

Potential Collaboration Between EPS and New IEEE Future Directions Initiatives

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The IEEE Future Directions Committee (FDC) was established to anticipate and determine the direction of new and emerging technologies, spearhead their investigation and development by IEEE, and drive them to maturity within the IEEE infrastructure. FDC also serves as a liaison to foster collaboration among the different Societies and Councils.

As a new member of FDC, I would like to point out two new Initiatives that have a large packaging aspect. Collaboration between the EPS community and these Initiatives would be mutually beneficial: conference participation, webinars, panels, exchanging of speakers, and roadmap contributions.

Smart Lighting: <https://cmte.ieee.org/futuredirections/projects/smart-lighting/>

This Initiative aims at building a community of experts (academia, industry, government) to advance the knowledge in Sustainable Smart Lighting Systems to better serve humanity. Its first workshop (virtual event) held in 2021 attracted over 400 registrants with diverse regional representation. The next workshop (IEEE Sustainable Smart Lighting World Conference and Expo) will be held on June 8-10 in Bombay, India. A “Let’s Make Light” competition looking for lighting system designs for extreme affordability has been initiated to spur more interest with three categories: sustainable technology, sustainable business models, and sustainable implementation.

If interested, contact the following folks: Prof. George Zissis (Chair; georges.zissis@laplace.univ-tlse.fr) and Carole Graas (IEEE Lead; c.graas@ieee.org).

Wireless Power Technologies: <https://wpt.ieee.org/>

WPT’s vision is to “wirelessly supply energy to electrical devices and system.” Inductive coupling has seen widespread success with market products and existing standards. Newer Far-field WPT and capacitive coupling are active research areas with new R&D and governmental funding. In the longer term, explorative efforts are already looking at emerging wireless power solutions where power can be beamed directly to distant locations and devices as needed. WPT currently has about 40 core members grouped in teams with activities in conference organization, WPT school, white papers and roadmaps, and a global student WPT competition.

If interested, contact the following folks: Hooman Kazemi (Co-Chair; Hooman.Kazemi@raytheon.com) and Carole Graas (IEEE Lead; c.graas@ieee.org).