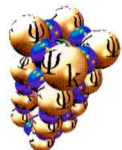




The Abdus Salam  
**International Centre  
for Theoretical Physics**  
www.ictp.it



## 18th International Workshop on Computational Physics and Materials Science: Total Energy and Force Methods January 12-14, 2017 Miramare, Trieste, Italy

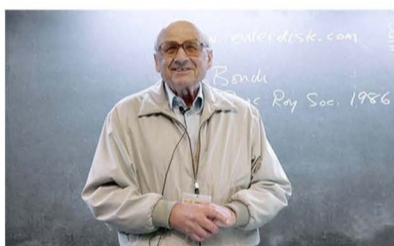
This Workshop is held traditionally in Trieste every two years, since 1987. Following the tradition of the previous meetings, it will be devoted to recent advances in computational condensed matter physics and materials science, based on realistic calculations of the electronic structure of complex systems.

The activity will be held at the International Centre for Theoretical Physics (ICTP), Trieste, Italy from 12 to 14 January 2017 with the co-sponsorship of Psi-k, SISSA, Consortium for Physics of Trieste, MaX EU Centre of Excellence for HPC applications, the European Cooperation in Science and Technology (COST) and the EUSpec Action "Modern Tools for Spectroscopy on Advanced Materials".

As in previous events of this series, the Workshop will consist of invited talks and contributed poster sessions, with ample space devoted to discussion.

Topics will span a broad range, including, among others:

- Spectroscopy
- Strong electronic correlations
- Electron-phonon coupling
- Superconductivity
- Novel functionals
- Transport
- Advanced Materials
- Materials Discovery



A special session will be held in memory of **Walter Kohn**, admired mentor and role model for many students and colleagues, who was awarded the [Nobel Prize in Chemistry](#) for his development of the density functional theory. The session will include the Award ceremony for the "Walter Kohn prize for quantum mechanical material modeling" (<https://www.ictp.it/about-ictp/prizes-awards/walter-kohn-prize.aspx>), co-funded by ICTP and the Quantum ESPRESSO Foundation.

### **PARTICIPATION**

Scientists from all countries that are members of the United Nations, UNESCO or IAEA may attend the Workshop. As the activity will be conducted in English, participants should have an adequate working knowledge of this language. There is no registration fee. Travel and subsistence expenses of participants should be borne by their home institutions. Limited funds are available for some participants who are nationals of, and working in, a developing country, to be selected by the Organizers. However, every effort should be made by candidates to secure at least partial support for their travel expenses.

### **CALL FOR POSTERS**

During the activity there will be **two poster sessions**. If you are interested in presenting a poster, please upload an abstract/poster directly to the **on-line application**. Please be informed that if you did not upload your poster and/or abstract during submission of your on-line application, it can still be done by accessing the form again, up to the application deadline, i.e. October 16, 2016.

### **APPLICATION:**

The "On-line Application" form can be accessed on the **ICTP activity website** along with an online comprehensive step-by-step guide on how to fill out and submit the application form at: <http://indico.ictp.it/event/7948/>

### **ACTIVITY SECRETARIAT:**

Secretary, Lisa Iannitti

c/o the Abdus Salam International Centre for Theoretical Physics (ICTP)

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Local Organizer: Prof. M. Peressi e-mail: [peressi@ts.infn.it](mailto:peressi@ts.infn.it)

ICTP Home page: <http://www.ictp.it/>

### **Organizing Committee**

**Shobhana NARASIMHAN**

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**Lucia REINING**

Ecole Polytechnique, Palaiseau, France

**Maria PERESSI**

University of Trieste, Italy

(Local Organizer)

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**W. Pickett**

University of California, Davis, USA

**L. Reining**

Ecole Polytechnique Palaiseau, Paris, France

### **DEADLINE:**

**October 16, 2016**

(if requesting funds and/or VISA)

A deadline extension is foreseen for applications not requiring a VISA

