IEEE Systems Council Coastal Los Angeles Section Chapter
2022 Chapter Activity Report

Date: 2/2/2023
Prepared by Dr. Hen-Geul (Henry) Yeh, Chair, IEEE Systems Council Coastal Los Angeles Section (CLAS) Chapter

Activity Summary

IEEE Distinguished Lecture Series and Seminars

- ➤ Dr. Charlie Jackson, "3D Printing, Microwave Design, and Woodwinds Come Together," 4:00 pm – 6:00 pm, 3/9/2022, ECS 312, CSULB
- ➤ Christopher Dunbar, "Interdisciplinary Engineering Skills are Driving Space Innovation," 12:00 noon – 1:00 pm, 3/18/2022, Virtual, CSULB

The 13th Annual IEEE Green Energy and Systems Conference was held on Nov. 7-8, 2022, Virtual, CSULB.

Theme: Data-driven science in and engineering in smart grid and smart systems, Internet of Things, Sustainable and Secured Systems, Optimized Power Grids with Battery, Smart Transportation Systems.

Opening Remark
Dr. Karyn Scissum Gunn, Ph.D., Provost, California State University, Long Beach (CSULB)

Keynote Speaker: Dr. Tom Coughlin, President, Coughlin Associates, Inc.
                        Topic: The Shape of Things to Come

Workshop Speakers:
1. Dr. Ching-Yen Chung, Charging System Engineer, Canoo Inc.
     Topic: Electric Vehicle Charging System and Infrastructure
2. Mr. Erik Takayesu, Senior VP, Asset Strategy & Planning, Southern California Edison
     Topic: Innovating to Reimagine the Grid and achieve a clean energy future
3. Ms. Adrienne Fedrick Newbold, Harbor Engineer, Port of Los Angeles,
     Topic: "Port of Los Angeles Resiliency in Capital Improvement Projects"
4. Mr. Michael Li, *Lead Vehicle System Control Engineer,* Evolectric Inc.
     Topic: "The Electric Conversion of Commercial Truck"
5. Mr. Chirag Patel, Principal Application Engineer, MathWorks,
     Topic: "Battery Systems Modeling & Simulation"
6. Dr. Saleh Al Jufout, Professor of EE Department, CSULB,
     Topic: "Variable Frequency Drive Modeling & Simulation"

There were more than 23 professional papers presented in the Technical Session. A total of 37 papers were submitted (6 from international, 22 from USA, 9 from CSULB).

<u>Student Post Session and Competition (A total 3 papers submitted, 3 accepted, 3 presented)</u>

➢ Xunfei Jiang, Icess L. Nisce and Sai Vishnu (California State University, Northridge, USA), "*A Study of Thermal Modeling of Cluster Systems using Machine Learning*," won the Best Poster Award

➢ Ehsan Naderi, and Arash Asrari (California State University, Northridge, USA), "*Detection of False Data Injection Cyberattacks: Experimental Validation on a Lab-scale Microgrid*", won the Power Systems Award,

➢ Marco A Marrufo (California State University, Long Beach, USA), "*Wavelet Denoising-Based Deconvolution Algorithm for Radio Telescope Imaging*," won the Smart Systems Award,

Faculty, Students, and Researchers/Engineers, from international, such as Canada, Austria, Singapore, China, South Africa, and domestic, such as Cal Poly Pomona, Caltech, UCLA, USC, University of Oviedo, UCI, etc., have being participated the paper presentation/publication and Students paper contest since 2010.

The lasting impact of these efforts on engineering education is very significant. Based on a survey of IGESC attendees conducted by the IEEE CSULB Student Branch, 93% of respondents agreed that the Conference had a positive impact on their career.

Celebration Party on 1/21/2023 at Long Beach.

All activities are co-sponsored by IEEE CSULB Student Branch

Call For Papers: IGESSC 2023

http://sites.ieee.org/clas-sysc/call-for-papers/

All past (2010 – 2022) IGESSC records are available at Website:
https://site.ieee.org/clas-sysc/past-conferences/

All past (2013 – 2022) IEEE Distinguished Lecture Series of IEEE CLAS System Council Chapter at Website:
https://site.ieee.org/clas-sysc/clas-sysc/

*Thanks to all officers, volunteer helpers, and CSULB IEEE student branch for their help on Registration, posting flyers, emailing, etc., for each meeting.