Joint
Eighteenth International Conference on
HIGH PRESSURE
SEMICONDUCTOR PHYSICS
&
Second International Workshop on
HIGH PRESSURE
STUDY OF SUPERCONDUCTORS



July 23 - 27, 2018
CosmoCaixa Museum
Barcelona
Spain

Third Announcement
(Call for papers)

Call for papers

Submission of original work is solicited covering the following list of scientific topics:

1. Electronic structure
2. Mechanical properties including vibrational, elastic and piezoelectric properties
3. Optical properties
4. Electrical transport phenomena in semiconductors & superconductors
5. Impurity and defect states
6. Structural studies including phase transitions
7. Magnetic diluted semiconductors & spin dependent properties
8. Thermoelectricity and thermal properties
9. Carbon-related semiconductors
10. Low-dimensional, layered & nanostructured materials
11. Superconducting materials & pressure-induced metallization and superconductivity
12. Organic & hybrid materials
13. Strongly correlated electron systems
14. Novel materials, structures and devices
15. New experimental or computational techniques

Publication

Conference participants are kindly invited to submit original manuscripts for publication in a *Focus Series on High Pressure Semiconductor and Superconductor Physics* in the international journal Papers in Physics (http://www.papersinphysics.org/index.php/papersinphysics/pages/view/highpressuresemisuperconductor). After peer-review, accepted manuscripts will be published **open access** as regular articles as part of the Focus Series. In Papers in Physics, authors may ask for Open Review, which means that the reviewers are not anonymous and their names will be stated in the published paper. Moreover, if the editors consider the reports valuable for the readers, the publication of Commentaries from the reviewers are encouraged, with due Replies from authors, if necessary.

Reception of submissions for this focus series of Papers in Physics edited by Andrés Cantarero, Alejandro R. Goñi and J. Sebastián Reparaz is open.

If you wish to submit a manuscript for inclusion in this focus series, you can follow the standard process for regular articles (see authors guidelines: http://www.papersinphysics.org/index.php/papersinphysics/about/submissions#authorGuidelines) and indicate you would like the paper to be considered for the "Focus series on High Pressure Semiconductor and Superconductor Physics". The articles will be limited in length to a MAXIMUM of **10** printed pages for **invited** speakers and **5** pages for **contributed** papers.

Presentation Formats

Invited talks: 30 min total (25 min talk + 5 min discussion).
Contributed talks: 15 min total (12 min talk + 3 min discussion).
A computer for projection will be available. Authors are required to bring their presentation on either a memory stick or use their own computer.
Posters: Pin-up boards will be provided to accommodate 120 cm x 90 cm (DIN A0) posters.

Invited Speakers

Marvin L. Cohen, Berkeley University, USA
Isaac F. Silvera, Harvard University, USA
Mikhail Eremets, MPI for Chemistry, Mainz, Germany
Eugene Gregoryanz, University of Edinburgh, UK
John S. Tse, University of Saskatchewan, Canada
Paolo Postorino, University of Roma Sapienza, Italy
Bingbing Liu, Jilin University, China
Sofia-Michaela Souliou, ESRF, Grenoble, France
Stanislaw Krukowski, UNIPRESS, Warsaw, Poland
Olivier Pages, Université de Lorraine, France
Sergey Ovsyannikov, University of Bayreuth, Germany
Shanti Deemyad, University of Utah, USA
Kazuyuki Matsubayashi, Tokyo, Japan
Julio Pellicer-Porres, Valencia University, Spain
Manuel Núñez-Regueiro, Institut Neel CNRS, France
Aitor Bergara, Universidad del País Vasco (EHU), Spain
Shinji Watanabe, Kyushu Institute of Technology, Japan
Ingo Loa, University of Edinburgh, UK
Vladimir Solozhenko, CNRS, Paris, France
Agata Kaminska, Institute of Physics, Warsaw, Poland
Miriam Peña-Alvarez, University of Edinburgh, UK
Suchi Guha, University of Missouri, USA
Alfonso San Miguel, University of Lyon, France
Yoshihisa Mori, Okayama University of Science, Japan
Markus R.Wagner, TU Berlin, Germany

Venue

The HPSP18&WHS2 conference will be held at the *CosmoCaixa Museum*, which is the first interactive science museum in Spain. This space would provide a unique and

stimulating environment for all conference participants. The Museum is located in the west part of Barcelona and about 15 minutes (highly dependent on traffic) drive from downtown Barcelona, easily accessible by public transportation such as bus and train (FGC).
More information on the facilities and their location of the CosmoCaixa Museum of Science are available at:
https://obrasociallacaixa.org/en/ciencia/cosmocaixa/el-museo

Registration

Please use the webpage of the conference to register. Payment can be realized either by bank transfer at the account indicated in the registration form or by credit card. **Presenting authors please remember to register on time!**
The conference registration fee includes (also for students and retired scientists) the proceedings, welcome reception and conference banquet.

Organizing Committee

A.R. GOÑI (Chair), Barcelona, Spain
F. RODRÍGUEZ (Co-Chair), Santander, Spain
M.I. ALONSO (Local Arrangements), Barcelona, Spain
A. MORENO (Local Arrangements), Barcelona, Spain
A. FRANCISCO (Local Arrangements), Barcelona, Spain
A. CANTARERO (Publication), Valencia, Spain
J.S. REPARAZ (Publication), Barcelona, Spain

Further information

Conference updates will be posted at:
https://congresses.icmab.es/hpsp18-whs2/

For enquiries please contact:
Prof. Alejandro R. Goñi
ICREA Research Professor
Institut de Ciència de Materials de Barcelona
(ICMAB-CSIC)
Campus de la UAB
E-08193 Bellaterra
Spain

Tel: +34-93-580 1853 ext. 378
Fax: +34-93-580 5729
E-mail: goni@icmab.es

Save the dates
&
plan your trip
to
Barcelona !

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