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

HPSP 18 & WHS2
Barcelona, July 23-27 2018

July 23 - 27, 2018
CosmoCaixa Museum
Barcelona
Spain

Second Announcement
(Call for abstracts)

Scientific Topics

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

Invited Speakers

Marvin L. Cohen, Berkeley University, USA
Isaac F. Silvera, Harvard University, USA
Paul Loubeyre, CEA, Bruyères-le-Châtel, France
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

Pre-registration & Abstract Submission

To submit an abstract, the presenting or corresponding author must proceed first with the pre-registration through the webpage of the conference. Please follow the indications given online to complete the pre-registration form and to upload the abstract of your contribution, using the templates made available at the webpage. Full registration and payment, which can be realized in advance by bank transfer and credit card, will open soon.

Abstracts should be sent before March 23, 2018, by uploading the corresponding pdf or Word file. Again, templates and instructions are posted at the conference webpage. Abstracts should be written in English on a single sheet of A4 or US letter in size, in no less than 11 point type. They may include figures and references but the total printed area must not exceed one page. Please underline the presenting author and indicate the email of the corresponding author. Your preference for oral or poster presentation as well as the area among the fifteen topics scoped by the conference (see list above), within which your work should be classified, must be indicated in the pre-registration form, NOT in the abstract. Notice of acceptance will be sent on April 16, 2018.



View of the *Sagrada Familia*

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 (www.papersinphysics.org). 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. Instructions for production and submission of manuscripts will be provided in a forthcoming announcement.

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



The CosmoCaixa museum

Schedule

There will be some plenary and/or invited talks devoted to review and include recent developments/findings in hot topics as well as talks of shorter duration and a poster session providing ample opportunities for the exchange of ideas and discussions. It follows a tentative schedule of the conference:

- July 23 (Mo.) Arrival day & registration
- July 24 (Tu.) Morning: Opening session
- July 24 (Tu.) - July 27 (Fr.) Technical sessions
- July 26 (Th.) Late afternoon: Banquet
- July 27 (Fr.) Afternoon: Closing session

Important Dates in 2018

March 23---Abstract Due
April 16--- Notification of Acceptance Sent
June 4--- Deadline for Early Registration
July 2 ----Deadline for cancellation with full refund

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:

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&
plan your trip
to
Barcelona !