

IUPAP Commission on Semiconductor Physics (C8)
Report on Activities in 2019/2020 for the October, 2020 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 for the meeting in October 2019.

There were email exchanges among the members to discuss and decide about the different activities of the commission, especially during December 2019 and spring 2020. Starting March 2020 the coronavirus crisis affected the work of the commission in various ways. Conferences were postponed or cancelled and meetings of the commission in person were not possible. Due to the coronavirus COVID-19 pandemic the term of the commission will not end, as originally planned, in December 2020 but is extended until December 2021 and all members agreed to this.

One of the main activities of the commission in 2019/2020 was the **selection of the prize winners for the IUPAP Young Scientist Prizes in Semiconductor Physics 2020**. The deadline for the nominations was December 31st 2019. The voting about the prize winners was organized by the secretary of the commission, Young Dong Kim, during January/February 2020. The quality of the nominations was very high as in the previous prize rounds. Nevertheless, the voting of the commission resulted in two clear prize winners:

Prof. Cheng Gong, University of Berkeley (now at University of Maryland), USA
Prof. Michael Saliba, University of Darmstadt (now at University of Stuttgart), Germany

Normally the two prizes would have been awarded during the 35th International Conference on the Physics of Semiconductors (ICPS). Due to the coronavirus COVID-19 pandemic this conference did not take place as originally planned in Sydney from August 9, 2020 to August 14, 2020, but it had to be postponed. Therefore, it was not possible to award the two prizes and to listen to prize talks of the two winners on this important conference on the Physics of Semiconductors this year. Postponed prize talks of the two prize winners 2020 are planned to be given during the ICPS 2022 together with the prize talks of the IUPAP Young Scientist Prizes in Semiconductor Physics 2022.

Another main activity of the commission is **the allocation of the organizers and places of the ICPS**. The organization of the ICPS was heavily affected by the coronavirus COVID-19 pandemic as mentioned above. At the end of March 2020 it became clear that it would not be possible to have 35th ICPS, as planned, in Sydney during August 2020. So, the commission was contacted by the conference chair Prof. Sven Rogge (University of New South Wales, Sydney) about possible alternatives.

As a first alternative postponing the conference to June 2021 was discussed. After forwarding of the email of Sven Rogge to the commission members on 27th March all commission members - with no exception - responded within 2 days. All of the commission members agreed that it would be wise to postpone the conference. But several concerns were expressed about an ICPS taking place during middle of June 2021. One point related to the fact that two other conferences in the field of semiconductor physics (EP2DS/MSS and Edison) are planned for 2021. There were concerns that the number of participants would be divided among the different conferences. In addition, middle of June appeared to be not ideal for participants from several countries (e.g. Korea, Germany etc.) since there would be still exams/lectures running at the universities. A major concern was that coronavirus COVID-19 pandemic might not be over in 2021. Connected to this and in order to keep the ICPS conferences in the even years the idea came up that one could shift all the planned ICPS conferences by two years (i.e. ICPS in Sydney to 2022, ICPS in Ottawa to 2024).

The proposal to shift all planned ICPS conferences by two years was taken up by the local organizing committee of 35th ICPS in Sydney. The commission received two new dates when the International Convention Centre, Sydney, would be available. C8 decided then that **35th ICPS should be held at the International Convention Centre, Sydney, from Sunday, June 26th 2022, until Friday, July 1st 2022.**

There were email exchanges with the chairman of the planned 36th ICPS, Prof. Pavel Hawrylak, Ottawa, Canada, connected to the decision to postpone 35th ICPS by two years. The original plan was to have 36th ICPS in Ottawa in 2022. With 35th ICPS in 2022 the idea was to postpone also 36th ICPS by two years from 2022 to 2024. Prof. Pavel Hawrylak reserved then **Ottawa Congress Center in Ottawa, Canada, for 36th ICPS from Sunday, July 28th 2024, until Friday, August 2nd 2024.**