



Oakland East Bay IAS invites you to attend a Technical Virtual Meeting on **December 10, 2020**

Title: **Switchgear Battery System Technologies**

Speaker: Michael Nakamura, Sales Engineer, Matzinger-Keegan, Inc. (MKI)
Mark Magoon, Western Regional Sales Manager, Stored Energy Systems (SENS)

Date: Thursday, December 10, 2020

Time: Presentation will be from 6:00 to 8:00 pm

Place: Virtual Technical Meeting via WebEx

RSVP: **Please make reservations by December 7** by contacting Luis Soria via email: lmsq@pge.com for WebEx Login information.

Cost: Registration is Free

Meeting Description:

Please plan to attend this virtual meeting of the Industry Applications Society. The speakers will Michael Nakamura, Sales Engineer, Matzinger-Keegan, Inc. and Mark Magoon, Western Regional Sales Manager, Stored Energy Systems (SENS). This will be a two-part presentation.

In Part 1, Michael Nakamura will discuss the PG&E requirements for battery systems for utility interconnection projects.

In Part 2, Mark Magoon will discuss switchgear battery system technologies and various applications. Mark will discuss the differences between VRLA and flooded lead-acid batteries. Mark will discuss factors that affect battery life and review IEEE battery sizing calculations. Mark will end with a discussion on Ni-Cd batteries compared to lead acid batteries.

About the Speaker:

Michael Nakamura is a Sales Engineer with Matzinger-Keegan, Inc. (MKI), a manufacturer's representative. Prior to joining MKI, Mr. Nakamura was a Senior Electrical Engineer at the East Bay Municipal Utility District (EBMUD) where he supervised the Wastewater Electrical Engineering section. At EBMUD, Mr. Nakamura worked on the design, construction, testing, startup, commissioning, and troubleshooting of power distribution, control, and automation systems at water and wastewater facilities. Mr. Nakamura received the B.S.E.E. degree from California Polytechnic State University at San Luis Obispo. He is a Senior Member of IEEE and past-Chairman of the Oakland-East Bay Industry Applications Society. Mr. Nakamura holds a Certificate in Project Management from UC Berkeley Extension, and is a Registered Professional Engineer in the State of California.

Mark Magoon is the Western Regional Sales Manager at Stored Energy Systems (SENS) in Loveland, CO. Mr. Magoon worked twenty 20 years for Nexergy/AVT as Sales Manager designing batteries and chargers for portable power products. He has spent the past eight years working for Stored Energy Systems (SENS) designing batteries and chargers for the industrial power market. The Industrial markets include switchgear, utility, oil and gas, and industrial controls. Mr. Magoon holds a BS degree in Business from the Michigan State University.

Upcoming Meetings - Mark your Calendars:

Jan 21, 2021 – TBD

IEEE- IAS/OEB Officers:

Chairman: **Luis Soria**, Pacific Gas and Electric Company, (415) 793-7909, lmsq@pge.com
Vice-Chairman: **Raymond Cooper**, Eaton Corporation, (925) 416-9169, RaymondTCooper@eaton.com

Treasurer: **Raymond Cooper**, Eaton Corporation, (925) 416-9169, RaymondTCooper@eaton.com
Secretary: **Gerald F. Wheeler**, Lawrence Livermore National Laboratory, (925) 423-0919, wheeler15@llnl.gov
Membership: **Bob Salter**, e2energy technologies, (415) 308-2384, r.salter@ieee.org
Webmaster: **Jamie Fox**, Google, (510) 326-0442, jmfox@google.com
Publicity Chair: **Kent Liang**, Pacific Gas and Electric Company, (415) 613-5051, kent.liang@pge.com
Education Chair: **Alexis Wells**, Eaton Corporation, (510) 402-9092, AlexisWells@eaton.com
Adviser: **Michael Nakamura**, Matzinger-Keegan Inc., (925) 330-6595, michael@mkireps.com