

Mobile Power Initiative Moves into Second Year

By Tom Coughlin, Lee Stogner, and Peter Corcoran

The Safe Advanced Mobile Power (SAMP) Initiative began in 2014 with two SAMP workshops. One was held in the summer in San Jose, California, and the other was in Galway, Ireland, in December. A white paper was written on this topic and is available on the SAMP Web page on the IEEE Consumer Electronics (CE) Society Web site. In January 2015, *IEEE Consumer Electronics Magazine* published an article on the group activities and the white paper. The 2014 SAMP Initiative was supported by a grant from the IEEE Future Directions Committee as well as the CE Society.

Tom Coughlin, vice president of Future Directions, led the SAMP effort in 2014. This year, Lee Stogner is heading up this effort. Lee is launching a mobile power flipbook similar to the transportation electrification flipboard that he has supported for several years as part of the IEEE Transportation Electrification initiative. You can read the new IEEE Battery flipbook supporting the SAMP efforts at <https://flipboard.com/@stogner/ieee-battery-led18fs0z>. Lee will also coordinate the 2015 workshops as well as the student design contests associated with these workshops, which are described here.

SAMP STUDENT DESIGN CONTESTS

In 2015, we received additional funding from the IEEE Future Directions

Committee to carry on student design contests during 2015 associated with mobile power sources and mobile power management. We are calling these the Mobile Power Design Contest. We plan to carry out two competitions in the fall of 2015. The first will be in the San Jose and will be associated with a follow-up workshop on the SAMP Initiative. The second will be in November in Dublin, Ireland, associated with our second



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SAMP Workshop. The competitions will be open to higher-level undergraduates and graduate students.

There will be prizes for the top three winners of each design contest and recognition of the winners from the three contests at the 2016 IEEE International Conference on Consumer Electronics in Las Vegas in January 2016. The first, second, and third prizes in each design contest will be US\$2,000, US\$1,000, and US\$500, respectively. The rules for the contest are as follows:

- ▼ The SAMP student design contest will include the design of a mobile

application with significantly improved power efficiency.

- ▼ There will be extra credit given in the contest for designs that incorporate an improved energy source for the mobile device (such as advanced batteries, fuel cells, energy harvesting, or directed power).
 - ▼ In all cases, the design must be able to meet safety requirements common for mobile consumer applications (contestants should read the SAMP white paper for guidance on these requirements at <http://cesoc.ieee.org/futuredirections/sampw.html> in the related links).
 - ▼ Participants can be single students or teams of students.
 - ▼ The contestants will be required to write a paper of no more than ten pages on their design and should be ready to demonstrate the design during the competition.
 - ▼ Judging will be done by a panel of experts on mobile technologies and mobile power.
 - ▼ The winning student papers may be published in *IEEE Consumer Electronics Magazine* or *IEEE Transactions on Consumer Electronics*, if appropriate.
- Students who wish to participate in the Mobile Power Design Contest must submit a participation form by 31 July 2015. (See “IEEE Mobile Power Design Contest Application.”) All contestants will be responsible for their own travel to participate in the contest.

IEEE Mobile Power Design Contest Application

Please submit this form by 31 July 2015 to Tom Coughlin at tom@tomcoughlin.com.

Name _____

School _____

School location _____

Year in college _____

E-mail address _____

Title of your design project _____

Description of your design project:

Which design contest(s) will you be entering?

San Jose, California

Dublin, Ireland

IEEE CE Society Future Directions on Internet of Things Group Activities for 2015

By Soumya Kanti Datta

The IEEE Consumer Electronics (CE) Society has formed future directions committees to address the near- and long-term trends in various consumer electronic fields. One of the committees focuses on the Internet of Things (IoT), which is receiving

increasing interest from industry, academia, and various other stakeholders. IoT-based systems and products are being rolled out to the real world. LG U+ and SK Telecom of South Korea have already announced commercial deployments of IoT platforms based on oneM2M standard recommendations [1]. The IoT group recognizes the benefits IoT can bring to business entities

and end users. The group is also working toward encouraging a consumer-centric (CC) approach in developing IoT platforms and applications. This article reports the planned activities of the group for 2015. See “Success Stories from the IEEE CE Society Future Directions Committee on IoT” for highlights of the group’s activities in 2014.

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