minutes

Meeting of the IEEE Executive Committee		
14.05.2024	15:00-18:00	In Person: ETH AI Center, Andreas Turm Online: NA Meeting #: sent by email Meeting password: NA
Meeting called by	Almedin Kavaz	
Note taker	Alexis Ponchon (Secretary)	
Attendance report	**Attendees (ExCom officers)** 1. Almedin Kavaz 2. Alexis Ponchon (Secretary) 3. Benjamin Sawicki 4. Heinz Wipf 5. Hugo Wyss (Life Member) 6. Michel Bron 7. Patroklos Anagnostou 8. Luca Dallessandro 9. Thomas Schmid Audience: Total 35 attendees	**Apologies / Absent** 1. Thomas Hanselmann (Chair) 2. Mauro Ciappa 3. Agnieszka Zagozdzinska-Bochenek 4. Thomas Mittelholzer 5. Wladek Grabinski (invited) 6. Antoine Martin (vice chair SB EPFL) 7. Cansin Yaman Evrenosoglu 8. Heinz Mathis 9. Mohammad Azadifar 10. Urs Roethlisberger 11. Hanspeter Schmid 12. Hans-Andrea Loeliger 13. Teakwang Jiang 14. Maria-Alexandra Paun 15. Silvia Bardi 16. Steven Chi-Ching Hsu 17. Keneth Joseph Paul 18. Philip Clausen 19. Andreas Burg 20. Marco Giardina 21. Ning Wang 22. Othmar Frey 23. Rony Jose 24. Shih Chih Liu 25. Andreas Döring 26. Mathieu Coustans (Treasurer) 27. Giancarlo Ferrari Trecate 28. Marco Giardina 29. Alexandre Duval
Total attendees	35 Attendees	

minutes

Agenda

Agenda

- ▸ 15:00 - 15:30 Opening and welcome message
    - Agenda approval
    - Determine Vote Counters (All)
    - Introduction to IEEE organization (Almedin)
- ▸ 15:30 - 16:00 Keynote from Dr. Manuel Kaufmann
- ▸ 16:00 - 17:00 Reports from IEEE CH officers (Chair, Treasurer, Webmaster, Chapters, AGs)
    - General Info & Statistics
    - Discharge of Officers
    - Election of Vice Chair
    - Reports from AG and Chapters

- ▸ 17:00 - 17.30 Keynote from Dr. Imanol Schlag
- ▸ 17:30 - 18:00 Closing and Q&A

4. **Finance** (Mathieu Coustans, All)
    1. Presentation by Mathieu Coustans
    2. Revision by Benjamin Sawicki
    3. Approval by GA

5. **Discharge of Officers** (All)

6. **Election of Future Treasurer, Chair and Vice-Chair** (All)
    1. Change of election of officers from GA occurrence to IEEE election periods starting first of January.
    2. Introduction of Candidates: Benjamin Sawicki (Treasurer), Almedin Kavaz (Chair)
    3. Vice-Chair: Thomas Hanselmann

7. **Selected Reports from Chapters, Affinity & Working Groups, Officers & Student Branches**

8. **Honours of volunteers** (All)

9. **Invited Talks: Michele De Lorenzi (CSCS), Peter Messmer ("The Next Wave of Accelerated Computing", NVIDIA)**

10. **Social Event & Apero riche** (all)

1. Determine Vote Counters (All)

Notes:
Patroklos + Alexis are designated vote counters

Total attendees: 30 IEEE Members + 3 Student Members + 2 External (non-voters)

2. Acceptance of the Agenda of the current meeting (All)

Submitted by Almedin Kavaz via EventTools & via listserv (excom-ch@listserv.ieee.org).

Vote result: Accepted unanimously

3. Introduction to IEEE organization

Speaker	Almedin Kavaz, all
Discussion	

What is IEEE

IEEE Switzerland Section

- ▸ IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

- ▸ IEEE and its members inspire a global community through IEEE's highly cited publications, conferences, technology standards, and professional and educational activities.

- ▸ Key values are technical innovation, access to cutting-edge information, networking opportunities, and exclusive member benefits.

IEEE

minutes

IEEE quick facts (1)

- More than **427,000 members** in 190 countries;
  36% live in the United States (R1-R6), 64% in R7-R10.

- More than **145,000 student members.**

- **344 Sections** in 10 geographic Regions worldwide.

- **2,702 Chapters** unite local members with similar technical interests.

- **3,700 Student Branches** at colleges and universities in 100 countries.

- **3,625 Student Branch Chapters** of IEEE Technical Societies.

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IEEE quick facts (2)

- **634 Affinity Groups**, non-technical sub-units:
  Young Professionals (YP), Women in Engineering (WIE), Life Members (LM), IEEE-USA Consultants' Network.

- **39 Societies** and **7 technical Councils** representing the wide range of IEEE technical interests.

- More than **5 million documents** in
  IEEE Xplore Digital Library,
  - more than **15 million downloads** each month.

- **1,032 active standards** and more than **1000 projects** under development.

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minutes

IEEE quick facts (3)

- More than **200 transactions, journals and magazines** (1/3 of the world's technical literature in electrical engineering, computer science and electronics):
  - 17 of the 20 top-cited publications in electrical and electronics engineering,
  - 75% of the authors are from outside USA.

- More than **2,000 conferences** in 106 countries:
  - partnering with **1,300 non-IEEE entities** globally,
  - attracting more than **485,000 conference attendees**,
  - publishing over **200,000 new conference papers** annually

IEEE

IEEE organization

- Grouped into **geographic areas** reflecting where members live and work …
  - **10** Geographic Regions,
  - **344** Sections within Regions,
  - **3,700** Student Branches at colleges and universities over 100 countries.
- … and **technical areas** based on members technical fields of interest (Knowledge Communities, both global and local):
  - **39** Technical Societies, **7** Technical Councils, and **12** general technical communities,
  - **2,702** Chapters that unite local members with similar technical interests,
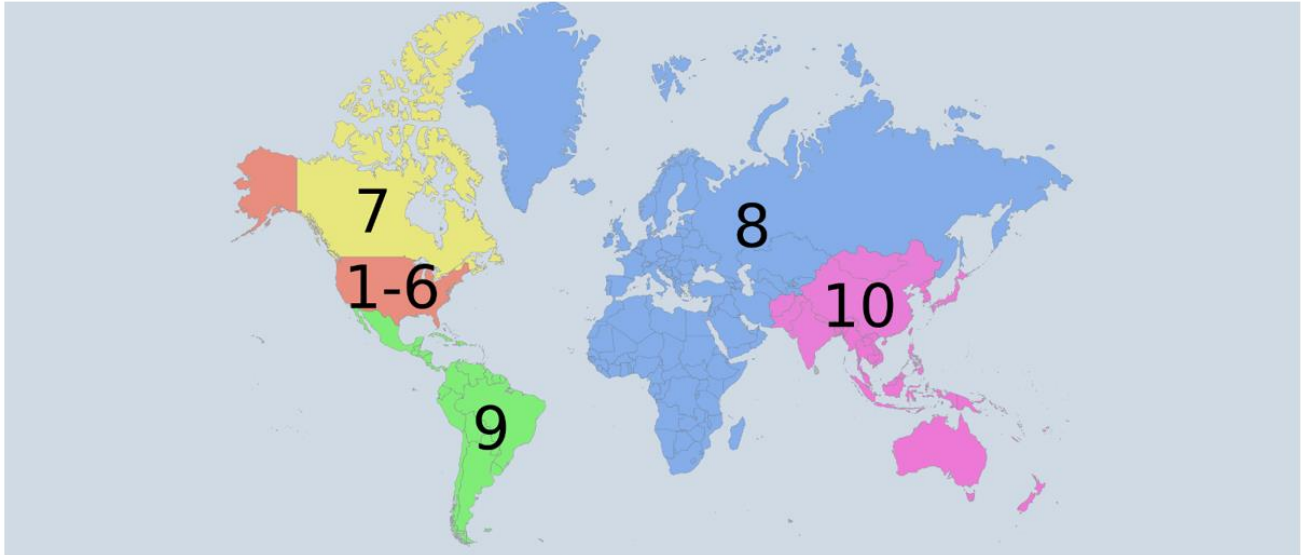 - **3,625** Student Branch chapters of Technical Societies.

IEEE

minutes

IEEE Regions and Sections

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IEEE Divisions

39 Societies and 7 Technical Councils grouped in 10 Divisions (same number as for Regions):

- I. Circuits and Devices (CAS, ED, SSC; CEDA, Nano)
- II. Industrial Applications (CPMT, DEI, IA, IM, PEL, UFFC)
- III. Communications Technology (Com)
- IV. Electromagnetics and Radiation (AP, BT, CE, EMC, Mag, MTT, NPS; CRFID, CSC)
- V. Computer (C)
- VI. Engineering and Human Society (E, IE, PSE, PC, R, SIT, TEM)
- VII. Energy and Power Engineering (PE)
- VIII. Computer (C)
- IX. Signals and Applications (AES, GRS, IT, ITS, OE, SP, VT)
- X. Systems and Control (CIS, CS, EMB, Pho, RA, SMC; Bio, Sen, Sys)

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minutes

IEEE Governance Organization

MEMBERS

Assembly

Board of Directors

Publication Services and Products Board

Educational Activities Board

Standards Association Board

IEEE-USA Board

Member & Geographic Activities Board

Technical Activities Board

Tech Cmtee

Regions & Sections

Societies & Tech. Councils

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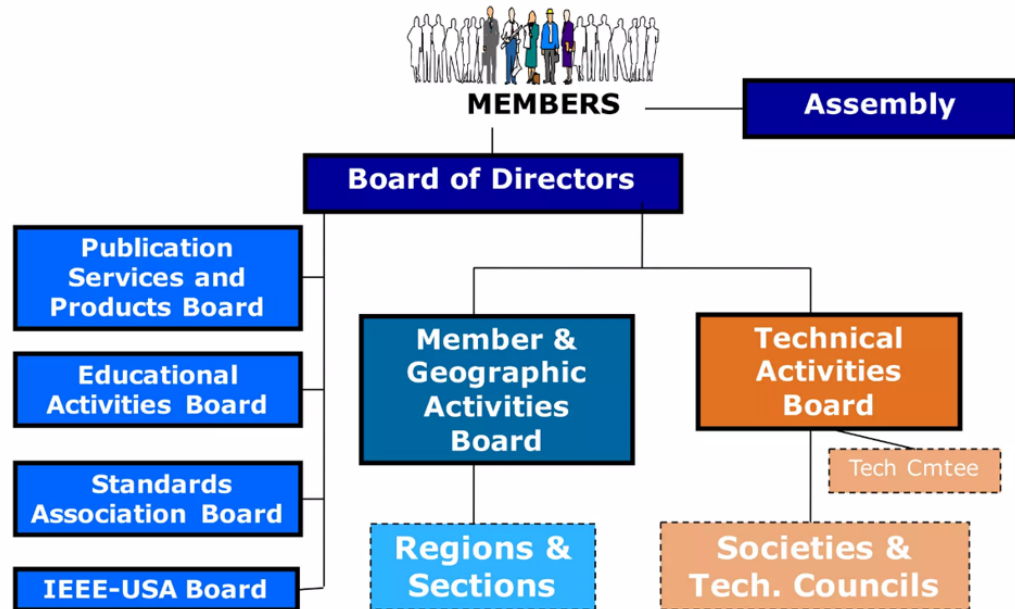
IEEE Organization

▶ IEEE Officers
  - Voting members of IEEE elects a **President** each year.
  - Serves for three years:
    • President-Elect,
    • President and CEO,
    • Past-President.

▶ President also serve on IEEE **governing bodies**:
  - **IEEE Board of Directors (31 voting members: 3 "Presidents" + 6 Vice Presidents + Secretary + Treasurer + 10 Regional Directors + 10 Division Directors),**
  - **IEEE Assembly (23 voting members: 3 P + 10 RD + 10 DD).**

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minutes

IEEE Organization

- **IEEE Major Boards** have elected volunteer leadership.
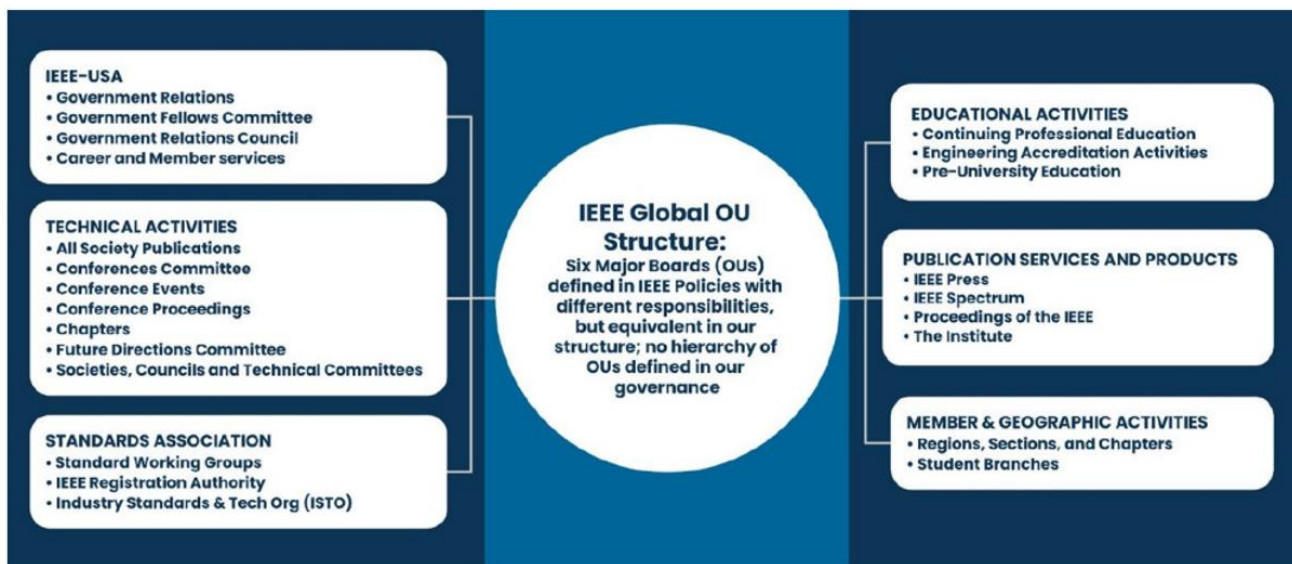- Six subordinate boards govern major areas of IEEE interest:
  - **Member and Geographic Activities (MGAB),**
  - **Technical Activities (TAB),**
  - **Educational Activities (EAB),**
  - **Publication Services and Products Board (PSPB),**
  - **Standards,**
  - **IEEE-USA.**
- There are a number of **Committees** that report either to BoD or to the Boards.

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IEEE Organization

IEEE-USA
- Government Relations
- Government Fellows Committee
- Government Relations Council
- Career and Member services

TECHNICAL ACTIVITIES
- All Society Publications
- Conferences Committee
- Conference Events
- Conference Proceedings
- Chapters
- Future Directions Committee
- Societies, Councils and Technical Committees

STANDARDS ASSOCIATION
- Standard Working Groups
- IEEE Registration Authority
- Industry Standards & Tech Org (ISTO)

IEEE Global OU Structure:
Six Major Boards (OUs) defined in IEEE Policies with different responsibilities, but equivalent in our structure; no hierarchy of OUs defined in our governance

EDUCATIONAL ACTIVITIES
- Continuing Professional Education
- Engineering Accreditation Activities
- Pre-University Education

PUBLICATION SERVICES AND PRODUCTS
- IEEE Press
- IEEE Spectrum
- Proceedings of the IEEE
- The Institute

MEMBER & GEOGRAPHIC ACTIVITIES
- Regions, Sections, and Chapters
- Student Branches

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18

minutes

IEEE Organization — IEEE Switzerland Section

- R1 9%
- R2 8%
- R3 7%
- R4 6%
- R5 7%
- R6 14%
- R7 4%
- R8 18%
- R9 4%
- R10 23%
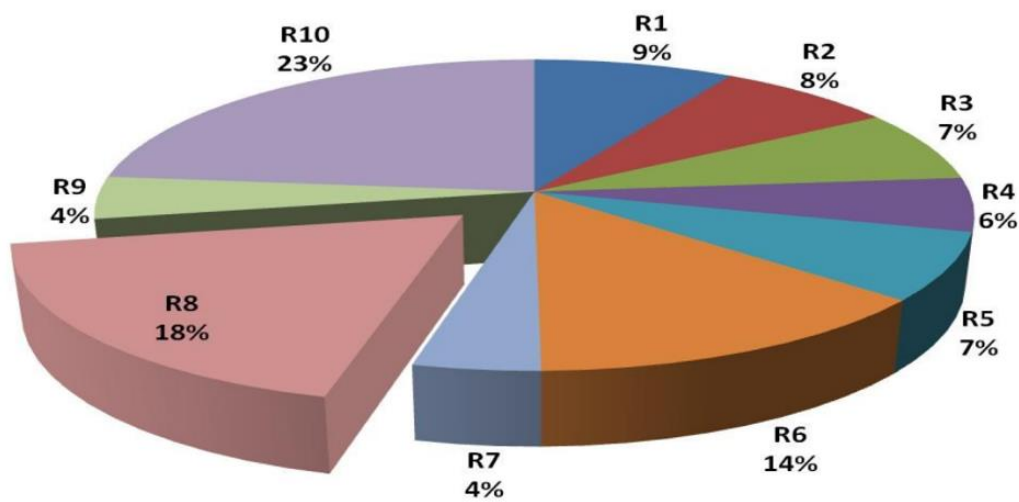
- R8 is Second largest in terms of number of members.

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Conclusions	

Action Items	Owner	Deadline

4. Invited Talks: Keynote from Dr. Manuel Kaufmann (ETH AI Center)		
Speaker	Dr. Manuel Kaufmann	
Discussion		
Conclusions		
Actions	Owner	Deadline

minutes

IEEE Switzerland Section

In numbers

- Members: 3003 (as of 15/02/2024)
- 17 technical chapters
- 3 affinity groups (Life Members, Women in Engineering and Young Professionals)
- 1 working group on "Blockchain and Decentralized Systems"
- 1 working group on "Special Interest Group on Humanitarian Technology (SIGHT)"
- 2 student branches: at ETH Zürich, EPF Lausanne

Count by Technology Focus Area

Count by Grade and Gender

20
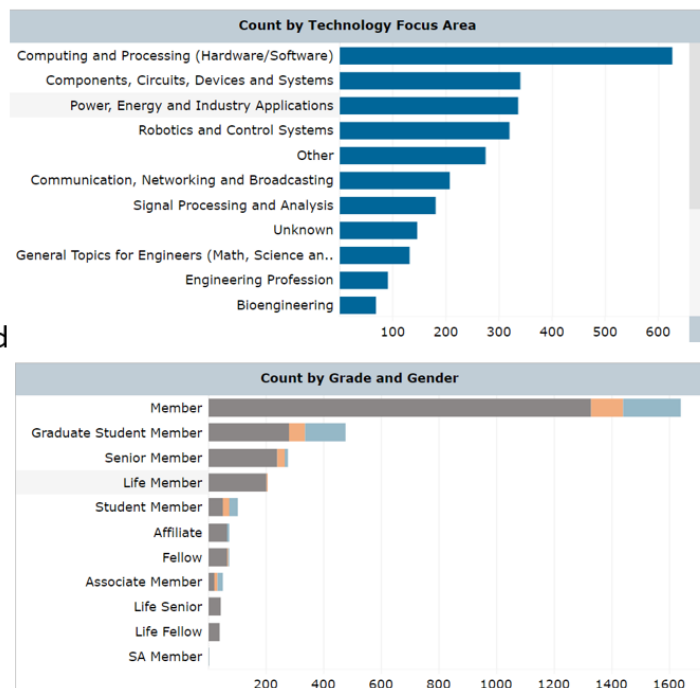
IEEE Switzerland Section

Officers Changes in 2024

- Young Professionals AG Chair – Kevin Pretorius
- Women in Engineering AG Chair - Agnieszka Zagozdzinska-Bochenek
- Industry Relations Coordinator - Hans Dieter Lang
- Professional Activities Coordinator - Madalena Sula
- Chapter Coordinator - George Papadimitriou

Events in 2024

- Already approved events: 7
- Estimated approved budget: 12 500 CHF

Vice Chair candidate - Luca Dalessandro

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Conclusions	

Actions		Owner	Deadline

minutes

Treasurer report - 2023 Review

IEEE Switzerland Section

Position	2023 Budget		2023 Closing	
Checking	CHF	49'592.53	CHF	64'106.72
Total Income	CHF	49'523.74		54'472.57
3.10 – Rebate from IEEE HQ (arrears)	CHF	32'736.90	CHF	32'736.90
3.10 – Rebate from IEEE HQ	USD	14'562.90	CHF	13' 084.85
3.10 – Rebate For Students Branches	USD	812.00	CHF	1'760.00
3.10 – Rebate For Societies	USD	0'000.00	USD	0'000.00
3.10 – Rebate For Societies	CHF	4'025.68	CHF	6'890.82
Total Expenses	CHF	44'555.00	CHF	39'958.36
4.10 – Meetings & Social Events Expense	CHF	14'000.00	CHF	26'279.13
4.80 – Student Branch support	CHF	25'000.00	CHF	13'050.45
5.20 – Travel Expense	CHF	4'000.00	CHF	382.80
4.85 – Award	CHF	1'000.00	CHF	0'000.00
5.60 – Other Management & General Expenses	CHF	400.00	CHF	0'072.00
6.21 – Membership Fee Expense	CHF	174.00	CHF	174.00
Balance (Income - Expenses)	CHF	4'968.74	CHF	14'514,19

Membership reduction ?
Chapter Maintenance (reporting events)
Exchange rate

3'080.35 SSCs Chapter of the year and rebate
496,43 : Electronics Packaging
454,9 : Aerospace Electronics
CAS …

Supported a large amount of event on the 2nd half of 2023.

Many activities In Lausanne (7'287 CHF invested in activities and committee expenses).
The YP congress was close to be positive balance (-1'763 CHF) Section funding 4'763 toward the congress.

IEEE

Treasurer report - 2024 Plan

Position	2023		2024 Budget	
Checking	CHF	64'106.72	CHF	44'106.72
Savings	CHF	00'000.00	CHF	20'000.00
Societies		-		Report rebates
Total Income	CHF	54'472.57	CHF	19'700.00
3.10 – Rebate from IEEE HQ	CHF	13' 084.85	CHF	13' 000.00
3.10 – Rebate For Students Branches	CHF	1'760.00	CHF	1'700.00
3.10 – Rebate For Societies	CHF	6'890.82	CHF	5'000.00
Total Expenses	CHF	39'958.36	CHF	19'700.00
4.10 – Meetings & Social Events Expense	CHF	26'279.13	CHF	14'700.00
4.80 – Student Branch support	CHF	13'050.45	CHF	4'000.00
5.20 – Travel Expense	CHF	0'382.80	CHF	0'500.00
4.85 – Award	CHF	0'000.00	CHF	0'000.00
5.60 – Other Management & General Expenses	CHF	0'072.00	CHF	0'200.00
6.21 – Membership Fee Expense	CHF	0'174.00	CHF	0'300.00
Balance (Income - Expenses)	CHF	14'514.19	CHF	00'000.00

Saving 1 Year of minimal operation

Responsibility of Chapters:
1. Inform Treasurer about rebate
- Request
-
Acceptance/rejection,
- Transferred.

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2023 Report approved unanimously
2024 Budget approved (1 Abstination)

minutes

Conclusions	
Comments from the audience: Q. Why are the 2024 planned expenses so much lower than last year? A. Last year, the section funded some big events (WESP in Lausanne, etc…). Budget is drafted based on the average spending of the last years. Almedin is in favor of supporting more local events (Subject to funding request and approval from ExCom members).	

Action items	Owner	Deadline
NA		

7. Discharge of Officers (All)		
Speaker		
Discussion		

We ask to vote about discharge of officers from their legal duties and any financial obligations to IEEE Switzerland:

Chair: Almedin Kavaz

Vice Chair: Thomas Hanselmann

Treasurer: Benjamin Sawicki

Secretary: Alexis Ponchon

Webmaster: Patroklos Anagnostou

Vote approved unanimously

Conclusions	Officers officially discharged.	

Actions items	Owner	Deadline

minutes

8. Election of Vice-Chair	
Speaker	Luca Dalessandro, all
Discussion	

Dr. Luca Dalessandro
Senior Member IEEE, Dr. sc. tech. ETH

❑ PhD in Electrical Engineering from ETH Zurich (2007)

❑ Several leadership Managerial Positions in Alstom, ABB, former CTO/GTM of Schaffner Group (2008-2020)

❑ Adjunct Faculty, Lecturer at Virginia Tech, ETH Zurich, FHNW.

Currently, since Fall 2020:

❑ CEO, Managing partner of the ETIX GmbH

❑ Expert at Innosuisse (EE, ENG, ICT)

❑ Senior Advisor @ Synerleap / ABB, @ Technopark Zurich, @ Runway (Technopark Winterthur)

Since 2016:

❑ Chair IEEE Industry Electronics Chapter

❑ Associate Editor IEEE Trans. Power Electronics & IEEE Trans. Industrial Electronics, IEEE Trans. JESTIE

❑ Vice-Chair from Apr. 2021 to Dec 2023

❑ Co-Chair of European PhD School in Power Electronics

https://www.linkedin.com/in/ldalessandro/

Conclusions	

Vote approved unanimously:

- Thomas Hanselmann (address: Ackerstrasse 45 - 8708 Maennedorf) to step down as Vice-Chair
- Luca Dalessandro (address: Josefstrasse 129 - 8005 Zurich) will act as new Vice-Chair

- Elected candidates become effective in their role starting January 1st 2025.
- New officers will inherit the access rights to the bank accounts of the previous officer.

Actions items	Owner	Deadline

minutes

9. Selected Reports from Chapters, Affinity & Working Groups, Officers & Student Branches	
Speaker	Almedin Kavaz, all
Discussion	

- **LMAG (Michel Bron presenting)**

IEEE Life members

LMAG Switzerland – Q1 2024

ExCom 14 May 2024

ETH AI Center, Oerlikon

◆IEEE
Advancing Technology for Humanity

29   ieee.org

First-ever Life Member Conference

Austin, Texas, 14-16 April 2024

▸ Opening by Thomas M. Caughlin, IEEE President

▸ Themes
  - Emerging technologies
  - Applications for aging populations
  - Contributions of Life Members

▸ 100 to 120 participants, mostly from R3, R5, R6

▸ 4 from Europe

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minutes

Life Member Conference

My key takeaways

Talks I liked:

▸ Human-Machine Partnerships

▸ AI for real-life applications

▸ Technology Beyond Smart Grid

▸ Impact of AI on Connected Transportation

▸ Advanced Semiconductor packaging

▸ Internet of Things

▸ Visit of 3D printed house

concerning LMAG Switzerland

▸ Oral history presentation and guidelines

▸ IEEE History team

▸ Virtual Museum

▸ Impressed by LMAG officers who had many earlier roles in their sections or regions

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▸ Co-sponsor of Stammtisch at EPFL
- 25 March 2024 – Lidar mapping : Technology and applications
- 29 April 2024 – 2D graphene pores for energy efficient carbon capture

- **SSCS (Michel Bron presenting)**

SOLID-STATE CIRCUITS SOCIETY
Where ICs are in IEEE SWITZERLAND

	Chair	Vice Chair	Industrial Relations Coordinator	Secretary
	Taekwang Jang	Michel Bron	Domenico Pepe	Mathieu Coustans

05 Technical Event / 3 Professional Events in 2020
11 Technical Event / 1 Professional Events in 2021
09 Technical Event / 3 Professional Events in 2022
04 Technical Event / 2 Professional Events in 2023
(Ph.D) Student update (To rejuvenate)
New Engagement with University of Applied Science (FH)
Engagement with Local Industry (map + advisory board)

https://www Linked in CollabraTec IEEE.tv

IEEE Tv channel in creation for the webinar records.
https://ieeetv.ieee.org/channels/sscs

News to be contributed :
-->Magazine news Posting
-->Webinar available from Society YouTube when speakers agrees

Grown membership from 155 to 207 over the past three years
Grown membership from 182 to 207 over the past year
Decline to 193 In 2024 (VUCA environment in Semi)
Special attention to take to onboard more Student (Ms, Bs) and promote more member's benefit.

➔ Highlight 2023 – Excellent congress 75th anniversary of transistor
https://ieeetv.ieee.org/video/75th-anniversary-of-the-transistor-semiconductor-industry-in-switzerland

➔ Highlight 2024 – Microelectronics Seminar Dr Erich Zwyssig Cirrus Logic in Edinburgh discussed challenges of HDMI circuits (60+

Position	2023 Budget	2023 Closing	2024 Budget
In CH Account	CHF 5'400.00	CHF 0'869.60	CHF 0'869.60
Total Income : 3.10 Rebate For Societies	CHF 3'400.00	* CHF 3'375.00	**CHF 0'295.00
Total Expenses : 4.10 Meeting & Social	CHF 4'500.00	CHF 7'905.40	CHF 1'100.00

➔ Event planning
➔ Lecture Prof. Zito, ICs for Quantum computing June (TBC)

minutes

- **AES (Heinz Wipf presenting)**

Invited talks AES10 AESS. | IEEE Aerospace and Electronic Systems Society

- Sept 2023 "Gravity-Modeling Considerations in High-Integrity Inertial Systems" by disting. lecturer Prof Dr Braasch Ohio Univ

- Feb. 2024 ‚Extending the use of GNSS technology to cislunar space' by Dr. Cyril Botteron, SpacePNT SA

Promotion actions AES10 IEEE.CH

swissmem – Swiss Space Industries Group

- 16.-17. Nov 2023:   Gathering Swiss Space Industries Group ETH/Google
- 15. April 2024:   Space at Huber & Suhner Herisau

Swiss Association of Aeronatical Science

08. Nov 2023:   AES10 + GRSS IEEE-CH Sponsorship Ackeret-Preis

FH Students – Fachhochschule Nordwest FHNW

06. Dec 2023:   Staff and lecturers el eng depmnt – on space projects

ETH Students - ARIS Team + Akademischer Aviatikverein ZH

10. Jan 2024:   Sponsoring Project Gathering – AES10 presentation

minutes

- **IES (Luca Dalessandro presenting)**

Reports from Chapters

Industrial Electronics Society (IES) Chapter.

Chairman: Luca Dalessandro

2 Events for 2024 in preparation

▶ **European PhD School in May 2024, Angevin Castle, Italy**

Luca Dalessandro is Co-Chairman of the Event

- *Ongoing*: organisation of the 2024 Edition of the "European PhD School on 'Power Electronics, Electrical Machines, Energy Control and Power Systems", 27 - 31 May 2024 in Gaeta, Italy. The attendance of 120 PhD Students in the disciplines of Electrical Power Engineering from Universities all over Europe is expected.

- https://www.ecpe.org/events/european-phd-school/european-phd-school/

▶ **IES Workshop on "Innovation & Entrepreneurship for Science-based and Engineering Curricula" in September 2024, Technopark Zurich**

The workshop is designed to address the integration and fostering of innovation and entrepreneurship into the curricula of a wider array of academic disciplines within the STEM fields. Best practices and entrepreneurial success stories will be presented to inspire the audience to transform innovation into a value generating venture.

Industrial Electronics Society (IES) Chapter: Luca Dalessandro

- *Successfully closed*: online Workshop "Rail technologies accelerating the energy transition", in cooperation with PES Chaper, 20 February 2023

- https://events.vtools.ieee.org/m/335235

minutes

Conclusions			
Actions items		Owner	Deadline

10. Invited Talks: Keynote from Dr. Imanol Schlag

Speaker	Dr. Imanol Schlag (ETH AI Center)		
Discussion			
Conclusions			
Actions		Owner	Deadline

11. Social Event & Apero riche (all)

Speaker			
Discussion			
Conclusions			
Actions items			
•			

12. Any Other Business

Speaker	all		
Discussion			
Conclusions			
Actions items		Owner	Deadline