDesal Conference
February 7-8, 2019*

DoubleTree Golf Resort Palm Springs

Welcome!

As Chair of CalDesal, it is my pleasure to welcome you to the 7th Annual CalDesal Conference where we will discuss Desalination and Salt Management – Avoid water shortages and benefit your community through water portfolio planning with desalination and salt management.

Since the beginning of record keeping, precipitation in California has been highly variable and unpredictable with periods of drought. This fact, combined with increasing population, has clearly demonstrated that California Water Managers have made the correct decision to diversify regional and local water supply portfolios. Even after relatively high rainfall years like we experienced in 2017, drought conditions can return quickly and public interest in California's water situation is still at an all-time high. Desalting brackish groundwater or seawater provides a drought resilient, locally controlled supply of safe, clean drinking water. Additionally, salt management strategies are increasingly playing an important role in protecting water quality and quantity. Retaining all water supply options, including responsible desalination, is vitally important to assure the public that there will continue to be a reliable water supply to maintain our quality of life and to protect the environment.

Over the next two days we hope you will enjoy our discussions of salt management strategies and desalting to meet 21st century challenges. We will focus on brackish groundwater, regional salt management strategies, technologies in desalination, and project operations. We will also continue our dialogue on practical considerations related to the 2015 State Water Resources Control Board rules for ocean intakes and brine disposal back into the ocean.

Our goal with this conference is to stimulate discussion to further develop a sustainable desalination and salt management strategy for California. We would also like to grow our mutual network and ensure that CalDesal is positioned as THE leading California organization advocating for these key water portfolio elements.

As you attend the conference, please reach out to our sponsors and your fellow attendees to grow our knowledge and our network! And, if your organization hasn't done so already, consider joining CalDesal.

Thank you!

Sincerely,

Bob Shaver, Chair of CalDesal

About CalDesal

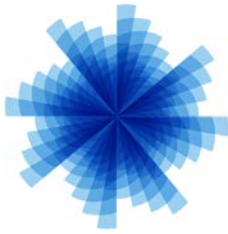
Since its formation as a non-profit organization in 2010, CalDesal has established itself as a credible voice and an effective advocate for desalination and salinity management. CalDesal advocates in Sacramento and engages throughout the state to secure policies and funding to promote desalination and salinity management.

Together, CalDesal members are building a strong, unified voice for policies and funding to promote and expand desalination and salinity management.

Visit our website at www.caldesal.org to read more about ocean desalination, brackish water desalination and salinity management and how CalDesal can work for you.

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ENGINEERING
TOMORROW





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Attendee List 10

CALDESAL PROGRAM PLANNING WORK GROUP

**Kevin Thomas
Kimley-Horn**

**Sean Stewart
GEOSCIENCE**

**Mark Donovan
GHD**

**Richard Svindland
California American Water**

**Paul Findley
PLFAgua, Inc.**

**Warren Teitz
The Metropolitan Water
District of Southern
California**

**Joe Monaco
Dudek**

**Phil Rosentrater
Salton Sea Authority**

**Zita Yu
West Basin Municipal
Water District**



AGENDA

7th Annual Desalination Conference

All Seminars will take place in Room Mesquite ABC

DAY ONE

Thursday, February 7, 2019

8:30 am – 9:45 am Registration / Continental Breakfast
Room - Mesquite Foyer

10:00 am – 10:25 am Opening Remarks
Chair Bob Shaver, Executive Director Paul Kelley

10:30 am – 11:50 am Session I: Ocean Desalination
Implementing the Ocean Plan
Amendments

Moderator: *Joe Monaco, President, Dudek*

Panelists:

Daniel Ellis, Environmental Scientist, State Water Resources Control Board

Kim Anderson, Director, Utility Planning & Business Development

Rich Svindland, President, California American Water

Stan William, Vice President, Poseidon Water

Description:

This program will examine the amendments to the California Ocean Plan related to ocean water desalination that came into effect in 2016, and will specifically address developments in addressing the process of making a Determination pursuant to Section 13142.5(b) of the California Water Code. The panelists will discuss their experiences in applying for and processing a Water Code Determination, and discuss the status and challenges associated with implementation of the rules on current and future ocean desalination projects.

12:00 pm – 1:30 pm **Keynote Luncheon**

Room - Mesquite ABC

New State Water Resources Control Board Member Sean Maguire “A Call for Water ingenuity in 2019”

– Thank you Luncheon Sponsor IDE Americas



Sean Maguire was appointed to the State Water Resources Control Board in December 2018 by Governor Brown and is a registered civil engineer. Mr. Maguire has had a diverse career both in both public service and as an engineering consultant, which provides a valuable perspective of the administrative challenges facing a government agency and needs of a broad array of water interests. Mr. Maguire has a Bachelor of Science in Civil Engineering from California State University, Sacramento.

1:30 pm – 2:45 pm **Session II: Salinity Management and Water Supply for California**

Moderator: *Phil Rosentrater – GM/Executive Director Salton Sea Authority*

Panelists: *Salton Sea Authority
Ian Prichard – Camrosa Water District*

Description:

Agencies are experiencing changes in their source water portfolio and a steady increase of salinity in those matters affecting salt and other nutrient management plans. This discussion is about how to handle the issues, deal with regulatory agencies, and implement projects. Including a report from IRWD on their study and model on salinity impacts in their service area.

2:45 pm – 3:30 pm **Break - Networking and Exhibit Time**

3:30 pm – 4:40 pm **Session III: Desalination and Implementing Different Technologies**

Moderator: *Mark Williams, PE, Phd, Vice President, Geoscience Support Services*

Panelists:

Scott Seyfried, Hydrologist, State of California: Technical feasibility considerations in OPA

Brian Villalobos, PG, CHG, CEG, Principal, Geoscience Support Services: Slant well overview & feasibility determination

Rich Svindland, President, California American Water: Project perspective on Monterey Peninsula Desal feasibility considerations

Zita Yu, Technical Planning Supervisor, West Basin Municipal Water District: Wedge Wire and open intake feasibility considerations

Description:

How is technical feasibility defined under the Ocean Plan Amendment, and what should be considered when establishing technical feasibility? This session will provide an overview of OPA requirements and the considerations used to determine technical feasibility for two types of ocean water intakes—subsurface slant wells, and wedge-wire screened open ocean intakes. A brief overview will be provided for slant-well and wedge-wire intakes and case studies will be discussed for each intake type.

Both types of intakes have their strengths and issues to consider when establishing which type is feasible for a given location. The panelists will help shed some light on what to consider when establishing technical feasibility and what options are available to projects.

4:45 pm – 4:55 pm **New Member Spotlight: Finance and rate impacts of desalination projects.** *NBS Gov – Greg Clumpner*

5:00 pm – 6:30 pm **Reception** *(Poolside)*

DAY TWO**Friday, February 8, 2019**

8:00 am – 8:30 am **Continental Breakfast**

Room - Mesquite Foyer

8:30 am – 8:55 am **Funding Update: DWR Prop 1 Desalination Grant Program Round 4 Update**

***Presenter:** Nancy King - Water Resources Engineer, DWR Recycling and Water Desalination section*

8:55 am – 9:20 am **Session IV: Future Trends “Water Desalination Report” and Desalination Policy Report**

***Moderator:** Paul Kelley, Executive Director CalDesal*

***Panelists:** Tom Pankratz, WDR – “Innovative Tech – what works, what doesn’t, and what looks promising”*

Description:

This session will have a speaker to explore current and future technological innovations in desalination. A brief report on legislative affairs.

9:20 am – 9:25 am **Break**

**9:20 am – 10:40 am Session V: Groundwater Desalination:
A Water Portfolio Tool**

Moderator: Paul Findley, PLFAgua, Inc

Panelists: Cindy Miller, Vice President, Hazen and Sawyer – Chino Basin
Desalter Authority Phase 3 Expansion Project

Diane Gatzka - WRD - Regional Groundwater Desalination Project

Andrew Renshaw – SGMA Implementation Manager, State Water Board

Description:

Groundwater desalination is an increasingly powerful tool being used by local and regional agencies as they implement SGMA, deal with impaired groundwater basins, and provide a reliable source of water.

10:25 am – 11:35 am Session VI: Desalination Facility Operations

Moderator: Mark Donovan, GHD, Desalination Program Manager

Panelists: David Moxey, Desal Plant Manager - IDE America's

Ignacio (Nacho) Beneyt, Desal Operations & Maintenance Manager, Acciona

Description:

This panel will provide an overview of the Ocean Desalination regulatory requirements in California from an Operations perspective by looking at two operational ocean desalination facilities, Carlsbad and Santa Barbara. The panel will also review how such requirements can vary across the US and globally, and will provide valuable insight to the unique Operational requirements in California that project proponents should be aware of.

11:40 am – 12:00 pm Wrap - up



ATTENDEE LIST

Kim Adamson
Liberty Utilities

Paul Allison
MWH Constructors

Robert Bergstrom
Sustainable Desal LLC

John Burnett
Electric Power Research Institute (EPRI)

Charles Busslinger
Municipal Water District of Orange Count

Greg Clumpner
NBS

Ian Crooks
California American Water

Jeremy Crutchfield
San Diego County Water Authority

Donald Dear
West Basin Municipal Water District

Marice DePasquale
Mesa Water District

Mark Donovan
GHD

Tom DuBose
Oceanus Power & Water

Doug Eisberg
Avista Technologies Inc.

Daniel Ellis
State Water Resources Control Board

Dennis Erdman
South Coast Water District

Paul Findley
PLFAgua, Inc.

Steve Friedman
HDR

Diane Gatza
Water Replenishment District of
Southern CA

Silvana Ghiu
Hazen and Sawyer

Bill Green
South Coast Water District

Renaë Hinchey
Laguna Beach County Water District

Tim Hogan
TWB Environmental Research and
Consulting, Inc.

Kevin Hunt
Rincon Consultants, Inc.

Jay Johnson
Applied Marine Sciences

John Kennedy
Orange County Water District

Mh Kim
LG NanoH2O, LLC

Cheryl Kinsman
Laguna Beach County Water District

Phil Lauri
Mesa Water District

Sean Maguire
State Water Resources Control Board

Hal Martin
Vallecitos Water District

Dan McMillan
Helix Water District

Frank Mellon
East Bay Municipal Utility District

Aubrey Mescher
Rincon Consultants, Inc.

Cindy Miller
Hazen and Sawyer

Eric Miller
Miller Marine Science & Consulting, Inc.

Joe Monaco
Dudek

Debbie Neev
Laguna Beach County Water District

Nathaniel Olken
Alden

Phil Paule
Eastern Municipal Water District

Toni Pezzetti
Department of Water Resources

Jeff Quimby
Contra Costa Water District

Christopher Regan
Laguna Beach County Water District

ATTENDEE LIST (CONT.)

Andrew Renshaw
State Water Board

Phil Rosentrater
Salton Sea Authority

Joel Scalzitti
Helix Water District

Thomas Seacord
Carollo Engineers, Inc.

Scott Seyfried
State Water Resources Control
Board

Makrom Shatila
Michael Baker International

Patrick Sheilds
West Basin Municipal Water District

Paul Shoenberger
Mesa Water District

Sean Stewart
Geoscience Support Services, Inc.

Richard Svindland
California American Water

Warren Teitz
Metropolitan Water District of Southern California

Kim Tenggardjaja
State Water Resources Control Board

Brian Villalobos
GEOSCIENCE Support Services, Inc.

Sandra Walker
Oceanus Power & Water, LLC

Troy Walker
Hazen and Sawyer

Jeff Wall
Eastern Municipal Water District

Harold Williams
West Basin Municipal Water District

Mark Williams
GEOSCIENCE Support Services, Inc.

Stan Williams
Poseidon Water

Zita Yu
West Basin MWD

Eric Zigas
ESA



SAVE THE DATE

May 8, 2019
Monterey, CA

Board Meeting
7:00 am

CalDesal Mixer
5:30 pm - 7:00 pm



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