

ICACS INTERNATIONAL SCIENTIFIC COMMITTEE

Toshiyuki Azuma // RIKEN (Japan)
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Pierfrancesco Ricciardi // Cosenza (Italy)
Hermann Rothard // Caen (France)
Thomas Schenkel // Berkeley (USA)
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Károly Tökési // Debrecen (Hungary)
Christina Trautmann // Darmstadt (Germany)
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SHIM INTERNATIONAL SCIENTIFIC COMMITTEE

Hiro Amekura // Tsukuba (Japan)
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Devesh Avashti // New Dehli (India)
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Isabelle Monnet // Caen (France)
Ricardo Papaleo // Porto Alegre (Brasil)
Hermann Rothard // Caen (France)
Daniel Severin // Darmstadt (Germany)
Christina Trautmann // Darmstadt (Germany)

Registration fees

Profile	Early Bird Reg. Before 13 May 2018	Regular Reg. Before 1 st June 2018	Late Reg. After 1 st June 2018
Standard	€ 490	€ 560	€ 630
Student *	€ 280	€ 320	€ 360

*A proof of your student condition is required in the online form when you register

Included in the conference fee: Scientific sessions, posters, access to Tutorials (optional), congress documents, book of abstracts, internet connection, coffee breaks (morning & afternoon), lunches & gala dinner on Wed. 4 July.



CONFERENCE SECRETARY: FRENCH VACUUM SOCIETY (SFV)
 contact@shim-icacs2018.org // +33 (0)1 53 01 90 30



PROGRAM ONLINE

13
 APRIL
 2018

EARLY BIRD RATE BEFORE

13
 MAY
 2018

LATE REGISTRATION AFTER

1
 JUNE
 2018

ICACS

28TH INTERNATIONAL CONFERENCE ON ATOMIC COLLISIONS IN SOLIDS



SHIM

10TH INTERNATIONAL SYMPOSIUM ON SWIFT HEAVY IONS IN MATTER

www.shim-icacs2018.org



ICACS

deals with physical and chemical phenomena induced by the interaction beams with condensed matter (surface, bulk of solids and liquids). Projectiles include singly and charged ions, atoms and clusters, photons, electrons, positrons, antiprotons, etc. The objectives of ICACS-28 are to assess the state of the art in the current understanding of a variety of basic phenomena.

SHIM

since 1989, brought together scientists performing research with high-energy heavy ions in various fields, including radiation effects in solids, atomic physics, plasma physics, radiation biology and medicine, and nanotechnology. SHIM focuses on basic as well as applied research, including both theoretical and experimental aspects.

In 2018, ICACS and SHIM will be organized together in Caen (France), starting with the traditional ICACS tutorials on Sunday. The conference program will comprise invited lectures as well as oral and poster presentations. There will be no parallel sessions. Proceedings are planned as special issue of Nuclear Instruments and Methods B.

CONFERENCE CHAIRS

Brigitte Ban d'Etat // CIMAP, Caen
Isabelle Monnet // CIMAP, Caen

Hermann Rothard // CIMAP, Caen
Ian Vickridge // INSP, Paris

TUTORIALS

Courses on ion-solid interaction will be delivered prior to the start of the conference, **Sunday 1st July from 14:00 until 17:30.**



14:00 - 15:30 // Thermal spike model used for reviewing the ion-matter interaction
Christian Dufour // CIMAP, Caen, FR



16:00 - 17:30 // Multiscale modelling of ion-solid interactions
Kai Nordlund // Helsinki University, FI

Access to the tutorials is included in the registration but booking is mandatory (as a free option of the registration form).



15 INVITED SPEAKERS WILL GIVE A TALK:



Lindhard lecture

Electronic stopping of protons and He ions in solids: a status report
Peter Bauer // Johannes Kepler University, Linz, AT



Controlled fabrication of Ion track-based nanostructures with tuned plasmonic and electric properties
Jinglai Duan // Institute of Modern Physics CAS, Lanzhou, CN



Polymers under ionizing radiations: evidences and quantification of energy transfers in presence of particular chemical functions
Muriel Ferry // CEA Saclay, FR



Self-organized lens effect in insulating capillaries
Eric Giglio // CIMAP, Caen, FR



Is a hillock just a protruded part of an ion track?
Norito Ishikawa // NSEC Japanese Atomic Energy Agency, Ibaraki, JP



Radiation defect dynamics in solids studied by pulsed ion beams
Sergei Kucheyev // Lawrence Livermore National Laboratory, California, USA



The influences of tracks on two-dimensional functional materials
Jie Liu // Institute of Modern Physics CAS, Lanzhou, CN



Electronic excitation, luminescence and particle emission: studying ion-induced phenomena in ToF-MEIS
Svenja Lohmann // Uppsala University, SE

Stopping power, experimental trends and open subjects, with focus on the low to intermediate energy region
Claudia Montanari // IAFE, Buenos Aires, AR



Molecular Imaging by Transmission SIMS in combination with Secondary Electron Microscope
Kaoru Nakajima // Kyoto University, JP



Ion track and hillock structure in the non-overlapping regime. A temperature dependent investigation
Jacques H. O'Connell // Nelson Mandela Metro Univ., Port Elizabeth, ZA



A locally driven relaxation for ion irradiated solid films
Luca Repetto // University of Genova, IT



Functional defects in 2D materials
Marika Schieberger // Univ. of Duisburg-Essen, DE



Relaxation pathways of slow highly charged ions transmitted through 2D materials
Janine Schwestka // TU Vienna, AT



Transport of convoy electrons in solid under fast molecular ion penetration
Shigeo Tomita // University of Tsukuba, JP

