



Prof. Osvaldo Mendez (holding the IEEE PELS flag) with the UFMA professors and students after his lecture “Ocean Energies.”

of this type of renewable energy in the world.

On 26 July 2018, Prof. Marcelo Lobo Heldwein, from the Federal University of Santa Catarina–Brazil, gave a talk on static converter systems for underwater electrification in oil and gas exploration. The SBC also developed and started a new activity: the Methods, Efficiency, Time, Agility, and Solutions (METAS) Workshop.

The METAS Workshop presents tools that can be used by students of electrical engineering throughout their academic and professional lives. These words summarize the purpose of the METAS Workshop, which is to use methods and solutions so that students can manage their time in a certain activity with efficiency and agility. On 30 August 2018, the first topic addressed by

Chapter President Phelipe Leal Serafim Rodrigues was about the use of the Prezi tool to create presentations. The workshop was a great success and had 26 attendees.

IEEE Hour was held in partnership with the UFCG SB on 13 September 2018. The event lasted for one hour, during which the SB, SBCs, and affinity groups of the UFCG presented their developed activities.

by Gerald Christopher Raj Irudayaraj

IEEE PELS PSNA College of Engineering and Technology Student Chapter Workshops

On 7 September 2018, the IEEE Power Electronics Society (PELS) Student

Chapter of PSNA College of Engineering and Technology (CET), Dindigul, Tamilnadu, India, hosted a one-day national workshop “Hands-On Training on Low-Cost Solar Lamps” for more than 70 undergraduate stu-

dents (Figure 1). The event was organized in association with the IEEE Special Interest Group on Humanitarian Technology (SIGHT) and Liter of Lights, Bengaluru, India. Dr. Rajasekaran Vairamani, head of the Electrical



FIG 1 The IEEE PELS student members with event coordinators at the end of a training session on low-cost solar lamps. (Photo courtesy of PELS Student Chapter of PSNA CET.)

and Electronics Engineering Department, delivered the inaugural address. Over the course of the day, students heard a lecture by Dr. Sithambaram Muthukumaran, IEEE Student Branch counselor and professor in the Electrical and Electronics Department, followed by a demonstration on the use of reusable materials for cost reduction and reduction of greenhouse emissions by PELS Chapter faculty advisor Dr. Gerald Christopher Raj Irudayaraj.

The students built and tested their own lights by assembling the solar panel, controller, battery, and light-emitting diode lamp pipes and testing their operation. Students gained exposure to the latest technology and the use of reusable materials. Approximately 60 fully assembled lights are ready for installation, with plans to erect them in remote areas where access to electricity is not available. Pankaj Dixit, co-founder of Liter of Lights, Bengaluru,

funded the materials along with the IEEE SIGHT.

Foundation Course on Solar Photovoltaic Design

The Chapter also organized a foundational course on solar photovoltaic design from 20 to 21 July 2018. Dr. Raj, an associate professor in the Electrical and Electronics Department, organized this two-day course, which was attended by more than 100 undergraduate electrical engineering students from various institutes. Dr. Vairamani delivered the welcome address. The students learned about photovoltaic systems and solar-cell module development during the first day's morning session lectures by Dr. Raj and Dr. Soundar Rajan, assis-

tant professor in the Electrical and Electronics Department. In the afternoon session, the fabrication of solar cell modules was demonstrated. On the second day, students received practical training in charging controller units, battery charging, and mounting the structure in various environments from Dr. Mark Arul Prasanna, associate professor, and Arun Prasad, assistant professor in the Electrical and Electronics Department.

The students gained theoretical knowledge and practical experience from this two-day workshop. This course encouraged students to design and build their own photovoltaic systems and undertake new projects.

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