

**2018 – 2019 Officers**

MOHAMMED ALI, P.E.  
*Trustee*  
 JDH Corrosion Consultants, Inc.  
 (925) 927-6630  
[correngineer@aol.com](mailto:correngineer@aol.com)

MONGKOL MAHAVONGTRAKUL, P.E.  
*Chairperson*  
 Port of San Francisco  
 (415) 274-0563  
[mmahavon@gmail.com](mailto:mmahavon@gmail.com)

ELMER CHEUNG, P.E.  
*Vice Chairperson*  
 San Francisco PUC  
 (415) 551-4668  
[echeung@sflower.org](mailto:echeung@sflower.org)

LARRY WONG, P.E.  
*Treasurer*  
 Consultant  
 (408) 373-0483  
[larry539@gmail.com](mailto:larry539@gmail.com)

PATRICK BYRNE  
*Secretary*  
 Carboline Company  
 (415) 660-6070  
[pbyrne@carboline.com](mailto:pbyrne@carboline.com)

BILLY CAMPBELL  
*Membership Chairperson*  
 Billy Campbell Technical Services  
 (415) 637-5027  
[nacethreeinspector@gmail.com](mailto:nacethreeinspector@gmail.com)

MENG LOPEZ-GARRITY, P.E.  
*Communications*  
 Mears Group, Inc.  
 (925) 820-7630  
[Meng.Lopez-Garrity@Mears.net](mailto:Meng.Lopez-Garrity@Mears.net)

J. DARBY HOWARD, Jr., P.E.  
*Technical Committee*  
 JDH Corrosion Consultants, Inc.  
 (925) 927-6630  
[dhoward@jdhcorrosion.com](mailto:dhoward@jdhcorrosion.com)

NORM MORIBER, P.E.  
*Technical Committee*  
 MP Technical Editor  
 (925) 963-1443  
[norm.moriber@gmail.com](mailto:norm.moriber@gmail.com)

DAN DAY-  
*"Officer Emeritus"*  
 (925) 785-2511  
[dday5551@gmail.com](mailto:dday5551@gmail.com)

PAUL BOSTWICK  
*Web Master*  
 Corpro Companies  
 (510) 614-8800  
[pbostwick@aegion.com](mailto:pbostwick@aegion.com)

**Date**

**Location**

**Tuesday, January 8<sup>th</sup> 2019**

**Zio Fraedo's Restaurant**  
 611 Gregory Lane, Pleasant Hill, CA.  
 (925) 933-9091

**Time: No Host Bar 5:30 pm • Dinner 6:30 pm • Program 7:15 pm**  
**Cost: \$10 NACE members, NACE retirees, and attendee's.**

*Please RSVP immediately by the Whoozin System. If you need additional information, please email to Mongkol Mahavongtrakul. [mmahavon@gmail.com](mailto:mmahavon@gmail.com) or by phone at 415-274-0563*

***Cancellation deadline is Friday, January 4th.***

***We may send you an invoice of \$32 per person for a NO-SHOW***

Visit the Section Website at [www.nace-sf.org](http://www.nace-sf.org)

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**TITLE: Worldwide Development of Degradation Resistant Nuclear Materials Triggered by the Fukushima Nuclear Accident**

**ABSTRACT:**

Nuclear power is classified as clean energy together with wind, solar and hydroelectric power, since it does not raise the carbon footprint. The tsunami induced station blackout accident at the Fukushima Daiichi power stations in March 2011 was an unfortunate event. However, this crisis mobilized the worldwide nuclear community to embark on design, development, and deployment of new nuclear materials, both for light water reactors and for advanced design reactors that enable safer and higher performance nuclear energy systems. The newer efforts triggered a much-needed change in the nuclear industry, which has been using a dozen pre-1970s materials for decades. The presentation will address the current research efforts to provide newer corrosion resistant materials for nuclear power stations.

**BIO:**

Raul B. Rebak is a Senior Corrosion Engineer working at the GE Global Research Center in Schenectady, NY since October 2007.

Previously, he was employed at the University of California Lawrence Livermore National Laboratory where he was the lead for materials corrosion testing in the Yucca Mountain Project.

Currently Raul leads a multimillion dollars' multiyear project with the Department of Energy in Accident Tolerant Nuclear Fuels. Raul is also involved in several other areas of materials degradation such as oil & gas, aviation, transportation, and energy storage.

Raul has a Ph. D. degree in Materials Science and Corrosion from The Ohio State University (USA) and is a Fellow of NACE International, The Corrosion Society.

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