

**IUPAP Commission on Semiconductor Physics (C8)**  
**Report on Activities in 2018/2019 for the October, 2019 C&CC Meeting**

Chair	Rolf Haug	Germany	haug@nano.uni-hannover.de
Vice-Chair	Amalia Patanè	United Kingdom	amalia.patane@nottingham.ac.uk
Secretary	Young Dong Kim	Korea	ydkim@khu.ac.kr
Member	Qi-Kun Xue	China	qkxue@mail.tsinghua.edu.cn
Member	Gloria Platero	Spain	gplatero@icmm.csic.es
Member	Yasuhiko Arakawa	Japan	arakawa@iis.u-tokyo.ac.jp
Member	Håkan Pettersson	Sweden	hakan.pettersson@hh.se
Member	Maria Grazia Grimaldi	Italy	mariagrazia.grimaldi@ct.infn.it
Member	Mikhael M. Glazov	Russia	glazov@coherent.ioffe.ru
Member	Uli Zülicke	New Zealand	uli.zuelicke@vuw.ac.nz
Member	Yong P. Chen	United States	yongchen@purdue.edu
Member	Rodrigo B. Capaz	Brazil	capaz@if.ufrj.br
Member	Andrew Sachrajda	Canada	andy.sachrajda@nrc.ca
Member	Elvira Fortunato	Portugal	emf@fct.unl.pt

The last report about the activities of C8 was submitted in October 2018.

There was email exchange among the members. There was also a Skype meeting with secretary, vice-chair, and chair on Wednesday, April 17<sup>th</sup> 2019. A meeting of the whole commission took place on Tuesday, July 23<sup>rd</sup> 2019 where most of the members participated via Skype. 11 members were present in the meeting (out of the 14 members). Although 2 members had problems with Skype and could not follow the meeting during its whole duration of about one and a half hours, the majority of the members had very good video connections and the meeting went almost as smoothly as a meeting with everybody being present in person. The impression was that one could have meetings organized in such a way more often. The smooth run of the meeting was especially due to the efforts of the secretary of the commission.

One of the main tasks of C8 is the allocation of the organizers and places of the International Conference on the Physics of Semiconductors (ICPS) which takes place every second year.

In 2020 it will be organized in Sydney and the commission was informed about the present status of the preparations by Sven Rogge. The commission learnt that Qantas will give a 10 percent discount for ICPS participants and that the tickets for the banquet will be not included in the registration fee. There will be cheap accommodation for students available. The commission asked about the reasoning for the given estimate of the number of

participants. ICPS 2020 took ICPS in Brazil as a model. Sven Rogge mentioned also that there are large conferences with more than 2000 participants e.g. in material science happening in Sydney. The organizers of ICPC are not aware of any satellite conferences up to now. The commission asked them to put the corresponding web links on the ICPS web site when they will be available. The commission knows about two satellite conferences: ICSNN will take place in Vietnam the week before ICPS; HMF 24 will take place in Hongkong in the week after ICPS. The commission asked the organizers of ICPS to put the announcement of the YSP prizes on their website and to allow enough time for the corresponding award session. The commission is very happy with the planning of ICPS 2020 in respect to female participation in the committees, invited talks etc.

The commission discussed about the application of ICPS 2020 for IUPAP support. The commission ranked it as a type A conference.

The commission was also discussing about proposals for ICPS 2022.

During the meeting in July 2019 Pawel Hawrylak explained a proposal for organizing ICPS 2022 in Ottawa, Canada. The commission was very happy with the proposal and there were almost no open questions after his presentation. In 2018 there was a proposal for organizing ICPS 2022 in Pittsburgh, USA. But in the meantime the proposal was withdrawn by David Snoke who suggested it in 2018. David Snoke was asking the commission about organizing ICPS 2022 at a nicer place in the US as e.g. in Asheville. The commission discussed about this but was not encouraging him to plan in this direction in view of the very nice proposal of Ottawa. The commission decided that Pawel Hawrylak should continue in planning for ICPS 2022 in Ottawa and should give an update about the details of planning during ICPS 2020 in Sydney.

The announcement of IUPAP Young Scientist Prizes for Semiconductor Physics 2020 was also discussed during the meeting in July 2019. The distributed announcement with a deadline of December 31st 2019 was approved. It will appear on the IUPAP website and on the ICPS website. All members should also distribute it in their respective physics communities.

The organizers of ICPS 2018 in Montpellier complained that they had the impression of a reduced number of participants due to the success of some satellite conferences. The commission discussed about this. The commission sees some tradition in having such satellite conferences. The commission will watch the development of the numbers of participants of ICPS and of the satellite conferences.

The postponed EP2DS/MSS will take place in Würzburg from July 27th to July 31st 2020, chairman is Sven Höfling. The corresponding website will be distributed to the community. In 2021 EP2DS/MSS will be organized by Yasuhiko Arakawa in Japan in order to come back to the old schedule with EP2DS/MSS taking place in odd years.