

IEEE IAS Industrial Power Converter Systems Department

Minutes of the 2024 IPCSD Annual Meeting (Phoenix, AZ) - October 20th, 2024

Panelists:

- **Luca Solero**, Chair of Industrial Power Conversion Systems Department
- **Luca Zarri**, Vice Chair of the Industrial Power Conversion Systems Department
- **Andy Knight**, IAS President
- **Leon Tolbert**, IAS Publications Department Chair
- **Pericle Zanchetta**, IAS Educational Department Chair and IPCSD Past-Chair
- **Emmanuel Agamloh**, IPCSD Standards Committee Chair
- **Giovanna Oriti**, IPCSD Diversity, Equity, and Inclusion Committee Chair
- **Xiaonan Lu**, IPCSD Conference Development Committee Chair
- **Rukmi Dutta**, Chair of the Electrical Machines Committee
- **Jul-Ki Seok**, Chair of the Industrial Drives Committee
- **Yongsug Suh**, Chair of the Industrial Power Converter Committee
- **Francesco Iannuzzo**, Chair of the Power Electronic Devices and Components Committee
- **Ke Ma**, Chair of the Renewable and Sustainable Energy Conversion Systems
- **John Kisacikoglu**, Chair of the Transportation Systems Committee

Attendees:

- **Fernando Briz**, Past Chair of Industrial Power Conversion Systems Department
- **Giulio De Donato**, Vice-Chair of the Electrical Machines Committee
- **Wenkang Huang**, Vice-Chair of the Industrial Power Converter Committee
- **Marco di Benedetto**, Secretary of the Industrial Power Converter Committee
- **Rakibul Islam**, Vice-Chair of the Transportation Systems Committee
- **JiangBiao He**, Vice-Chair – Conferences of the Transportation Systems Committee
- **Patrick McCarren**, Society Executive Director
- **Giacomo Scelba**, PELS TC3 Secretary (auditor without voting rights)

Meeting Start: 3:30 PM local time

Agenda Items:

1. Welcome and Opening Remarks

Luca Solero welcomed participants, presented the agenda, and requested a motion to approve the previous meeting minutes. Pericle Zanchetta moved to approve, seconded by Emmanuel Agamloh. The motion carried.

2. Welcome from the IAS President

Andy Knight provided an overview of the activities undertaken over the past two years and outlined the society's future directions:

- a. Expanding engagement with researchers in emerging, adjacent industrial fields, such as energy.
- b. Strengthening support for chapters in regions beyond North America and Europe.
- c. Encouraging the development of ideas to establish clear objectives for future investments.
- d. Announced that the next IAS Annual Meeting will take place in Taiwan in June 2025.

3. Report on IPCSD Diversity, Equity, and Inclusion Committee (DEIC)

Giovanna Oriti, Chair of the DEIC Committee, provided an update on its activities. The committee's mission is to promote and enhance Diversity, Equity, and Inclusion (DEI) practices within IPCSD and its technical committees.

The main activities planned for 2024 aim to increase the participation of underrepresented members within IAS-IPCSD through the following actions:

- Organizing Student Design Contests in Africa, India, and South America.
- Offering travel grants to underrepresented members.
- Supporting liaisons to attend local conferences and promote IAS-IPCSD.
- Collaborating with the IAS Education Department and the IAS Chapter and Membership Development Department.

The DEIC Committee has also introduced new initiatives to further its goals:

- DEIC-Sponsored Best Paper Award: Encouraging female first authors to submit their work.
- Mentorship Program: Supporting students and young engineers in their professional development.
- Outstanding Chapter Awards: Recognizing chapters that excel in promoting DEI practices.
- Outreach Activities: Promoting engineering careers in high schools, with a focus on rural areas and low-income neighborhoods.
- Virtual Technical Workshops and Webinars: Providing training for engineers in remote or underrepresented regions.
- Open Access Technical Resources: Making technical knowledge freely accessible to all.

4. Report on IPCSD Standards Committee

Emmanuel Agamloh provided updates on ongoing standards projects.

Standards Under Development:

- P2943: Energy Efficiency Test Methods for Three-Phase Variable Frequency Drive Systems.
- P2964: Datasheet Parameters and Tests for Integrated Gate Drivers.
- P114: Test Procedures for Single-Phase Induction Motors.
- P3114: Datasheet Parameters for Ultraviolet (UV) LEDs.
- P3542: Efficiency Classification for Fully Integrated Motor Drives.

- P3543: Power Quality Requirements for Fully Integrated Motor Drives.
- P3544: Data Interconnect Requirements for Power Factor Correction in Distributed Variable Frequency Motor Drives.
- P3880: System Stability of AC Power Converters in Data Centers (in collaboration with PELS).

Key Updates:

- New IAS Standards Liaison: Mike Kipness (replacing Patricia Roder).
- P2943 and P2964 received PAR extensions.
- P1812 was published in January 2024.
- P11 drafting is stalled (promoted by EMC).

5. Report on IPCSD Awards Committee

Luca Solero presented the activities of the IPCSD Awards Committee on behalf of Bob Guenther, the Awards Committee Chair.

The 2024 awardees were announced, with Mohammad Anwar (GM) receiving the IAS IPCSD Gerald Kliman Innovator Award for “the development of optimized power electronics and electric drive systems for reliable and customer-affordable electric vehicles.”

The IAS members inducted into the 2025 Fellow Class were also highlighted, along with the recipients of other IAS awards.

All Technical Committees are encouraged to promote the new deadline for Fellow nominations, set for February 7, 2025.

6. Report on IPCSD Conference Development Committee

Xiaonan Lu, Chair of the IPCSD Conference Development Committee, provided an overview of recent activities.

He highlighted the APEC Mentorship Program, which aims to support professional growth within the community. Additionally, the committee has been actively working to support the APEC Technical Committee, with the goal of formalizing IPCSD's contributions to the conference.

7. Education Department Report

Pericle Zanchetta, Chair of the Education Department, presented an overview of the department's structure and activities. The department comprises three committees: the Webinar Committee, the Tutorial Committee, and the PCDRM Committee.

- The Webinar Committee has scheduled the IAS Webinar Series, aiming to deliver at least one webinar per month.

- The Tutorial Committee is planning tutorials throughout the year, with each session lasting up to 5 hours.
- The PCDRM Committee oversees the “IEEE IAS Virtual Academy Program,” which offers certificate courses of up to 30 hours for participants.

It was also announced that, effective January 1, 2025, Nishad Mendis will assume the role of Chair of the IAS Education Department.

8. Report on IAS Editorial Meeting

Leon Tolbert, IAS Publications Chair, provided an update on key topics discussed during the editorial meeting:

- The new IEEE Journal on Wireless Power Technologies is currently undergoing the IEEE approval process, with its first issue planned for publication in 2026.
- The IEEE IAS Magazine, under Editor-in-Chief David Durocher, is exploring the possibility of making older issues of the IEEE Industry Applications Magazine available on IEEE Xplore.
- The publication cost for accepted articles in the IAS Open Journal is set to exceed 2,000 USD starting in 2025. Submission statistics were also reviewed.
- An overview of the current data for the IEEE Transactions on Industry Applications was presented, including:
 - Leadership updates and open publication costs.
 - Trends in impact factor (IF), submission statistics from 2020–2024, and the number of papers published annually.
 - Tables showing IPCSD submission data by year and decision times per committee, highlighting that IDC is the fastest and PEDCC the slowest.
- Proposed prize awards for outstanding reviewers and associate editors were introduced.
- Changes to review procedures were proposed, including:
 - Requiring a minimum of three reviews per manuscript (up from two).
 - Allowing direct submission to Manuscript Central without needing an invitation.

Additionally, the list of upcoming TIA special issues for 2025 was presented.

9. Report on Open Journal of Industry Applications

Pericle Zanchetta, Editor-in-Chief, provided an overview of the advisory and editorial board. He then reviewed the journal’s statistics, including:

- Annual submissions.
- Acceptance/rejection ratios.
- Accepted papers by country.
- Impact factor (IF) trends.

10. Red-Flag Paper Reports

Luca Zarri, IPCSD Vice Chair, provided an update on papers that have been under review by an IPCSD Technical Committee for 90 days or more without a decision. Special attention was drawn to Red Flag Papers, which have been under review for more than 180 days. It was noted that there have been no more than four such papers in the past year.

11. IPCSD Working Group for Special Issues

Luca Zarri provided an overview of the IPCSD Working Group for Special Issues, which is responsible for preparing and overseeing new proposals for special issues to be published in IEEE Transactions on Industry Applications or JESTPE. The guidelines for special issue proposals were presented, and the challenges related to collaborative work among committees were discussed. Currently, four proposals are in progress, with the first expected to be submitted by the end of the year.

12. IPCSD Key Updates

Luca Solero reported:

- Delays in the IAS website restructuring (Phase 2).
- Planned 2025 initiatives, including Student Design Contests, DEIC liaisons' conference attendance, and IPCSD Reviewer Awards.

13. Technical Committee Updates

a. EMC: Slides prepared and presented by Rukmi Dutta, EMC Chair. The EMC slate of officers was reported, and a summary of the EMC meeting presentation was provided.

b. IDC: Slides prepared and presented by Jul-ki Sul, IDC Chair. A summary of the IDC meeting presentation was provided.

c. IPCC: Slides prepared and presented by Yongsug Suh, IPCC Chair. The IPCC slate of officers was reported, and a summary of the IPCC meeting presentation was provided.

PEDCC: Slides prepared and presented by Francesco Iannuzzo, PEDCC Chair. The PEDCC slate of officers was reported, noting that the vice-chair resigned in 2023, so Francesco Iannuzzo served as Chair for an additional year. A summary of the PEDCC meeting presentation was provided.

RSECS: Slides prepared and presented by Ke Ma, RSECS Chair. A summary of the RSECS meeting presentation was provided. A motion was proposed to change the committee's name from Renewable and Sustainable Energy Conversion Systems Committee to Renewable Energy Systems Committee (RESC). The motion was approved.

TSC: Slides prepared and presented by John Kisacikoglu, TSC Chair. A summary of the TSC meeting presentation was provided.

14. ECCE 2024 Update

Rolando Burgos, General Chair, reported on conference details and trends (venue, budget, registrations, papers, tutorials, sponsorships).

15. ECCE 2025 Update

Iqbal Husain, General Chairs, provided updates on preparations for ECCE 2025 in Philadelphia, including venue, key dates, and organizing committee.

16. 2025 IAS Annual Meeting Update

Luca Solero, on behalf of Avoki Omekanda, presented updates for the 2025 IAS Annual Meeting and I&CPS-Asia Conference (venue, dates, committee).

17. Motion to Adjourn

Motion by Luca Solero. Meeting adjourned at 6:00 PM.

Minutes prepared by: Luca Zarri