IEEE ComSoc Technical Committee on Power Line Communications (TC-PLC)

Meeting September 27, 2023 (hybrid), 16:30 (CEST)

Agenda

1. Approval of the agenda

2. Approval of the previous meeting minutes

3. Report on WSPLC 2023 (new)

4. Report on activities to increase the exposure of the TC

5. ANC report on TC-PLC awards

6. Discussion on technical problems to be solved in PLC networks and the evolution of next generations of PLC technologies

7. Any other business

Please make sure to sign up for the meeting by typing your "FirstName, LastName, Affiliation, Email" in the chat

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2. Approval of the previous meeting minutes

Last meeting: May 12, 2023 (virtual)

IEEE Communication Society Technical Committee on Power Line Communications (PLC)

Meeting, 12 May 2023

Date: May 12, 2023
Time: 17:00 (CET)
Location (virtual via Google Meet)

Attendance

Virtual (11)

Francisco Cañete	Ralf Lehnert
Anil Mengi	Alfredo Sanz
Scott Willy	Andrea Tonello
Markus Rindchen	Lutz Lampe
Thokozani Shongwe (Secretary)	Gerd Bumiller
José A Cortés (Chair)	

Opening remarks

Chairperson (José A. Cortés) – the main reason of the meeting is the decision to merge ISPLC and SmartGridComm.

Agenda

1. Approval of the agenda

Approved without objection.

2. Approval of the previous meeting minutes

Two amendments were made: TPC instead of TC; one member was not included in the list of attendees. Then the minutes were approved.

3. Decision on the proposal to merge ISPLC and SmartGridComm

(a) Chairperson (José A. Cortés) introductory remarks:

- The amount of submissions to ISPLC is decreasing as well as the community.

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3. Report on WSPLC 2023 (new)

WSPLC 2023: 27-28th September 2023, hosted by PPC in Mannheim (Germany)

Thanks to PPC for organizing this event!

-30 registered attendees: 10 academia (33.33%) + 20 industry/gov (66.67%)
20 Europe (63.67%) + 8 Asia (26.67%) + 1 North America (3.33%) + 1 Africa (3.33%)

-8 presentations (1 dropped out due to illness)

-12 presenters (including speakers of round tables)

-2 sponsors (PPC and Panasonic & HD-PLC)

-1 keynote sponsor (Panasonic)

-2 round table discussions

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4. Report on activities to increase the exposure of the TC

- Planned activities:
  - Student competition: call sent to companies & alliances. Under discussion with G3-PLC Alliance.
  - Webinar on PLC jointly organized with the TC on Smart Grid Communications: October 6, 2023. 15:00-16:30 (CEST).

Free virtual event

Webinar on the Potential of Power Line Communications for Smart Grid, Residential and Industry Applications

Organized by the IEEE ComSoc Technical Committee on Power Line Communications and the Technical Committee on Smart Grid Communications

IEEE **ComSoc** *IEEE Communications Society*

Thanks to Andrea, Cédric and Marcos for their willingness and committment!

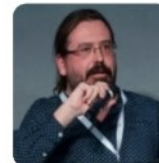**Speakers**

Andrea M. Tonello
University of Klagenfurt, Austria. Professor of Communications and Embedded Systems

Cédric Lavenu
Expert Research Engineer at EDF-R&D. WS1 Chairperson at the G3 Alliance, CENELEC TC219 (Mains communicating systems) Chairperson

Marcos Martínez
Director of Standards Engineering. Connectivity And Access Business Unit - MaxLinear

Moderator

José A. Cortés
Universidad de Málaga, Spain. Associate professor at the Communications and Signal Processing Lab of the Telecommunication Research Institute (TELMA)

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5 . ANC report on TC-PLC awards

- TC-PLC Awards
  - TC-PLC Outstanding Service Award
  - TC-PLC Inter-disciplinary Research and Application Award

- Gap in giving awards due to COVID. Now giving the 2021 awards.

- 2021 Awardees:

  - **TC-PLC Inter-disciplinary Research and Application Award: <u>Dr. Alberto Sendin</u>**, for his long record of contributions to the analysis, design, deployment and standardization of PLC technology. In particular, he was instrumental in the promotion, at an international scale, of both broadband and narrowband PLC technologies for various applications ranging from Internet access, in the early years, to smart grid use cases.

  - **TC-PLC Outstanding Service Award: <u>Prof. Moises Ribeiro</u>** for the organization of one edition of the IEEE ISPLC conference and his effort to promote TC-PLC activities in Latin America.

- Awards Subcommittee (AS)

Cédric Lavenu (Chair)
Andrea Tonello
Bamidele Adebisi
Gautham Prasad
George Hallak

Thanks!

Congratulations and thanks!

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6. Discussion on technical problems to be solved in PLC networks and the evolution of next generations of PLC technologies

- Problem:

  – Lack of connection between technical challenges at industry and PLC research community from academia

  – Lack of clearly defined challenges prevents new researchers to enter

- We need industry and academia community to dialogue about the technical problems to be solved in PLC networks and the evolution of next generations of PLC technologies

- Possible solutions: create a small joint group (industry-academia) to elaborate a kind of survey asking industry for
  1) Current applications where your PLC technology is applied
  2) Main technical aspects/areas of improvement of your PLC technology for the applications where it is currently used
  3) List the applications in which PLC technology can be potentially applied
  4) Main technical aspects/areas that have to be solved/improved in order to use your PLC technology in the potential applications indicated in 3).
  5) Identify the main issues (regulatory, lack of inversion, immaturity/scepticism of the market, interoperability, higher cost than alternative technologies, technology limitations, etc.) that restrain the expansion of your PLC technology.

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