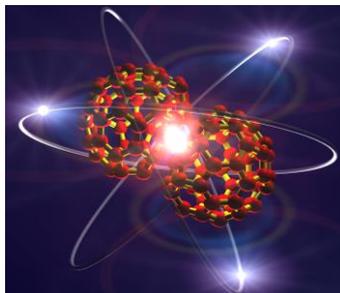


The Ninth International Symposium *"Atomic Cluster Collisions"*



ISACC 2019

School of Physical Sciences, University of Kent
Canterbury, United Kingdom
July 31 – August 03, 2019



FIRST ANNOUNCEMENT

Scope

The ninth International Symposium "Atomic Cluster Collisions" (ISACC 2019) will take place in July 31-August 3 2019 at the School of Physical Sciences, University of Kent. The ISACC 2019 will be co-organized by the University of Kent, Canterbury CT2 7NH, United Kingdom and the MBN Research Center, Frankfurt am Main, Germany.

ISACC started as an international symposium on atomic cluster collisions in St. Petersburg, Russia in 2003. The second ISACC was held at the GSI, Darmstadt, Germany in 2007. Both first and second symposia were satellites of the International Conferences on Photonic Electronic and Atomic Collisions (ICPEAC). The third ISACC has returned to St. Petersburg, Russia in 2008 and was organized as a separate conference. The fourth ISACC took place in Ann Arbor, Michigan, USA in 2009; the fifth ISACC - in Berlin, Germany in 2011; the sixth ISACC - in Wuhan, China in 2013; the seventh - in Madrid, Spain in 2015. All four were satellite of the ICPEAC. The eighth symposium was held in Varadero, Cuba in 2017. The ninth ISACC symposium will be held just after the ICPEAC2019 (Normandy, France, July 23-30, 2019).

The ISACC2019 will promote the growth and exchange of scientific information on the structure, properties and dynamics of complex nuclear, atomic, molecular, cluster, nanoscopic and biological systems studied primarily by means of photonic, electronic, heavy particle and atomic collisions. In the symposium, particular attention will be devoted to dynamical phenomena, many-body effects taking place in clusters, nanostructures, molecular and biological systems, which include problems of fusion and fission, fragmentation, collective electron excitations, phase transitions, radiation damage and many more. Both experimental and theoretical aspects of cluster physics uniquely placed between nuclear physics on one hand and atomic, molecular and solid state physics on the other will be subject of the symposium. Particular attention at the Symposium will be devoted to the utilization of advanced computational techniques and high performance computing in studies of collisions involving complex molecular systems. Links of the ISACC topics to novel and emerging technologies will be an important focus of the ISACC2019.

Finally, ISACC 2019 will provide a platform to host discussions about current research, technological challenges and related initiatives within the ISACC Topical Areas.

Topical Areas of ISACC:

- ◆ Structure and dynamics of atomic clusters and nanoparticles
- ◆ Structure and dynamics of biomolecules
- ◆ Cluster structure and dynamics on a surface
- ◆ Cluster-molecule interactions, reactivity and nanocatalysis
- ◆ Clustering in systems of various degrees of complexity
- ◆ Clusters and biomolecules in external fields: electric, magnetic, laser etc.
- ◆ Electron and photon cluster collisions
- ◆ Ion-cluster collisions
- ◆ Collision processes with biomolecules
- ◆ Cluster and biomolecular research with Free Electron Lasers

Scientific Program

The scientific program for ISACC 2019 will consist of interdisciplinary sessions, which will include invited lectures, review talks and progress reports. A number of hot topic reports will be chosen by the International Advisory Committee of the ISACC 2019 from the submitted abstracts. Other contributions will be presented in a poster session. Suggestions about possible candidates for invited speakers should be sent to the Chairmen of the ISACC 2019. The list of invited speakers will be distributed with the second announcement.

Important Dates

Distribution of the first announcement	September 17, 2018
Distribution of the second announcement	March 01, 2019
Deadline for early-bird registration	May 01, 2019
Deadline for registration	June 01, 2019
Deadline for abstract submission	June 01, 2019

Deadline for hotel reservation
Distribution of the final announcement

June 01, 2019
July 01, 2019

Conference Venue and Travel Information

The Conference will be hosted by the School of Physical Sciences, University of Kent, Canterbury CT2 7NH, United Kingdom.



The School of Physical Sciences (SPS) and the University of Kent is delighted to welcome ISACC 2019 to its campus and the city of Canterbury. The University has recently celebrated its 50th anniversary, being one of the UK Universities established in the 1960s which today are amongst the most research active centres in the UK. SPS research covers theoretical condensed matter physics, applied optics, materials sciences, astronomy and planetary science and is one of the UK's leading centres of forensic science. Furthermore in 2018 the University was approved to form a medical school, with SPS and other schools in the Faculty of Science establishing supporting research programmes in bioscience and technology. It is therefore entirely fitting for SPS to host ISACC whose fundamental research underpins so many of the applied areas of SPS research.

The conference will be held on the University's green campus outside the city of Canterbury. Canterbury is one of the UK's oldest cities (predating Roman arrival) befitting its role as capital of Kent, the Gateway to UK from Europe, hence easy travel links from ICPEAC. Canterbury and its cathedral is also the ecclesiastical centre of the Church of England.

We look forward to welcoming you to Kent and showing you our research facilities and sharing with you something of the rich heritage of Canterbury.

Detailed information on how to reach the conference venue will be circulated closer to the arrival date.

Registration

The detail information about the registration will be distributed with the ISACC Second Announcement.

A number of rooms will be reserved at the hotels for conference participant.

Conference Program

Wednesday, 31 July 2019

	Registration, Scientific Programme and Welcome Reception
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Thursday, 01 August 2019

	Scientific Programme
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Friday, 02 August 2019

	Scientific Programme
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Saturday, 03 August 2019

	Scientific Programme
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Accommodation

Befitting its role as a pilgrimage centre the city of Canterbury has a wide range of accommodation from Student halls on campus to 4/5* hotels in the city as well as many Bed and Breakfast. A listing of some venues will be placed on the website but any booking sites will give you a rich choice.

Official Invitation and Visa

Conference participants are advised to check the passport and visa requirements for travel to the United Kingdom.

Conference Language

The language of the conference is English.

International Advisory Committee

- ◆ A.V. Solov'yov (MBN Research Center, Frankfurt am Main Germany), **Chair**
- ◆ C. Brechignac (Laboratoire Aime Cotton, CNRS, Orsay, France)
- ◆ M. Broyer (University of Lyon, France)
- ◆ J.-P. Connerade (Imperial College London, London, UK)
- ◆ F. Gianturco (University of Rome "La Sapienza", Rome, Italy)
- ◆ B. Huber (Centre Interdisciplinaire de Recherche Ions Lasers, CIRIL - GANIL, Caen, France)
- ◆ J. Jellinek (Argonne National Laboratory, Argonne, Illinois, USA)
- ◆ S. Khanna (Virginia Commonwealth University, Virginia, USA)
- ◆ T. Moeller (Institut für Optik und Atomare Physik, TU, Berlin, Germany)
- ◆ E. Suraud (Université Paul Sabatier, Toulouse, France)

Organizing Committee

- ◆ Nigel Mason, Co-Chair (University of Kent, Canterbury, United Kingdom), **Co-Chair**
- ◆ Sharon Humm, (University of Kent, Canterbury, United Kingdom), **Local Organising Committee Secretary**
- ◆ Andrey V. Solov'yov, Co-Chair (MBN Research Center, Frankfurt am Main, Germany), **Co-Chair**
- ◆ Andrei V. Korol (MBN Research Center, Frankfurt am Main, Germany)
- ◆ Irina Solovyeva (MBN Research Center, Frankfurt am Main, Germany)
- ◆ Alexey Verkhovtsev (MBN Research Center, Frankfurt am Main, Germany)
- ◆ Pablo de Vera (MBN Research Center, Frankfurt am Main, Germany)

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ISACC Conference Series Web Portal

Updated information on the conference is available at the following internet address:

www.isacc-portal.org

Conference e-mail

isacc@gmail.com

Sponsors

The conference will be held under the auspices of the following sponsors:

- ◆ University of Kent, Canterbury, United Kingdom
- ◆ MBN Research Center, Frankfurt am Main, Germany