Preface to the Proceedings of the 33rd International Conference on the Physics of Semiconductors, Beijing, 2016

Shaoyun Huang1, Yingjie Xing1, Yang Ji2, Dapeng Yu3, and Hongqi Xu1

1Beijing Key Laboratory of Quantum Devices, Key Laboratory for the Physics and Chemistry of Nanodevices and Department of Electronics, Peking University, Beijing 100871, China
2SKLSM, Institute of Semiconductors, Chinese Academy of Sciences, Beijing 100083, China
3State Key Laboratory for Mesoscopic Physics, Department of Physics, Peking University, Beijing 100871, China

From July 31st to August 5th, 2016, the 33rd International Conference on the Physics of Semiconductors (ICPS 2016) was held in Beijing, China, with a great success. The International Conference on the Physics of Semiconductors began in the 1950’s and is a premier biennial meeting for reporting all aspects of semiconductor physics including electronic, structural, optical, magnetic and transport properties. Reflecting the state of the art developments in semiconductor physics, ICPS 2016 served as an international forum for scholars, researchers, and specialists across the globe to discuss future research directions and technological advancements. The main topics of ICPS 2016 included:

- Material growth, structural properties and characterization, phonons
- Wide-bandgap semiconductors
- Narrow-bandgap semiconductors
- Carbon: nanotubes and graphene
- 2D Materials beyond graphene
- Organic semiconductors
- Topological states of matter, topological Insulators and Weyl semimetals
- Transport in heterostructures
- Quantum Hall effects
- Spintronics and spin phenomena
- Electron devices and applications
- Optical properties, optoelectronics, solar cells
- Quantum optics, nanophotonics
- Quantum information
- Other topics in semiconductor physics and devices
- Special topic: Majorana fermions in solid state

The conference consists of a Nobel symposium, five plenary sessions, 72 oral session, three poster sessions, and an IUPAP Young Scientist Prize winner session. The Nobel symposium was featured with three Nobel laureate lectures and a technology lecture on the emerging semiconductor industries of China, and a panel discussion by Nobel laureates Klaus von Klitzing, Andre Geim, Hiroshi Amano and Shuji Nakamura, and Senior Vice President of SMIC (a major China chip company) Min-Hwa Chi. The plenary sessions included lectures by Yasuhiro Arakawa, David D. Awschalom, Jiangfeng Du, Andre Geim, Tony Heinz, Charles Marcus, Sang Il Seok, Michelle Y. Simmons, and Ali Yazdani. The oral sessions included 72 invited talks and 287 contributed talks. The poster sessions hosted 792 contributed presentations. In the IUPAP Young Scientist Prize winner session, the prize winners Dr. Samuel D. Stranks and Dr. Kimberly Dick Thelander presented plenary lectures.
on their prize-winning achievements. The conference was concluded by a best student poster award session, in which outstanding poster presentations by graduate students were honored.

In the proceedings, we selected eighty-four presentations made in ICPS 2016 to provide a good overview of the topics covered in the conference. All the papers in this collection have undergone the same peer-review process as regular journal articles. The organizers of ICPS 2016 are particularly grateful to the Institute of Physics for allowing us to publish these papers in Journal of Physics: Conference Series. We thank all the authors for taking extra efforts to convert their valuable presentations into the presented journal articles and thus making their contributions available to a broad audience in semiconductor physics and related fields. We hope that the readers will find the results presented in these papers interesting and scientifically stimulating.
Address at the Opening Ceremony of the 33rd International Congress on the Physics of Semiconductors

Professor Chunli BAI, President, Chinese Academy of Sciences

Committees of the Conference, Distinguished guests, Dear colleagues and friends, Ladies and Gentlemen, it gives me great pleasure to join you in the beautiful city of Beijing at the special time of wonderful August. On behalf of the Chinese Academy of Science, let me extend warm congratulations on the opening of the 33rd International Conference on the Physics of Semiconductors. I want to welcome all guests who have traveled from afar to Beijing and I also express my sincere thanks to the committees of the conference.

Semiconductor physics and technologies have been the driving force and fundamental blocks to shape the modern society, and the ICPS is the premier meeting for reporting important advances in all related aspects. Since its founding in 1950, the biennial conference presents invaluable milestones and common memories to us. It is delighted to me personally to be here, among you prestigious experts and scientists, to continue the legendary tradition. At the same time, I want to take this opportunity to give you, ladies and gentlemen, a general introduction about CAS.

CAS was established on ruins in 1949, almost one year before the first ICPS. After decades of struggling and developing, today, CAS has become the linchpin of China's drive to explore and harness high technology and the natural sciences for the benefit of China and the world. Comprising a comprehensive research and development network, a merit-based academic society and a system of higher education. CAS now is consisting of 104 research institutes, five universities & supporting organizations, 12 branches and is functioning as the national scientific think tank and academic governing body, providing advisory and appraisal services on issues stemming from the national economy, social development, and science and technology progress. Based on the number of papers published by the Nature Publishing Group, the Chinese Academy of Science has ranked 1st among research institutions in the world according to the Nature Publishing Index elaborated by NPG in 2014 and 2015.

Ladies and Gentlemen, semiconductor physics and technologies remain core battlefields in CAS strategies. Date back to 1960, CAS has established special institute to improve semiconductor research and development in China, and contributed outstanding scientists such as Prof. Kun Huang et al. to the semiconductor physics society. As the initiative of CAS innovation 2020 in 2011, CAS will keep seeking to improve the academy’s capacity for innovation and to make a significant contribution to the development of emerging industries related to semiconductors. To fulfill the purpose, CAS will set up more collaborative groups, initiate more international science programmes, and implement more international talent programmes to recruit more senior scientists and talented young scientists. The more the better, just as Prof. P. W. Anderson says: “More is different.”

Ladies and gentlemen, please pay your continuing attentions to CAS. Let’s push semiconductors physics and technologies forward together. And finally I wish you an unforgettable and prefect experience here.

Thank you!
Welcome Address at the Thirty-Third International Conference on the Physics of Semiconductors (ICPS2016)

Jianhua LIN, President of Peking University (August 1, 2016, Beijing)

Good morning! Committees of the Conference, Distinguished guests, Ladies and gentlemen, please allow me to begin by, as President of Peking University, offering my great congratulations on the opening of the THIRTY-THIRD INTERNATIONAL CONFERENCE ON THE PHYSICS OF SEMICONDUCTORS (ICPS2016), and expressing my sincere welcome to scientists and students who travelled from home and aboard to make ICPS2016 a memorable academic feast.

I would like to extend my special gratitude to the distinguished scholars, who attended the Nobel Symposium on Sunday July 31st, Nobel Laureates: Professor Klaus von Klitzing, Professor Andre Geim, Professor Hiroshi Amano, and Professor Shuji Nakamura.

Peking University, founded in 1898, was the China’s first national multidisciplinary university. Now, Peking University is a key comprehensive university of China, located near to the Yuanmingyuan Garden and the Summer Palace.

The University is proud of its outstanding faculties, including 53 members of the Chinese Academy of Sciences (CAS), 7 members of the Chinese Academy of Engineering (CAE), and 14 members of the Third World Academy of Sciences (TWAS). It has effectively combined top-level research on a wide range of sciences and technologies with the training of personnel with a high level of knowledge and professional skill as demanded by the China’s fast development and modernization. It strives not only for improvements in education and research, but also for the promotion of interaction and mutual influence among various disciplines.

Thus, Peking University has become a center for education and research, embracing diverse branches of learning and exploration, such as basic and applied sciences, social sciences and the humanities, and sciences of medicine, management, and education. Its aim is to rank among the world’s best universities in the near future.

Well known as the premier meeting for reporting all aspects of semiconductor physics, the ICPS2016 offers us an opportunity together to focus on current developments in semiconductor physics, condensed matter physics, materials science, and IT technologies. In addition to the inspiration day of Sunday, when the Nobel Symposium was successfully held, I hope you will have five most productive days of forefront, insightful and stimulating discussions. And also hope the ICPS2016 will be a great success not only as a stage to share knowledge and techniques but also as the beginning of a fruitful cooperation and friendship among young research fellows who will shape our future.

Thank you very much!
Welcome Address at the Thirty-Third International Conference on the Physics of Semiconductors (ICPS2016)

Hongqi Xu, Chair of ICPS2016 (August 1, 2016, Beijing)

President BAI Chunli, President YANG Wei, President LIN Jianhua, Distinguished guests, Ladies and gentlemen, once more, on behalf of the organizing committee, I, as the chair of ICPS2016, wish to welcome you all, especially those colleagues and young scientists who traveled far abroad, to Beijing and to China. I am very happy and excited to open the 33rd International Conference on the Physics of Semiconductors (ICPS2016). ICPS started in 1950 after two years since the discovery of the transistor effect. ICPS2016 is in its 66th year and for the second time in Beijing, in China, after 24 years of ICPS-21 in Beijing in 1992.

ICPS2016 was initiated in 2012 when ICPS-31 was held in Zurich, Switzerland after strong encouragements and supports received from the international community of the physics of semiconductors. What you may already and will experience in this week is the outcome of the joint effort of many people including you all at this opening session and those who could not join us. I would like to thank all people who have provide encouragements, supports, and help, and have worked hard to make the program of this conference possible. Especially, I would like to thank you all for writing, submitting, packing, and coming over to Beijing to present your accomplishments.

The physics of semiconductors is a dynamic, fast developing, multidisciplinary field and has made strong influences on the current world industrial revolution, the society development, and the way we all live today. ICPS2016 is featured by Nobel Symposium lectures, plenary lectures, IUPAP C8 Young Scientist Prize winner lectures, invited talks, oral presentations and poster presentations, in all aspects of semiconductor physics. ICPS2016 will also strongly reflect the emerging directions of the development in semiconductor physics in recent years, including, e.g., topological states of matter, two-dimensional materials, perovskite photovoltaic materials, and quantum information technologies. I hope that in the five days ahead, you will enjoy ICPS2016 as a stage to share knowledge and techniques and to create fruitful cooperation and friendship among participants, especially among young scientists, from different countries and with different cultural backgrounds.

The scientific program you have received is full and tight, which means that you will have five hard, heavy working days ahead in Beijing. I would like to encourage you to take some time off to explore the natural, cultural, and historical elements of Beijing, an ancient capital city of China. In particular, I do encourage you to visit the Forbidden City, the Great Wall, The Summer Palace, The Temple of Heaven, The National Museum of China, and Hutong and Siheyuan (old streets and houses where Beijing’s people have lived). However, I have to advise you to be prepared for very crowded people in all tourist spots in Beijing and traffic jams in the city; July and August are the hottest tourist seasons in Beijing.

Enjoy ICPS2016! Enjoy your stay in Beijing!

Now let me pass the floor to Nobel Laureate Andre Geim, Professor at University of Manchester, to chair the first plenary session of ICPS2016.

Thank you!
The 33rd International Conference on the Physics of Semiconductors (ICPS2016)

Honorary Chairs:
Houzhi Zheng Institute of Semiconductors, CAS, China
Enge Wang Peking University & CAS, China

Chair:
Hongqi Xu Peking University, China

Co-chairs:
Qikun Xue Tsinghua University, China
Shushen Li Institute of Semiconductors, CAS, China

International Advisory Committee

Chair:
Bangfen Zhu Tsinghua University, China

Members:
Hiroshi Amano Nagoya University, Japan
Tsuneya Ando Tokyo Institute of Technology, Japan
Wanda Andreoni Ecole Polytechnique Fédérale de Lausanne, Switzerland
Yasuhiko Arakawa The University of Tokyo, Japan
David Awschalom University of Chicago, USA
Gérald Bastard Laboratoire Pierre Algrain-ENS, France
Fabio Beltram Scuola Normale Superiore, Italy
Hélène Bouchiat CNRS, Université Paris-Sud, France
Luis Brey Consejo Superior de Investigaciones Cientificas, Spain
Leonard Brillson The Ohio State University, USA
Federico Capasso Harvard, USA
Yves J. Chabal University of Texas at Dallas, USA
Jim Chelikowsky University of Texas at Austin, USA
Sankar Das Sarma University of Maryland, USA
Benoit Deveaud Ecole Polytechnique Fédérale de Lausanne, Switzerland
Laurence Eaves University of Nottingham, UK
Klaus Ensslin ETH Zurich, Switzerland
Leo Esaki The Science and Technology Promotion Foundation of Ibaraki, Japan
Leonard C. Feldman Rutgers University, USA
Alfred Forchel University of Wurzburg, Germany
Alfonso Franciosi University of Trieste, Italy
Takashi Fukui Hokkaido University, Japan
Zizhao Gan Peking University, China
Mordehai Heiblum Weizmann Institute, Israel
Chennupati Jagadish The Australian National University, Australia
Erik Janzén Linkoping University, Sweden
Young Dong Kim  
Kyung Hee University, Korea

Belita Koiller  
Federal University of Rio de Janeiro, Brazil

Jorg Kotthaus  
Ludwig-Maximilians-Universität Munich, Germany

Leo Kouwenhoven  
TU Delft, the Netherlands

Seung Joo Lee  
Dongguk University, Korea

Young Hee Lee  
Sungkyunkwan University, Korea

Daniel Loss  
University of Basel, Switzerland

Yuri E. Lozovik  
Institute for Spectroscopy, Moscow, Russia

Charles Marcus  
University of Copenhagen, Denmark

Bruce D. McCombe  
University of Buffalo, USA

Laurens Molenkamp  
Würzburg University, Germany

Robin J. Nicholas  
University of Oxford, UK

Hideo Ohno  
Tohoku University, Japan

Mikael Ostling  
Royal Institute of Technology (KTH), Sweden

Hiroyuki Sakaki  
Toyota Technological Institute, Japan

Lars Samuelson  
Lund University, Sweden

David Seiler  
National Institute of Standards and Technology, USA

Pascale Senellart  
CNRS, France

Xuechu Shen  
Institute of Technical Physics, CAS, China

Seigo Tarucha  
The University of Tokyo, Japan

Thomas Tiedje  
University of Victoria, Canada

Daniel C. Tsui  
Peking University, China

Klaus von Klitzing  
Max Planck Institute for Solid State Research, Germany

Felix von Oppen  
FU Berlin, Germany

Jianbai Xia  
Institute of Semiconductors, CAS, China

Lu Yu  
Institute of Physics, CAS, China

Youdou Zheng  
Nanjing University, China

**Program Committee**

**Chair:**

Kai Chang (Chair)  
Institute of Semiconductors, CAS, China

Li Lu (Co-chair)  
Institute of Physics, CAS, China

Xincheng Xie (Co-chair)  
Peking University, China

**Members:**

Jacqueline Bloch  
LPN, CNRS, France

Guido Burkard  
University of Konstanz, Germany

Irina Buyanova  
Linköping University, Sweden

Xi Chen  
Tsinghua University, China

Kee Joo Chang  
Korea Advanced Institute of Science and Technology, Korea

Mei-Yin Chou  
Georgia Institute of Technology

Zhong Fang  
Institute of Physics, CAS, China
Jerome Faist  ETH Zurich, Switzerland
Gwendal Feve  LPA, ENS, France
Silvano De Franceschi  CEA Grenoble, France
Ulf Gennser  CNRS, France
Bernard Gil  Université Montpellier 2, France
David Goldhaber-Gordon  Stanford University, USA
Vladimir Gritsenko  Institute of Semiconductor Physics, Siberian Branch of RAS, Russia
Guoping Guo  University of Science and Technology of China, Hefei, China
Alex Hamilton  The University of New South Wales, Australia
Rolf Haug  University of Hannover, Germany
Amr Helmy  University of Toronto, Canada
Yoshihiro Hirayama  Tohoku University, Japan
Kazuhiko Hirakawa  University of Tokyo, Japan
Ru Huang  Peking University, China
Thomas Ihn  ETH Zurich, Switzerland
Koji Ishibashi  RIKEN, Japan
Frank Jahnke  Bremen University, Germany
Berend T. Jonker  Naval Research Laboratory, USA
Thomas Jungeirth  Institute of Physics ASCR Prague, Czech Republic & University of Nottingham, United Kingdom
Shingo Katsumoto  University of Tokyo, Japan
Gil-Ho Kim  Sungkyunkwan University, Korea
Jari Kinaret  Chalmers University of Technology, Sweden
Donghan Lee  Chungnam National University, Korea
Aristide Lemaitre  LPN, CNRS, France
Renbao Liu  The Chinese University of Hong Kong, Hong Kong
Roman M. Lutchyan  University of California at Santa Barbara, USA
Jochen Mannhart  Max Planck Institute for Solid State Research, Germany
Yuval Oreg  Weizmann Institute of Science, Israel
Francois Peeters  Universiteit Antwerpen, Belgium
Ravi Pillarisetty  Intel Corporation, USA
Vladimir Pudalov  P.N. Lebedev Physical Institute RAS, Russia
John Robertson  University of Cambridge, United Kingdom
Andrew Sachrajda  National Research Council of Canada, Canada
Dezhen Shen  Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China
Shun-Qing Shen  University of Hong Kong, Hong Kong
Yi Shi  Nanjing University, China
Glenn Solomon  NIST, Gaithesburg, USA
Young-Woo Son  Korea Institute for Advanced Study, Korea
Lucia Sorba  SNS, Italy
Patrick Soukiassian  Commissariat à l’Energie Atomique et aux Energies Alternatives, Saclay, France
Vladislav Timofeev  Institute of Solid State Physics, RAS, Russia
Chris G. Van de Walle  University of California at Santa Barbara, USA
Luis Vina  Universidad Autónoma de Madrid, Spain
Jiannong Wang  The Hong Kong University of Science and Technology, Hong Kong
Lars-Erik Wernersson  Lund University, Sweden
Hiroshi Yamaguchi  NTT BRL, Japan
Alfredo Levy Yeyati  Autonomous University of Madrid, Spain
Dapeng Yu  Peking University, China
Uli Zulicke  Victoria University of Wellington, New Zealand

**IUPAP Commission on Semiconductors (C8)**

| Role          | Name                        | Country          |
|---------------|------------------------------|------------------|
| Chair         | Michael Thewalt              | Canada           |
| Vice-Chair    | Belita Koiller               | Brazil           |
| Secretary     | Rolf Haug                    | Germany          |
| Member        | Qi-Kun Xue                   | China            |
| Member        | Pascale Senellart            | France           |
| Member        | Young Dong Kim               | Korea            |
| Member        | Amalia Patanè               | United Kingdom   |
| Member        | Yasuhiko Arakawa            | Japan            |
| Member        | Robert Suris                 | Russian Federation |
| Member        | Per-Olof Holtz              | Sweden           |
| Member        | Anna Cavallini              | Italy            |
| Member        | Jacek Kossut                 | Poland           |
| Member        | Uli Zülicke                  | New Zealand      |
| Member        | Alan MacDonald               | United States    |
| Assoc. Mem.   | Joël Cibert                 | France           |
| Assoc. Mem.   | Thaddeus Ladd               | United States    |
| Assoc. Mem.   | Vladimir Kulakovskii        | Russia           |

**Organizing Committee**

**Honorary Chairs:**

- Houzhi Zheng  Institute of Semiconductors, CAS, China
- Enge Wang  Peking University & CAS, China

**Chair:**

- Hongqi Xu  Peking University, China

**Co-chairs:**

- Qikun Xue  Tsinghua University, China
- Shushen Li  Institute of Semiconductors, CAS, China

**Secretary-General:**

- DaPeng Yu  Peking University, China

**Vice Secretary-General:**
Yang Ji  Institute of Semiconductors, CAS, China
Yingjie Xing  Peking University, China
Shaoyun Huang  Peking University, China

Local Committee Members:
Hongqi Xu  Peking University
Qikun Xue  Tsinghua University
Shushen Li  Institute of Semiconductors, CAS
Kai Chang  Institute of Semiconductors, CAS
Li Lu  Institute of Physics, CAS
XinCheng Xie  Peking University
Yun Jiang  Peking University
Hui Cai  Peking University
Dapeng Yu  Peking University
Yang Ji  Institute of Semiconductors, CAS
Yingjie Xing  Peking University
Shaoyun Huang  Peking University
Jian Liu  Institute of Semiconductors, CAS
Ning Kang  Peking University
Jingyun Wang  Peking University
Linhui Ye  Peking University
Zhimin Liao  Peking University
Chengjie Xing  Peking University
Yan Gao  Peking University

Plenary Speakers
Yasuhiko Arakawa  University of Tokyo, Japan
David D. Awschalom  University of Chicago, USA
Jiangfeng Du  University of Science and Technology of China, China
Andre Geim  University of Manchester, UK
Tony Heinz  Stanford University & Columbia University, USA
Charles Marcus  University of Copenhagen, Denmark
Sang Il Seok  Ulsan National Institute of Science and Technology, Korea
Michelle Y. Simmons  University of New South Wales, Australia
Samuel D. Stranks  Massachusetts Institute of Technology, USA
Kimberly Dick Thelander  Lund University, Sweden
Ali Yazdani  Princeton University, USA

Invited Speakers
Marc-Alexander Assmann  Technische Universität Dortmund, Germany
Georgy Astakhov  University of Würzburg, Germany
| Name                        | Institution                                             |
|-----------------------------|---------------------------------------------------------|
| Mete Atatüre               | University of Cambridge, UK                             |
| Adrian Bachtold            | Institute of Photonic Sciences, Spain                   |
| Christopher Bauerle       | CNRS, Institute NEEL, France                            |
| Sagar Bhandari             | Harvard University, USA                                 |
| Hartmut Buhmann            | University of Würzburg, Germany                         |
| Guillaume Cassabois        | University of Montpellier, France                       |
| Kookrin Char               | Seoul National University, Korea                        |
| Evgeny Chekhovich          | University of Sheffield, UK                             |
| Weimin M. Chen             | Linköping University, Sweden                            |
| Yulin Chen                 | Tsinghua University & ShanghaiTech University, China    |
| Zhanghai Chen              | Fudan University, China                                 |
| Hyeonsik Cheong            | Sogang University, Korea                                |
| Xi Dai                     | Institute of Physics, CAS, China                       |
| Tomasz Dietl               | Institute of Physics, Polish Academy of Sciences, Poland |
| Hong Ding                  | Institute of Physics, CAS, China                       |
| Rui-rui Du                 | Rice University/Peking University, USA/China            |
| A. S. Dzurak               | University of New South Wales, Australia                |
| Laurence Eaves             | University of Nottingham, UK                            |
| Saskia F. Fischer          | Humboldt-Universitaet zu Berlin, Germany                |
| Akira Fujiwara             | NTT Basic Research Laboratories, Japan                  |
| Attila Geresdi            | TU Delft, the Netherlands                               |
| David Gershoni             | Israel Institute of Technology, Israel                  |
| Katsushi Hashimoto         | Tohoku University, Japan                                |
| Simon Huppert              | University Paris Diderot, France                        |
| Chennupati Jagadish        | Australian National University, Australia               |
| Jinfeng Jia                | Shanghai Jiaotong University, China                     |
| Masashi Kawasaki          | RIKEN, Japan                                            |
| Keun Su Kim                | Pohang University of Science and Technology, Korea      |
| Philip Kim                 | Harvard University, USA                                 |
| Takis Kontos               | Ecole Normale Supérieure, France                        |
| Sergey Krishtopenko        | University of Montpellier, France                       |
| Loic Lanco                 | LPN, CNRS, France                                       |
| Snezana Lazic              | Universidad Autónoma de Madrid, Spain                   |
| Young Hee Lee              | leeyoung@skku.edu                                       |
| Xian-Bin Li                | Jilin University, China                                 |
| Xiaoqin Li                 | University of Texas at Austin, USA                      |
| Daniel Loss                | University of Basel, Switzerland                        |
| Steve G. Louie             | University of California at Berkeley, USA               |
| Chao-Yang Lu               | University of Science and Technology of China,          |
China

Stefan Ludwig
Ludwig-Maximilians-University München,
Germany

Anders Mikkelsen
Lund University, Sweden

Shuji Nakamura
UC Santa Barbara, USA

Junsaku Nitta
Tohoku University, Japan

Masahiro Nomura
The University of Tokyo, Japan

Akira Oiwa
Osaka University, Japan

Wei Pan
Sandia National Laboratories, USA

Jason Petta
Princeton University, USA

Frédéric Pierre
CNRS, France

Heike E. Riel
IBM Zurich Research Laboratory, Switzerland

Jay Deep Sau
University of Maryland, USA

Christian Schönenberger
University of Basel, Switzerland

Leigh Smith
University of Cincinnati, USA

Ady Stern
Weizmann Institute, Israel

Seigo Tarucha
University of Tokyo, Japan

Felix von Oppen
Freie University Berlin, Germany

Timo Wagner
Leibniz University, Germany

Jian Wang
Peking University, China

Xinran Wang
Nanjing University, China

Yayu Wang
Tsinghua University, China

Richard J. Warburton
University of Basel, Switzerland

Claude Weisbuch
UC Santa Barbra, USA

Dieter Weiss
University of Regensburg, Germany

Jonas Wiedenmann
University of Würzburg, Germany

Wang Yao
University of Hong Kong, China

Peide D Ye
Purdue University, USA

Yuanbo Zhang
Fudan University, China

Jianhua Zhao
Institute of Semiconductors, CAS, China

Oded Zilberberg
ETH Zurich, Switzerland

Valery Zwiller
Royal Institute of Technology (KTH), Sweden