

IEEE Systems Council Coastal Los Angeles Section Chapter 2018 Chapter Activity Report

Date: 12/1/2018

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Activity Summary

IEEE Distinguished Lecture Series and Seminars

- Leo Petrossian, “Entrepreneurship in Medical Technology,” 11:00 – 12:00 noon, 9/24/2018, ECS 312, CSULB
- Richard Bravo, “Solar Photovoltaic Inverters,” 4:00 – 5:00pm, 5/4/2018, ECS 317, CSULB
- Mr. Cliff Cousins, “Thinking Out of the Box: Cultivating an Innovation Mindset,” 12:15 – 1:30pm, 5/4/2018, VEC 424, CSULB
- Dr. B. Sklar, “Things We Ought to Know About Digital Communications, Part VI,” 4:00pm – 6:00pm, 5/1/2018, VEC 424, CSULB
- Mr. Mark McDonnell, “Renewable Energy From Biogas, and its Role in California’s Energy Market,” 4:00 – 6:30, 3/2/2018, ECS 317, CSULB
- Dr. Hannes Wegleiter (visiting Prof. from Austria), “Energy Storage Systems for Automotive Applications,” 5:00 – 6:00pm (Th), 3/1/2018, VEC 424, CSULB
- Dr. Franz Baumgartner (visiting Prof. from Switzerland), “Optimization of the Load Flow Calculation Method-Low Voltage Distribution Grids,” 12:15 – 1:15pm, 2/13/2018, VEC 424, CSULB
- Dr. D. C. D. Chang, “Digital Enveloping,” 12:15 – 1:30pm, 2/2/2018, VEC 424, CSULB

Co-Sponsor IEEE Young Professional Multi-Society Event: “Revolutionary Internet of Things (IoT)”, 3/3/2018 (Sat.), ECS 312, CSULB

The 9th Annual IEEE Green Energy and Systems Conference was held on Oct. 28-30, 2018, the Pointe of Pyramid, CSULB.

Theme: Smart Systems, Engineering a Resilient, Sustainable, Secure, Optimized Power Grid with Battery, and Intelligent Transportation Systems

- Keynote Speaker: Dr. Ender Ayanoglu of UCI. – Why Energy Efficiency is Very Important and Its Tradeoff with Spectral Efficiency in Next-Generation Cellular Networks

- Luncheon Speaker: Dr. Ni-Bin Chang of University of Central Florida, Title: Multi-sensor Satellite Image Fusion, Data Merging, and Machine Learning for Monitoring the Changing Urban Food-Energy-Water Nexus
- 170 attendees, including international and local researchers, faculty, students, and professional engineers, participated.
- There were more than 20 professional papers presented in the Technical Session. A total of 39 full papers were submitted (10 from international, 29 from USA, 8 from CSULB)

Website 2018 (for more detail):

<http://sites.ieee.org/clas-svsc/>

Student Post Session and Competition (A total 6 papers submitted, 6 accepted, 6 presented)

- Jared Jetter, “Density Functional Theory Study of Catalytic Capabilities of Nitrogen Doped Graphene,” won the 1st Place Award (\$175)
- Morgan Ware, Christina Braga, and Timothy Shuck, “Vehicle Re-Identification Using Dynamic Time Warping Algorithm”, won the 2nd Place Award (\$150),
- Brian Novoa and Ruben Luevano, “DFT Simulation of Nitrogen-Doped Carbon Nanosheets as HER Catalyst in Artificial Photosynthesis,” won the 3rd Place Award (\$125),
- Nicholas Humphrey, Robert Rodriguez, and Gabriel Arias, “Hydrogen Evolution Reaction with Platinum Using Density Functional Theory,” won the 4th Place Award (\$100)
- Charlie Norng, “DFT Simulation of Nitrogen-Doped Graphene as an ORR Catalyst in Fuel Cells,” won the 4th Place Award (\$100)

Faculty, Students, and 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.

Call For Papers: IGESSC 2019

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

End of Year Party on 11/28/2018 at Claim Jumper Restaurant, Long Beach.

All activities are co-sponsored by IEEE CSULB Student Branch

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