



Officers

ELMER CHEUNG, P.E.

Chairperson
San Francisco Public Utilities Commission
echeung@sfpwater.org
(415) 551-4668

J. DARBY HOWARD, Jr., P.E.

Vice Chairperson
JDH Corrosion Consultants, Inc.
jhoward@jdhcorrosion.com
(925) 927-6630

PATRICK BYRNE

Secretary
Carboline Company
PByrne@carboline.com
(415) 660-6070

JACKSON BLAKE

Treasurer
B&W Distributors
jblake@bwdist.com
(510) 458-0678

BILLY CAMPBELL

Member At Large
Billy Campbell Technical Services
nacethreeinspector@gmail.com
(415) 637-5027

JULIE ZAK

Chapter Delegate
Aurora Environmental Services, Inc.
jzak@auroraesi.com
(707) 477-2311

MICHAEL WESTON

Communications
Protection Engineering
mweston@protection-eng.com
(909) 227-0119

JEFF KIM

Technical Chair for Protective Coating
The Sherwin Williams Company
jeff.g.kim@sherwin.com
(714) 809-5363

LINDA RODRIGUES

Sponsorship Chair
Farwest Corrosion
lrodrigues@farwestcorrosion.com
(510) 244-9445

Date:

November 12, 2024

(Always the 2nd Tuesday)

Location:

Zio Fraedo's Restaurant
611 Gregory Lane
Pleasant Hill, CA

Note: This is an evening program

No Host Bar: 5:30 p.m.

Dinner Served: 6:15 p.m.

Program: 7:00 p.m.

Cost: \$20 pp, for members & guests

*Please help us - RSVP soon for planning & scheduling
Deadline to register is Friday, November 8th, 2024*

Visit AMPP's NorCal Chapter website: www.ampp-norcal.org

If you need more information, please email us at:

amppnorcal@outlook.com, or contact any officer

Topic: Utilizing ROVs and Pipe Crawlers for Improved Confined Space Inspections

The inspection and maintenance of hydro plants, particularly confined spaces, present significant challenges due to the inherent hazards and complexity of the environment. This presentation will outline the benefits and methodology of employing Remotely Operated Vehicles (ROVs) and mini pipe crawlers integrated with photogrammetry capabilities to create Digital Twins and sonar orthomosaics for the assessment of asset integrity. These ROVs and crawlers, designed to navigate confined and potentially hazardous spaces, are capable of capturing high-resolution images and generating accurate 3D models of hydro plant assets. This innovative approach facilitates thorough examinations without the need for human entry into high-risk areas. By deploying ROVs, operators can remotely conduct inspections, collect data, and monitor conditions in real-time. This not only aids in identifying cracks, corrosion, blockages, and other issues, but also improves safety through remote operation, reducing operator exposure to dangerous and confined spaces.

Speaker: Andrew Lawrence, Senior Account Manager of Deep Trekker Inc.

Andrew has been the Senior Account Manager with Deep Trekker for five years. He brings a strong background in power generation and regularly consults with his clients to provide sophisticated approaches to robotic inspections. Always striving to drive inspection trends and applications, Andrew is dedicated to testing new use-cases and sharing those experiences with new customers to drive robotic adoption in hydro and nuclear facilities.