

## Switzerland

**Maria-Alexandra Paun**

### Section Vitality

*Please provide information about the date of last Section elections, date of next elections, and do you have the practice of Vice-Chair becoming the next Section Chair. Section ExCom meetings (list them and provide brief summary if appropriate). List the activities carried out to retain and recruit members and the results obtained.*

- Date of last Section elections: 26.03.2019
- Date of next Section elections: 27<sup>th</sup> of April 2021
- Yes, we have the practice of Vice-Chair becoming the next Section Chair.
- Obviously, due to lack of face-to-face meetings, we had less chance to recruit members in person. However, via personal network of our ExCom members we were able to find a new Secretary and new Webmaster.
- Section Meetings: 23.01.2020 (ETHZ), 31.03.2021 (online), 22.06.2021 (WebEx together with our very first online General Assembly GA 2020), 28.09.2020 (WebEx), 19.01.2021 (WebEx). All details of these ExCom meetings have been reported in vTools.
- Webmaster Activities Summary (Patroklos Anagnostou)

The past activities have been revolving mainly around getting to know the website and its underlying technologies and tools. A list of open points and potential improvements has been kept and being updated. There are regular minor content updates that have to do with broken links, announcements and correct display of current officers and chapters. Occasionally requests are being redirected to the Geographic Activity web support. It is planned to explore more the statistics, if they can be made available, of who spends most time and where in the website to better focus future efforts in improving those aspects.

### Students

*List of Student Branches (SB) in your Section, the newly formed or dissolved SBs, if any since the last meeting reporting (Oct 2020). List the student meetings held and Section activities addressed to Students and Young Professionals.*

1. EPFL Student Branch (their activities at <http://ieeee-epfl.ch/>)
2. ETHZ Student Branch (their activities at <https://edu.ieeee.org/ch-ethz/>)
3. USI Lugano Student Branch was sadly dissolved in 2020.

Our ExCom is supporting the two existing Student Branches in various events and activities.

### Affinity Groups

*List of Affinity Groups (YP, LM, WiE, SIGHT, etc.), list of SB AGs, newly formed or dissolved AGs/SB AGs, if any since the last meeting reporting (Oct 2020). List the activities intended to support affinity groups.*

1. YP (Chair Joana Machado)
2. LM (Chair Hugo Wyss)
3. WIE (Chair Maria-Alexandra Paun)
  - Presence at IEEE Switzerland WIE booth at EPFL (Rolex Learning Center) on the International Women's Day celebration (05.03.2020) <https://www.epflalumni.ch/nos-evenements/international-womens-day-shoot-for-the-moon/>
  - Technical talk at IEEE Connection Experts Series : Dr. MA Paun delivered a talk entitled “Analysis and Modeling of Medical Electronic Devices using three-dimensional simulations.” (24.06.2020) [https://www.youtube.com/watch?v=i0kQU\\_m\\_7ps](https://www.youtube.com/watch?v=i0kQU_m_7ps)
  - IEEE WIE ILS 2020, virtual/online from Kampala, Uganda: IEEE Women in Engineering (WIE) International Leadership Summit (ILS), virtual/online from Kampala, Uganda: Dr. MA Paun was an invited speaker in the Leadership Track (16 10 2020) <https://attend.ieeee.org/wieils-uganda-2020/speakers/>
  - Empowering Women Summit 2020, virtual/online from Turkey : Empowering Women (EMW) Summit 2020, virtual/online from Turkey: Dr. MA Paun delivered a technical talk entitled ”Analysis and Modeling of Medical Devices” <https://www.ieeee-wie-ews.com/schedule-1> & <https://www.youtube.com/watch?v=8o1nrZMm3xY>
  - IEEE WIE R8 Online Yearly Meeting 2020 (13 05 2020): IEEE WIE R8 Online Yearly Meeting 2020 organized by R8 WIE Committee with Chair Ana Cigaran Romero, All R8 Section WIE Affinity Groups Chairs have been invited to join. Dr MA Paun was present as Chair of Switzerland WIE and as Member of R8 Committee.
4. SIGHT (Chair: Ning Wang, newly founded in April 2020)
  - As a relatively new SIGHT group, we strive to address the key aspects of the UN SDGs, and align our best capacities to achieve these goals through prospective SIGHT projects. Our approach is fundamentally

that of co-creation in, for, and with the local communities, who are positioned at the very centre of our projects on a need-based and value-driven ground. Our vision is to bring substantive positive forces for change to the local communities we work with, enabling and empowering them through the potential power of humanitarian technology.

- NanoTalks June 2020, by Ning Wang (YouTube stream) with 2 talks: “We live on hope: The ethics of using drones in post-disaster Nepal” (Ning Wang) and “Restrictions on reproductive medicine in Switzerland” (Valentina Christen-Zihlmann)

All our activities are intended to support our chapters and affinity groups. We provide them with financial support.

### Chapters

*List of Chapters and SB Chapters in your Section, the newly formed or dissolved Chapters, if any since the last meeting reporting (Oct 2020). Indicate how many have reported on time and received rebate. Highlight some of the activities.*

Our chapters are:

- CH08029 Switzerland Section Chapter, SIT30 (min number of meetings successfully met, rebate received)
- CH08082 Switzerland Section Chapter, RL07 (min number of meetings successfully met, rebate received)
- CH08319 Switzerland Section Chapter, EP21 (no meetings reported in 2019)
- CH08369 Switzerland Section Chapter, PE31 (min number of meetings successfully met, rebate received)
- CH08468 Switzerland Section Chapter, E25 (min number of meetings successfully met, rebate received)
- CH08653 Switzerland Section Chapter, EMB18 (min number of meetings successfully met, rebate received)
- CH08772 Switzerland Section Chapter, IE13 (min number of meetings successfully met, rebate received)
- CH08774 Switzerland Section Chapter, AES10 (min number of meetings successfully met, rebate received)
- CH08806 Switzerland Section Chapter, GRS29 (no meetings reported in 2019)
- CH08857 Switzerland Section Chapter, PEL35 (min number of meetings successfully met, rebate received)
- CH08875 Switzerland Section Chapter, CEDA44 (no meetings reported in 2019)
- CH08996 Switzerland Section Chapter, SSC37 (min number of meetings successfully met, rebate received)
- CH08026 Switzerland Section Jt. Ch, SP01/C16/COM19/IT12 (min number of meetings successfully met, rebate received)
- CH08027 Switzerland Section Jt. Chapter, AP03/MTT17/EMC27 (min number of meetings successfully met, rebate received)
- CH08028 Switzerland Section Jt. Chapter, CAS04/ED15 (min number of meetings successfully met, rebate received)
- CH08869 Switzerland Section Jt. Chapter, CSC41/UFFC20 (no meetings reported in 2019)
- Andreas Burg: The new Swiss Chapter of the Council on Design Automation (CEDA) plans to celebrate its inauguration during 2021 after this activity (planned for 2020) had been postponed due to the CORONA crisis.
- Mathieu Coustans: Swiss Solid State Circuits Chapter (SSC37)  
Events of 2019 were reported in time and we collected our chapter got the base rebate (200\$) additionally the timeliness bonus (20\$), and the activity bonus (75\$). Note that this is a total of 295 \$ which would not cover the WebEx or Zoom license of this year of remote event. Further support would be appreciated to expand activities. Since Oct 2020 6 Webinar took place, we are proud of the joint effort around IEEE day and that the PhD Student update is taking place, with student providing with local audience on what they are looking into. We went through an Ad/hoc vote to appoint an officer to handle industry relations.

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### Industry

*List the activities carried out to foster relations with Industry and the results obtained.*

The section is co-organizer to a series of multi-speaker events for professional engineers, usually a mixture of speakers of both the industry and academia. In 2020 the event was dedicated to the topic of Blockchain with a respectable number of 150 participants. In 2021 the focus of the talks will be on Artificial Intelligence.

### Activities since the last report

*Highlight some of the activities in your Section, with special attention to the things that work well, and things that don't, so that your acquired know-how can be used by other Sections.*

- October 2020

[IEEE Swiss CAS/ED Sponsored Talk](#)

October 30, 2020 @ 4:00 PM - 5:00 PM

Virtual: <https://events.vtools.ieee.org/m/242719>

- November 2020

[Computational Electrodynamics: From Metamaterials and particle accelerators to biomedical applications](#)

November 11, 2020 @ 11:00 AM - 12:00 PM

Virtual: <https://events.vtools.ieee.org/m/244043>

[EMP/IEMI Governance and Mitigation Strategies – A LIVE Webinar](#)

November 11, 2020 @ 4:30 PM - 6:00 PM

Virtual: <https://events.vtools.ieee.org/m/243441>

[IEEE SWISS SSC TALKS \(WEBINAR\) / PhD Student Update / Low Power Oscillators](#)

November 26, 2020 @ 6:00 PM - 6:45 PM

Zurich, Switzerland, Virtual: <https://events.vtools.ieee.org/m/247516>

- December 2020

[EMP/HEMP Detection, Protection, and Resilience Strategies – A LIVE Webinar](#)

December 10, 2020 @ 5:00 PM - 6:30 PM

Virtual: <https://events.vtools.ieee.org/m/249021>

[Role model event for Women in Engineering in Switzerland](#)

December 15, 2020 @ 4:00 PM - 5:00 PM

Zurich, Switzerland, Virtual: <https://events.vtools.ieee.org/m/249368>

[Emerging Technologies: The Impact of Modern Robotics, Data Analysis, and CEM Simulation on Antenna and EMC Measurements in 2021 and Beyond!](#)

December 15, 2020 @ 5:00 PM - 6:30 PM

Virtual: <https://events.vtools.ieee.org/m/249145>

- January 2021

[IEEE SWISS SSC Distinguished Lecture \(WEB INAR\) / Integrated Power Management Circuits for Energy-Efficient IoT Systems](#)

January 28 @ 9:00 AM - 10:15 AM

Virtual: <https://events.vtools.ieee.org/m/254880>

[MHEALTH4AFRIKA – Lessons learnt and good practices from co-design technology solutions for resource constrained environments \(SSIT distinguished lecture\)](#)

January 28 @ 6:00 PM - 7:00 PM

Virtual: <https://events.vtools.ieee.org/m/252718>

- February 2021

[IEEE SWISS SSC Ph.D Student Update \(WEB INAR\) / 1.25 GHz Fully Integrated DC-DC Converter Using Electromagnetically Coupled Class-D LC Oscillators](#)

February 25 @ 6:00 PM - 7:00 PM

Virtual: <https://events.vtools.ieee.org/m/256209>

### Planned activities

*Highlight some of the future activities and initiatives in your Section.*

- [SWISS IEEE PELS EVENT: “Power Electronics at CERN”](#) March 11 @ 5:00 PM - 7:00 PM Virtual: <https://events.vtools.ieee.org/m/261392>
- [IEEE SWISS SSC Distinguished Lecture \(WEB INAR\) / An Organic-Photoconductive-Film CMOS Image Sensor’s Advanced Technologies](#) March 25 @ 10:00 AM - 11:15 AM Virtual: <https://events.vtools.ieee.org/m/254883>
- [Joint Administrative Meetings of the BENE LUX/GERM/SWITZ/AUSTR/POL Chapters for Coordination of Events](#) April 8 @ 10:00 AM - 12:00 PM Virtual: <https://events.vtools.ieee.org/m/264396>
- We will have our General Assembly on 27<sup>th</sup> of April online and we will also have elections.

### How Region 8 can be of help to your Section, members, and activities

*List any challenges your Section is facing and what support is required from the Region 8. Please, also, give us your suggestions for agenda items that you want to be discussed during the R8 Committee meeting.*

Provide some guidance on new activities to organize in our Sections.

### Any other issues of interest

We always get the question why there is a Women in Engineering membership fee, but no Young Professionals fee. We would like to have a clear answer to provide to people.