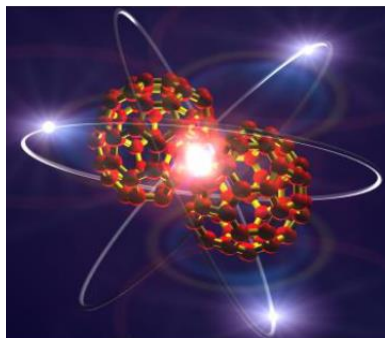
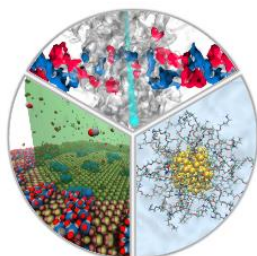


**The 11th International Symposium
"Atomic Cluster Collisions"
ISACC 2023**



and

**Workshop of the COST Action CA20129
"MultiChem"**



**COST Action CA20129
MultiChem**



**Hotel Örk
Hveragerði, Iceland
July 20-22, 2023**

FIRST ANNOUNCEMENT

Scope

The 11th International Symposium [“Atomic Cluster Collisions”](#) (ISACC 2023) and a thematically-related Workshop of the [COST Action CA20129 “Multiscale Irradiation and Chemistry Driven Processes and Related Technologies”](#) (MultiChem) will take place on **July 20-22, 2023** in Hveragerði, Iceland.

The meeting is organized by MBN Research Center (Frankfurt am Main, Germany), Carl von Ossietzky University of Oldenburg (Oldenburg, Germany) and the University of Kent (Canterbury, United Kingdom).

A series of International Symposia “Atomic Cluster Collisions: structure and dynamics from the nuclear to the biological scale” started in 2003, and ten ISACC conferences have been [held so far](#). The latest ISACC conference was organized in October 2021 jointly with the sixth International Conference [“Dynamics of Systems on the Nanoscale”](#) (DySoN) under the title “DySoN-ISACC 2021”.

Most of the ISACC conferences were satellites of the International Conferences on Photonic Electronic and Atomic Collisions (ICPEAC). The ISACC 2023 will be held just before the [ICPEAC 2023](#) conference (Ottawa, Canada, July 25-August 01, 2023).

The ISACC conference series promotes 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 and atomic collisions. Particular attention is devoted 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 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 ISACC 2023 symposium. Particular attention at the Symposium will be devoted to the utilization of advanced computational techniques and high-performance computing for studying the aforementioned phenomena and effects. Links of the ISACC topics to novel and emerging technologies will be an important focus of the ISACC 2023.

Finally, ISACC 2023 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
- Reactivity and nanocatalysis
- Clustering in systems of various dimensionality and degrees of complexity
- Electron-, photon- and ion collisions with clusters and nanoparticles
- Electron-, photon- and ion collisions with biomolecules
- 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 and medical applications

The **MultiChem Workshop** will focus on experimental, theoretical and computational modeling studies of irradiation- and chemistry driven multiscale phenomena. The focus will be made on the following research studies relevant to technological applications discussed within the MultiChem COST Action:

- Photon, electron and ion beam irradiation of isolated biomolecules in the gas phase
- Photon, electron and ion beam irradiation of molecular and biomolecular clusters
- Photon, electron and ion beam irradiation of deposited metal clusters and nanoparticles, and nanoparticles placed in a molecular environment.

Important Dates

Distribution of the first announcement	November 30, 2022
Distribution of the second announcement	April 01, 2023
Distribution of the final announcement	June 01, 2023
Deadline for early-bird registration	May 01, 2023
Deadline for hotel reservation	May 01, 2023
Deadline for abstract submission	June 15, 2023

Scientific Program

The scientific program for ISACC 2023 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 2023 from the submitted abstracts. Other contributions will be presented in a poster session.

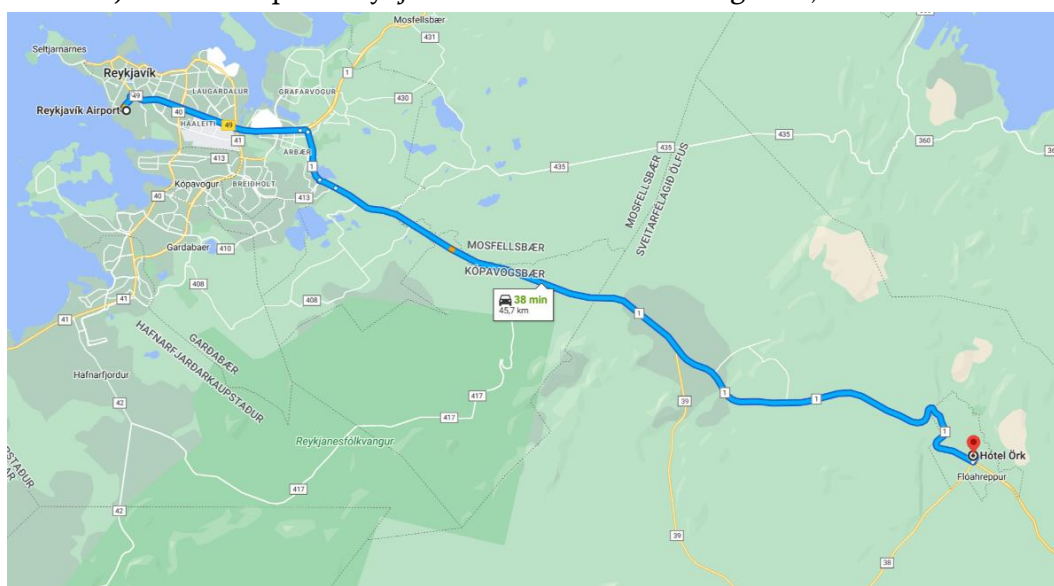
Suggestions about possible candidates for invited speakers should be sent to the Chairpersons of the ISACC 2023 and the MultiChem Workshop. The list of invited speakers will be distributed with the second announcement and added to the conference website.

Conference Venue and Travel Information

The Conference will be hosted by [Hotel Örki](#), Breiðumörk 1c, 810 Hveragerði, Iceland.



The hotel is located in [Hveragerði](#), one of Iceland's most popular destinations known as “**The Hot Spring Town**”. The town known for its geothermal area with active hot springs is located in the south of Iceland, 45 km east (30 minutes) from the capital Reykjavík on Iceland's main ring road, Route 1.



Detailed information on how to reach the conference venue will be circulated with the second announcement.

Registration

The **early-bird** participation fee for the ISACC 2023 conference is **450 €**. After the early bird registration deadline on **May 01, 2023** the conference fee will amount **550 €**.

The registration fee includes access to the conference venue, poster session, coffee breaks, lunches, dinners on July 20 and 22, and the conference dinner on July 21.

The payment to the order of "ISACC 2023" 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 **ISACC2023** on the transfer. Please ensure there are **NO** charges to us. 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.

Conference program

Thursday, July 20, 2023	Registration (morning) Scientific Programme (morning and afternoon sessions)
Friday, July 21, 2023	Scientific Programme (ISACC, morning sessions) Scientific Programme (MultiChem Workshop) Conference Dinner
Saturday, July 22, 2023	Scientific Programme (MultiChem Workshop)

Accommodation

A limited number of rooms has been reserved at the Hotel Örk for conference participants. We advise the participants to register for the conference and the hotel at their earliest convenience.

Accommodation includes breakfast as well as access to a swimming pool, hot tubs, steam, and wireless internet. Please book accommodation directly with the Hotel Örk (booking@hotelork.is) and quote "MBN23" to book one of the following rooms:

Room type	No. of people staying	Price per night	
		Icelandic Krónas (ISK)	EUR
Superior (27 m ²) *	1	25.291	170
	2	36.285	244
	3/4	41.785	281

*A surcharge for a superior balcony or terrace is 3,000 ISK (20 EUR) per night.

The rooms will be reserved until May 01, 2023 and will then be released, so please book early.

Further information on other types of rooms available at the hotel can be found [here](#).

Official Invitation and Visa

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

International Advisory Committee

- Andrey V. Solov'yov (MBN Research Center, 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)
- 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 Shinpaugh (East Carolina University, Greenville, USA)
- Eric Suraud (Université Paul Sabatier, France)

Organizing Committee

- Andrey Solov'yov (MBN Research Center, Germany) – **Chair**
- Nigel Mason (University of Kent, United Kingdom)
- Luca Gerhards (Carl von Ossietzky University of Oldenburg, Germany)
- Ilia Solov'yov (Carl von Ossietzky University of Oldenburg, Germany)
- Alexey Verkhovtsev (MBN Research Center, Germany)

Sponsors

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

- [MBN Research Center](#), Frankfurt am Main, Germany
- [H2020-MSCA-RISE Project “RADON”](#)

MultiChem Workshop

Participants of ISACC 2023 are highly encouraged to participate in the MultiChem Workshop which will take place at the same venue. It is also envisaged that participants of the Workshop will attend the ISACC sessions on July 20 and in the morning of July 21.

Partial financial support will be provided to participants of the Workshop via the [MultiChem COST Action](#) to partially support their travel to Iceland and local accommodation expenses (for two days of the MultiChem Workshop + one travel day). More detailed information on financial support will be provided with the second announcement of ISACC 2023.

Contact Information

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ISACC Conference Web Page

Updated information on the ISACC 2023 and the whole ISACC conference series is available at www.isacc-portal.org.

Conference e-mail

isacc.conference@gmail.com