IEEE 802 PLENARY

TUTORIAL SESSIONS

March 13, 2023 - Salon West at the Hilton Atlanta

HTTPS://WWW.IEEE802.ORG/802TELE_CALENDAR.HTML

SESSION 1 **6:00 PM-7:20 PM EASTERN TIME**

TITLE OF TUTORIAL: 802 Standards on Light Communications

NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:

Presenter Name	Affiliation	Email Address
Volker Jungnickel	Fraunhofer HHI	volker.jungnickel@hhi.fraunhofer.de
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ABSTRACT: IEEE 802 recently finished new standards for optical wireless communications. 802.15.13 introduced a new MAC and two PHY layers enabling high reliability, low latency, and low power transmission for industrial wireless applications, and 802.11bb defines how to reuse the 802.11 MAC and OFDM-based PHYs over optical links, aiming at large-volume applications e.g., in enterprise and home scenarios. The tutorial presents major use cases, technical solutions, and recent technology demos in a variety of applications.

SESSION 2 **7:30 PM-8:50 PM EASTERN TIME**

TITLE OF TUTORIAL: IEEE SA Open

NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:

Presenter Name	Affiliation	Email Address
Robby Robson	**Eduworks Corporation**	**robby@ieee.org**
Boris Bellalta	**UPF Barcelona**	**boris.bellalta@upf.edu**

ABSTRACT:

This tutorial introduces Open Source at IEEE with an emphasis on its use in standards. Topics include

Open Source and Standards

This portion addresses what is meant by "open source," how open source development compares to standards development, and how open source can be used in conjunction with standards. Uses covered include (a) requiring specific open source products to be used to conform to a standard; (b) informatively referencing open source in a standard; (c) using open source projects to evaluate approaches during standardization; (d) creating open source conformance tests; and (e) publishing open source reference implementations to aid adoption. Examples will be given of each such use, with an emphasis on IEEE standards.

Open Source Projects at IEEE

This portion addresses how Open Source is governed and organized by the IEEE SA, how to start and organize an IEEE SA Open Source project related to an IEEE standards project, and how to start and organize open source projects that promote industry or humanitarian interests but are not related to a specific standard. This portion will optionally cover how SA Open relates to the IEEE Standards and Technology Organization (ISTO) and connects with the broader open source community.

Open Source Infrastructure at IEEE

This portion addresses the use of the opensource.ieee.org GitLab platform and related tools. Topics include getting an account; Contributor License Agreements; navigating GitLab (an introduction for non-developers); available open source tools (e.g., Mattermost, Big Blue Button, Kubernetes); and the services that can be obtained via the IEEE SA. To the extent feasible, this portion will include demos, walkthroughs, and examples.

Q&A

We plan to use Slido (or equivalent) to enable attendees to pose questions from their smart. Clarifying "what is" and short "how to" questions will be answered during the segments. Questions that involve longer discussion will be held until the end. There will be at least ten minutes reserved for the latter.

SESSION 3 **9:00 PM-10:30 PM EASTERN TIME**

TITLE OF TUTORIAL: No Tutorial Scheduled at this Time

TUTORIAL ROOM – Salon West, Hilton Atlanta