

Meeting Minutes, 15 October 2020

[IEEE Power Electronics Society Administrative Committee Meeting](#)

[Agenda link](#)



	Name	Title	Virtual
1	Frede Blaabjerg	President	x
	Liuchen Chang	President Elect	x
2	Liuchen Chang	VP Conferences	X
3	Brad Lehman	VP Products	X
4	Yan-Fei Liu	VP Technical Operations	X
5	Jinjun Liu	VP Membership	X
6	Mario Pacas	VP Global Relations	X
7	Johan Enslin	VP Standards	X
8	Alan Mantooth	Immediate Past President	X
9	Braham Ferriera	Senior Past President	X
10	Jian Sun	Treasurer	X
11	Patrick Wheeler	Constitution & Bylaws Chair	X
<u>TC Chairs</u>			
12	Rolando Burgos	TC 1: Technical Committee Chair Power & Control Core Technologies	X
13	Hanh-Phuc Le	TC 2: Technical Committee Chair Power Conversion Systems and Components	x
14	Antonio Cardoso	TC 3: Technical Committee Chair Motor Drives and Actuators	x
15	Alireza Khaligh	TC4: Technical Committee Chair Vehicle and Transportation Systems	X
16	Sudip Mazumder	TC 5: Sustainable Energy Systems	X
17	Jin Wang	TC 6: Technical Committee Chair High Performance and Emerging Technologies	X
18	Brian Zahnstcher	TC 7: Technical Committee Chair Communications Energy Systems	x
<u>Members at Large 2018-2019-2020</u>			
19	Marco Rivera	Member-at-Large	x
20	Johan Enslin (dup)	Member-at-Large	X
21	Helen Li	Member-at-Large	
22	Pradeep Shenoy	Member-at-Large	x
23	Brad Lehman (dup)	Member-at-Large	X
24	Noriko Kawakami	Member-at-Large	X
<u>Members at Large 2019-2020-2021</u>			
25	Vladimir Blasko	Member-at-Large	
26	Antonio Cardoso	Member-at-Large	X
27	Udaya K. Madawala	Member-at-Large	x
28	Axel Mertens	Member-at-Large	X
29	Maryam Saeedifard	Member-at-Large	X
30	Shinzo Tamai	Member-at-Large	X
<u>Members at Large 2020-2021-2022</u>			
31	Christina DiMarino	Member-at-Large	X
32	Marco Liserre	Member-at-Large	X
33	Sudip K. Mazumder	Member-at-Large	X
34	Brendan McGrath	Member-at-Large	X
35	Xiongfei Wang	Member-at-Large	x
36	Mark Dehong Xu	Member-at-Large	X

Ex Officio Members of the AdCom (Non-Voting Members)

Andreas Lindernann	Awards Chair	X
Ger Hurley	History Chair	X
John Shen	Distinguished Lecture Chair	X
Harish Krishnamoorthy	Young Professionals Chair	X
Nayara de Freitas	Student Membership Chair	X
Katherine Kim	WIE Chair	X
Don Tan	Past President	X
Rik deDonker	Past President	X
John Kassakian	Past President	X
Phil Krein	Past President	X

Staff

Mike Kelly	Society Executive Director	X
Becky Boresen	Technical Community Program Specialist	X
Megan Cichoki	Technical Community Program Specialist	X
Jane Celusak	Project Manager	X
Alicia Tomaziewski	TEC Project Manager	X
Lindsey Sorensen	Publications Administrator	X

Guests in attendance

Stephanie Butler	Po-Tai Cheng	Grahame Holmes
Issa Batarseh	Henry Chung	Chaobo Dai
Renan Barcelos	Ralph Kennel	Udaya Madawala
Fang Lou	Luiz Barreto	Robert Balog
Cian Ó Mathúna	Ernie Parker	Francisco Azcondo
Sanjib Panda	Fred Wang	Yaow- Ming Chen
Kalyan Sen	Huai Wang	

Quorum Met

Approval of Agenda

MOTION: to approve the Agenda: Pat Wheeler

Second: Alan Mantooth

MOTION: Carried

Approval of AdCom Minutes

MOTION: to approve the minutes: Liuchen Chang

Second: Johan Enslin

MOTION: Carried

Review of Remaining Action Items

Frede Blaabjerg

- <https://app.smartsheet.com/b/publish?EQBCT=da9ab7b6cb7644f2ba8ed8bc8ba60511>

President's Report

Frede Blaabjerg

Covid Impacts

- All travel stopped – PELS events are 100% virtual
 - Need to continue to plan for virtual/hybrid in 2021, maybe longer
- Important to get published conference papers – income in IEEEEXPLORE as well as citations to our papers
- PELS lost conference income – some conferences have lost money (APEC, EPE)
- PELS will also see large surplus in 2020 – will transfer money to the IEEE Foundation 250 k for supporting Empower Billion Lives 2.0

- IEEE Xplore strong in 2020 but can suffer in 2021 as companies can not afford the subscription – might have financial implication for PELS in 2021 – but hard to predict – PELS has significant income here
- IEEE memberships dropped in 202 – especially students – same for PELS – make initiatives to recover drop in 2021

Looking into 2021

- Most downloaded journal- IEEE Transactions in Power Electronics
- PELS Open Access Journal returns a surplus the first year – strong start
- Digital platform is getting stronger and stronger – new products
- Roadmaps and standards are moving strong – move to ITRW 2.0
- Mike Kelly is now Full time PELS Executive Director
- New Strategic Plan 2021-2025 to be implemented
- Operations of TC organization
- PELS TownHall Members meeting will be in a few weeks (November 2020)
- PELS Day 2021 planning has begun
- Recover membership drop
- Virtual PELS-conferences in 2021
- Work on more diversity in our organization
- Foster next generation of PELS leaders
- More membership engagement + products to serve them – why be a member of PELS ? (eg more TC's, magazine)
- Economy very strong – not a limitation for our ambitions

Treasurer's Report

Jian Sun

2020 New Initiative Requested vs. Approved

- \$247K Requested (3% of Reserve)
- \$145K Approved
- Unapproved Projects can be Funded by 50% Rule

Products perform well despite COVID-19. Conference revenue, expenses and net are all down as expected. Committee spending is significantly lower than planned. Overall net is projected to be \$1.3-1.5M excluding possible income/loss from investment.

- Products Outperformed Budget Net by \$300K
- Conference Net is Down by \$500K
- Committee Spending is Down by \$400K

PELS is doing well financially despite COVID-19

- \$1.3-1.5M Operation Net Projected for 2020
- Reserve to Exceed \$12M

MOTION TO APPROVE 2021 Draft budget

Move: Alan Mantooth

Second: Sudip Mazmunder

APPROVED

Nominations Report – Alan Mantooth

- Review of Nominations committee members
- Upcoming elections
 - VP of Technical Operations
 - VP of Conferences
 - VP of Products
 - Members at Large – 2021-2023

- Bylaws update
 - Modify the PELS Bylaws to open up the immediate past TC Chair to be eligible for VP position
 - Increases the candidate pool
 - Maintains recent PELS experience
 - More discussion at APEC 2021 – send thoughts to Alan
- Frede Blaabjerg will be Nomination Chair 2021-2022

Strategic Planning Committee

Braham Ferreira

Overview of recent LRP Process

- February – SWOT by the exec team
- June Membership survey to 250 random PELS Members
- July – Online LRP Meetings

Content of Strategic Plan

- Vision and Mission, Purpose and values, 5 strategic goals – main item for Adcom approval
- Appendix – 2021 tactical implementation planning

Strategic Goals (see document for more details)

- Membership
- Industry Content
- Agile Technical Programs
- Sustainability
- Virtual Platforms

MOTION from LRP committee to approve the 2021-2025 PELS Strategic Plan

Second: Mario Pacas

APPROVED

VP of Standards & Update on Roadmaps

Johan Enslin

2020 update

- ETTC: 389 Published, IEC interest; 393 - new PAR for update; New PAR for near-field EMC; Updates for HF inductors; Review old standards for updates – 111, 295, 388, 390, 436, 449.
- WG-P1573: Recommended Practice for Electronic Power Subsystems: Parameters, Interfaces, Elements, and Performance - PAR expires in 2020 – Move to ballot soon.
- WG-P2004: Hardware-in-the-Loop (HIL) Simulation Based Testing of Electric Power Apparatus and Controls – Approved new definitions; Individual chapter drafts expected early 2021.

Roadmaps:

- ITRW:- Podcast posted; Live Webinar; Special Issue for the Open Journal of Power Electronics; New Working Groups; Collaboration with IEEE Roadmap User Group (IRUG) and HIR (Heterogenous Integration Roadmap).
- ITRD:- Over 85 members; White Papers; Opportunities for new standards; Working Groups established; Monthly virtual meetings.

2021

- Engage standards at PELS Technical Committees (TCs) and IAB
- Involvement of PELS members in existing SCC activities
 - SCC-21 - Grid forming converter Study Group; P2800; etc.
- New Standard and Roadmap Activities from Special Projects:
 - Cyber-Physical Security Initiative
 - PELS Special Initiates for Standards Activities
 - Energy Access and Off-grid Power
- New Initiative Budget for developing training materials and special training and education session - \$10 k.
- Special standards training and invited sessions at ECCE; APEC; PEDG; eGRID; others.

Overview of Awards – IEEE level, PELS Awards, and publication awards

Motion: to revise the description of IEEE Journal of Emerging and Selected Topics in Power Electronics (JESTPE) Prize Paper Award

Motion: to introduce the IEEE Transactions on Transportation Electrification Prize Paper Awards

Motion: to introduce the IEEE PELS Technical Achievement Award for Integration and Miniaturisation of Switching Power Converters

Motion: to unify the travel refund for the following awards:

- IEEE PELS R. David Middlebrook Achievement Award
- IEEE Mc Murray Award for Industry Achievements in Power Electronics
- IEEE PELS Award for Achievements in Power Electronics Education
- IEEE PELS Harry A. Owen, Jr. Distinguished Service Award
- Richard M. Bass Outstanding Young Power Electronics Engineer Award
- IEEE Award for Achievement in Power Electronics Standards
- Modeling and control technical achievement award
- IEEE PELS Vehicle and Transportation Systems Technical Achievement Award
- IEEE PELS Sustainable Energy Systems Technical Achievement Award
- IEEE Power Electronics Emerging Technology Award
- IEEE PELS Prize PhD Thesis Talk Award
- IEEE Power Electronics Society Best Chapter + Best Student Branch Chapter Awards

Second: Hanh Phuc Le

APPROVED

VP for Membership

Jinjun Liu

Statistics

- Last 5 yrs PELS has had membership increase – reached 10,825 in 2019
- Decline in 2020- about 10%

Major initiatives in two year term

- Regional DL program
- PhD School program
- More benefits for PELS members in paper publication/review

Execution in 2020

- Better tracking for Chapters and Student chapters
- Filling and replacing some committee positions
- Regional DL program for Asia/pacific region
- 2020 Asian PhD Program
- Established guidelines for new PELS Best Practice awards

Ideas for recovering PELS Membership

- Chapter and Student Membership drive
- Post upcoming AdCom meetings and TC meetings to all Members
- Member loyalty gift
- Re-engaging senior membership program
- Free PELS membership for 1-year to PELS conferences but were not PELS Members
- Credits for PELS Members in paper publications/review

VP Products Report

Brad Lehman

Excellent – journals and magazines

IF, \$(1.5M-2020), downloads, quality, fast publication OJPPEL success; New Digital/video abstracts in TPEL,

Digital offerings/webinars/conferences are doing well and expanding: Many new initiatives:

- Expanding short video tutorials (K. Kim), full on-line courses (M. Liserre), Reviews of existing videos (P. Enjeti / A. Banerjee), 35 volunteers already
- Great member benefit
- New Products NEWSLETTER, Prize papers announced in our Transactions

Impact of Covid -19

- Delays in initiatives to expand i) social media ii) web presence but restarting now
- Impact factors will drop due to conferences (and papers) canceled in 2020 - – but rankings should remain the same
- Overall submission to journals seems unaffected by Covid so far: actually a rise in submissions so far this year...
- Other Future Risks: 2021 Magazine advertising revenue may drop (unknown); IEEE always may change reimbursement formula for each downloaded paper.

VP for Global Relations

Mario Pacas

- Due to covid19 most of the activities were frozen
- Task force for the definition of the mission and further activities was established
- The results of the discussions were considered in Five-year Strategic Plan
- Aim: each member of a group of volunteers approaches the region of the world he or she knows best and where real opportunities are seen.
 - Mexico, Russia, India, other regions

VP Technical Operations Report

Yan Fei Liu

Summary

- Going well: Webinars, Special Issue, Awards, P&P, etc.
- TC Elections (Dec 31, 2020)
 - Total candidates $\geq 1.5 \times$ Positions, ≥ 6 for 4 positions
 - Considering gender, affiliation, geography
- New TC Structures:
 - New TC leadership identified and approved
 - Oct 15: Get AdCom consent for the new leadership
 - Nov 15: Appointed by President
 - Dec 31: Policy and Procedure draft completed
 - Technical Thrust and TC core conference
 - March 2021, new TC P&P approved by AdCom
 - New TC officially established
 - Overview of proposed chairs

VP Conferences Report

Liuchen Chang

Challenges 2020 and 2021, and beyond. We had significant growth in the past. Covid affected us in a negative way (11 conferences this year – generally over 20) overall net has dropped by 20%. Looking into next year – will look to recover to average but is still challenging on the financial side due to virtual conferences.

Support and Resources for Conferences -

- PELS Tracking tool
- One stop tool for organizers – in progress
- PELS Conference Organizers Forum - Going Virtual – Best Practices and Lessons Learnt
 - First forum Sept 2, 2020
 - Next forum early 2021
- Request chairs to submit accurate conference budgeting

MOTION to approve a loan request of 16.5K for WOW 2021

APPROVED

Consent Agenda Motions passed by Conference Committee

- Motion to approve the revised proposal ITEC 2021 with new budget – TC4
- Motion to approve the proposal of PEDG 2023 including budget - TC5

Constitution and Bylaws Committee

Patrick Wheeler

Motion: To adopt the revised PELS Bylaws which include the additional TCs and the associated changes to the PELS AdCom voting rights.

- Final stage in the process
- The proposed new Bylaws were circulated to all voting members of the PELS AdCom in Advance
- The only changes to circulated copy are to correct minor typographical errors

APPROVED by voting members

Milestone Program/ PELS/History Chair

Gerard Hurley

The last History meeting opened with a presentation from Bernard Carlson, Professor of Science, Technology and Society at the University of Virginia. The presentation discussed the role of history in PELS

Milestones for consideration:

- Mercury arc rectifier
- Power MOSFET- HEXFET
- IGBT
- Modular Multilevel Converter (MMC)
- AC locomotives
- Li-ion battery, role in power conversion
- LED's electronic control
- Electric vehicles

Action Items

- Webinars: Alicia to follow up with Bernard to produce a webinar on the history of EE with emphasis on power electronics
- History Articles: GH to liaise with Ashok Bindra
- MOSFET Milestone: GH to liaise with Bill Petersen and Rudy Severns
- Electric vehicles: Alicia to liaise with Transportation Society

Financial implication of this AdCom

Jian Sun

There are no financial implications from this meeting expected to hit the PELS operating budget.

Adjourn

MOTION from To Adjourn

MOTION: Carried