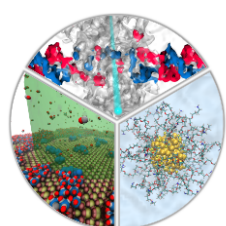


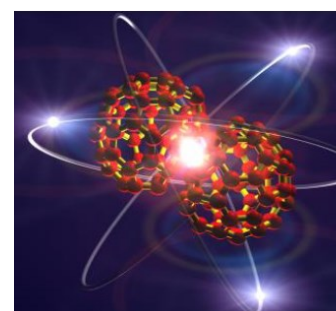
The Final Conference of the COST Action
*"Multiscale Irradiation and Chemistry
Driven Processes and Related Technologies"*

and

the 12th International Symposium
"Atomic Cluster Collisions"



COST Action CA20129
MultIChem



MultIChem-ISACC 2025

Heidelberg, Germany
July 14-18, 2025



First Announcement

Scope

The final conference of the [COST Action CA20129 MultiChem](#) (“[Multiscale Irradiation and Chemistry Driven Processes and Related Technologies](#)”) and the [12th International Symposium “Atomic Cluster Collisions” \(ISACC\)](#) will be jointly organised under the title “**MultiChem-ISACC 2025 Conference**”.

The conference will be held on **July 14-18, 2025** in Heidelberg, Germany. It is co-organized by the [Heidelberg University](#) and the [MBN Research Center](#) (Frankfurt am Main, Germany).

The COST Action MultiChem has brought together experts from different disciplines, such as physics, chemistry, biology, and nanoscience, specialising in theoretical, experimental and computational multiscale modelling studies of irradiation-driven chemistry processes and phenomena involving complex molecular (including cluster) systems exposed to radiation.

The scope of MultiChem and its annual conferences is closely linked to the topical areas of the ISACC conference series.

A series of International Symposia “Atomic Cluster Collisions: structure and dynamics from the nuclear to the biological scale” started in 2003, and [eleven ISACC conferences have been held so far](#). The most recent ISACC conference was held in Hveragerði, Iceland, in July 2023.

The ISACC conference series promotes the growth and exchange of scientific information on the structure, dynamics and properties of complex atomic, molecular, cluster, nanoscopic and biological systems studied primarily by means of photonic, electronic and atomic collisions. Particular attention is paid to dynamical phenomena and many-body effects taking place in clusters, nanostructures, molecular and biological systems. These include problems of fusion and fission, fragmentation, collective electron excitations, phase transitions, radiation damage, and many others.

The joint MultiChem-ISACC 2025 conference will cover experimental, theoretical and applied aspects of atomic cluster physics and the above-mentioned topics. Particular attention will also be given to the use of advanced computational techniques and high-performance computing for studying the above-mentioned phenomena and effects. The links of the ISACC and MultiChem topics to novel and emerging technologies will be an important focus of the MultiChem-ISACC 2025 conference.

Finally, the conference will provide a platform for discussions on current research, technological challenges and related initiatives within the MultiChem and ISACC topical areas.

Topical Areas of ISACC & MultiChem:

- Structure and dynamics of atomic clusters and nanoparticles
- Structure and dynamics of biomolecules
- Reactivity and nanocatalysis
- Clustering in systems of various dimensionality and degrees of complexity
- Photon, electron and ion collisions with free atomic clusters and nanoparticles
- Radiation-induced phenomena with deposited metal clusters and nanoparticles, and nanoparticles placed in a molecular environment
- Photon, electron and ion collisions with biomolecules, molecular and biomolecular clusters
- Complex collision, radiative and fragmentation processes
- Clusters and biomolecules in external fields: electric, magnetic, laser etc.
- Cluster and biomolecular research with free-electron lasers
- Related technological applications

Important Dates

Distribution of the first announcement	November 29, 2024
Distribution of the second announcement	March 01, 2025
Distribution of the final announcement	June 15, 2025
Deadline for early-bird registration	May 01, 2025
Deadline for abstract submission	June 01, 2025

MultIChem-ISACC 2025 Program

The scientific program of MultIChem-ISACC 2025 will consist of interdisciplinary sessions including invited lectures, review talks and progress reports. A number of hot topic reports will be selected by the International Advisory Committee from the submitted abstracts. Other contributions will be presented in a poster session. Suggestions for possible candidates for invited speakers should be sent to the Chairs of the MultIChem-ISACC 2025 Conference. The list of invited and confirmed speakers will be distributed with the second announcement.

The scientific sessions will be followed by the MultIChem Management Committee meeting on Friday, July 18 to discuss recent and upcoming activities of the Action.

Monday, July 14

08 ⁰⁰ – 09 ¹⁵	Participants registration
09 ¹⁵ – 09 ³⁰	MultIChem-ISACC 2025 Opening
09 ³⁰ – 18 ⁰⁰	Scientific sessions (presentations)
19 ⁰⁰ – 21 ⁰⁰	Welcome reception

Tuesday, July 15

09 ³⁰ – 18 ⁰⁰	Scientific sessions (presentations)
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Wednesday, July 16

09 ³⁰ – 16 ⁰⁰	Scientific sessions (presentations)
16 ³⁰ – 18 ⁰⁰	Poster session

Thursday, July 17

09 ³⁰ – 18 ⁰⁰	Scientific sessions (presentations)
19 ⁰⁰ – 22 ⁰⁰	Conference dinner

Friday, July 18

09 ³⁰ – 13 ⁰⁰	Scientific sessions (presentations)
13 ⁰⁰ – 13 ¹⁵	MultIChem-ISACC 2025 Closing
14 ³⁰ – 16 ⁰⁰	MultIChem Management Committee Meeting

Conference Venue and Travel Information

The MultIChem-ISACC 2025 conference will be held at the [International Academic Forum Heidelberg \(IWH\)](#), an interdisciplinary centre for academic exchange affiliated to the Heidelberg University. The address of the venue is [Hauptstraße 242, 69117 Heidelberg](#).

Heidelberg is located about 80 km south of Frankfurt and about 20 km south-east of Mannheim, a major hub on the German high-speed rail network with connections to many European cities, including Berlin, Munich, Cologne, Paris, Amsterdam, Basel, and many others. Heidelberg is directly accessible from Frankfurt and Mannheim by regional trains of Deutsche Bahn.

Heidelberg is one of Germany's recognised centres of science and is home to several internationally renowned research institutions. Heidelberg University, founded in 1386, is the oldest university in Germany. The city has also been a centre for the arts, particularly literature, for centuries, and it was designated a "City of Literature" by the UNESCO's Creative Cities Network. Heidelberg was the seat of government of the former Electorate of the Palatinate and is a popular tourist destination due to its romantic cityscape, including [Heidelberg Castle](#), the Baroque [old town](#), and the [Philosophers' Walk \(Philosophenweg\)](#) trail with scenic views of the old town and the castle.

Detailed travel information and further information on how to reach the conference venue will be distributed with the second announcement.

Registration

The **early-bird** registration fee for the MultiChem-ISACC 2025 conference is **450 €** for all participants. After the early-bird registration deadline of **May 01, 2025** the conference fee will be **550 €**.

The registration fee includes coffee breaks, lunches, the conference reception, and the conference dinner.

There will be a separate fee for accompanying persons, which will cover the conference reception and dinner. Please contact the conference organisers (isacc.conference@gmail.com) for further information regarding accompanying persons.

The payment to the order of “MultiChem-ISACC 2025” can be made **by bank transfer** to

Bank Account Name:	MBN Research Center gGmbH
Bank Name:	Deutsche Bank
Branch Address:	Hauptstr. 561462 Koenigstein Germany
IBAN:	DE15500700240137588000
BIC:	DEUTDEDBFRA

Please quote your **NAME** and **MultiChem-ISACC** on the transfer. Please ensure there are no charges to the organisers. If you need an invoice for the payment or want to pay with a credit card, please send a short email to isacc.conference@gmail.com.

Financial support via COST

The MultiChem COST Action provides financial support to reimburse MultiChem members – participants of the conference for their expenses related to their participation in the conference. Detailed information about the COST reimbursement rules can be found in the [Annotated Rules for COST Actions](#) (see Section A1-3.1 “Travel reimbursement rules”, pp. 82-90).

The number of participants to be reimbursed is limited by the MultiChem budget allocated for this meeting. In order to be reimbursed, you must receive an official invitation through e-COST indicating that you are eligible for the reimbursement. Invitations will be sent to conference participants who have completed the registration on the conference website and paid the registration fee.

When arranging your travel and accommodation, please consider the following rules (see the Annotated Rules for COST Actions for complete and detailed information):

- Any transport you take in your country (airplane, train, bus, car...) is reimbursed based on the supporting documents provided (tickets for flights, trains and buses; proof of distance for car travel, e.g. by Google maps). Taxi, car rental, fuel and parking expenses are not eligible.
- Your stay in Germany should be covered under the [flat-rate Daily Allowance \(DA\)](#). The DA is intended to cover accommodation, meals and transport in the host country. No receipts will be required.
- The maximum DA rate that can be claimed is calculated according to the actual number of days you attend the meeting (max. 3 days), as confirmed by your signature on the official attendance list for each day of the meeting, plus one day.
- On travel days, the DA is based on departure and arrival times (see pp. 83-84 of the Annotated Rules for COST Actions).

Official Invitation and Visa

Conference participants are advised to check the passport and visa requirements for travel to Germany well in advance.

Organizing Committee

- Andrey Solov'yov (MBN Research Center, Germany) – **Co-Chair**
- Michael Hausmann (Heidelberg University, Germany) – **Co-Chair**
- Irina Solovyeva (MBN Research Center, Germany)
- Alexey Verkhovtsev (MBN Research Center, Germany)

MultiChem-ISACC 2025 International Advisory Committee

- Andrey V. Solov'yov (MBN Research Center, Frankfurt, Germany) – **IAC Chair**
- Catherine Bréchnignac (Laboratoire Aime Cotton, CNRS, France)
- Michel Broyer (University of Lyon, France)
- Jean-Patrick Connerade (Imperial College London, United Kingdom)
- Francesco Gianturco (University of Innsbruck, Austria)
- Michael Hausmann (Heidelberg University, Germany)
- Bernd Huber (Centre Interdisciplinaire de Recherche Ions Lasers, CIRIL - GANIL, France)
- Julius Jellinek (Argonne National Laboratory, USA)
- Shiv Khanna (Virginia Commonwealth University, USA)
- Nigel Mason (University of Kent, United Kingdom)
- Thomas Möller (Technical University of Berlin, Germany)
- Richard Palmer (Swansea University, United Kingdom)
- Jefferson Shinspaugh (East Carolina University, Greenville, USA)
- Eric Suraud (Université Paul Sabatier, France)

Contact Information

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MultiChem-ISACC 2025 Co-Chair

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Prof. Dr. Michael Hausmann

MultiChem-ISACC 2025 Co-Chair

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Website: <https://www.kip.uni-heidelberg.de/biophysik/?lang=en>

Conference Web Page

Information on the MultiChem-ISACC 2025 conference and the registration will be open on December 15, 2024 on the web portal of the ISACC conference series, <https://www.isacc-portal.org/>.

MultiChem-ISACC 2025 Conference e-mail

isacc.conference@gmail.com