



ECAART 14

14th European Conference on Accelerators in Applied Research and Technology (ECAART14)

July 17-23, 2022 – Sibiu, Romania

First circular of 2022

General information

Dear Colleagues,

We are pleased to announce that the **14th European Conference on Accelerators in Applied Research and Technology (ECAART14)** will be held between **17th and 23rd of July, 2022 in Sibiu, Romania**. On the 23rd of July (Saturday), for those willing to participate, we have the possibility to offer a trip to visit our institute which is located at Magurele near Bucharest.

The Conference is organized by the **Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering (IFIN-HH)** in cooperation with **Brukenthal National Museum**. We aim to organize the conference with the **physical presence of all participants**. Although, depending on the health conditions due to the covid pandemic in the coming months, the format of the conference may be adapted using a hybrid approach – physical presence and online or the conference postponed.

IFIN-HH is one of the most important public R&D organizations in Romania. The institute is dedicated to the research and development in physical and natural sciences, mainly Nuclear Physics and Nuclear Engineering, and in related areas including Astrophysics and Particle Physics, Field Theory, Mathematical and Computational Physics, Atomic Physics and Physics of Condensed Matter, Life and Environmental Physics.

Brukenthal National Museum is the first museum established in Romania and Central Europe, in 1817. It owes its existence to one of the most important personalities in Transylvania: Baron Samuel von Brukenthal, the governor of the province in the second half of the eighteenth century.

The ECAART Conference is held every three years and is the most relevant scientific meeting for professionals working in the field of accelerator based research.

It is an important forum where scientists and students from all over the world present their most recent work and discuss future prospects in application of accelerators in a

variety of scientific and industrial fields such as, material science, art, archeology, life science, environment, etc.

Scientific Programme

ECAART14 will comprise oral and poster contributions on the latest scientific and technological results and will be supplemented by high level invited presentations. Authors are encouraged to submit abstracts of original and unpublished work of the listed conference topics. The official language of the conference is English, which will be used for all presentations and printed materials.

Important Dates

- Abstract submission deadline: **May 9th, 2022**
- Notification of accepted abstracts: **May 20th, 2022**
- Early bird registration deadline: **June 6th, 2022**
- Preliminary program available online: **July 1st, 2022**
- Manuscript submission open: **June 22nd, 2022**
- Deadline for manuscripts submission: **September 9th, 2022**

Proceedings

Proceedings will be published as a special issue of the journal “Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms” (Elsevier B.V.).

Topics

- Simulation and fundamentals
- Accelerator technology and development
- Ion beam analysis
- Ion beam modification of materials
- Accelerator Mass Spectrometry
- Synchrotron radiation
- Applications to life science
- Applications to art and archeology
- Radiation effects on electronics
- Quantum technology applications
- High-power laser driven accelerators

International Committee

- **Lucile Beck**, CEA, Paris, France
- **Klaus Bethge†**, Goethe University, Frankfurt, Germany
- **Thomas Calligaro**, CNRS, Paris, France
- **Ferenc Ditroi**, Institute for Nuclear Research, Debrecen, Hungary
- **Max Döbeli**, ETH, Zürich, Switzerland
- **Alexander F. Gurbich**, Institute for Physics and Power Engineering, Obninsk, Russia
- **Jyrki Räsänen**, University of Helsinki, Finland
- **Walter Kutschera**, Universität Vienna, Austria
- **Mats Lindroos**, European Spallation Source, Sweden
- **Pier Andrea Mandò**, INFN, Florence, Italy
- **Michael Kokkoris**, National Technical University of Athens, Greece
- **Maria Adelaide de Almeida Pedro de Jesus**, Universidad de Nova de Lisboa, Portugal
- **Miguel Angel Respaldiza Galisteo**, Universidad de Sevilla, Spain
- **David Strivay**, Université de Liège, Belgium
- **Guy Terwagne**, Université de Namur, Belgium
- **Roger Webb**, University of Surrey, United Kingdom
- **Timo Sajavaara**, University of Jyväskylä, Finland
- **Zdravko Siketic**, Ruder Boskovic Institute, Croatia

Invited speakers

Please find below the invited speakers that confirmed their participation.

- **Prof. David Jamieson**, School of Physics, The University of Melbourne, Australia
- **Prof. Jonathan England**, Ion Beam Center, Advanced Technology Institute, University of Surrey, Guildford, Surrey, UK
- **Dr. Christine Hatté**, Silesian University of Technology, Gliwice, Poland & Laboratoire des Sciences du Climat et de l'Environnement, Université Paris-Saclay, France
- **Dr. Martin Martschini**, VERA laboratory-Isotope Physics, Faculty of Physics, University of Vienna, Austria
- **Dr. Mikko Laitinen**, Department of Physics, Accelerator Laboratory, University of Jyväskylä, Finland
- **Dr. Maria Teresa Pinheiro**, Institute for Bioengineering and Biosciences, Department of Engineering and Nuclear Sciences Instituto Superior Técnico, Universidade de Lisboa, Portugal
- **Prof. Marco Durante**, Biophysics Department, GSI Helmholtzzentrum für Schwerionenforschung, Darmstadt, Germany
- **Dr. Luca Labate**, Istituto Nazionale di Ottica (INO)Consiglio Nazionale delle Ricerche (CNR) Pisa, Istituto Nazionale di Fisica Nucleare (INFN), Italy

We will update this information on the conference website once we have confirmation from all our invited speakers.

Conference Chairs

- **Ion Burducea**, IFIN-HH (chair)
- **Dan Gabriel Ghita**, IFIN-HH (co-chair)
- **Adrian-Sabin Luca**, Brukenthal National Museum (co-chair)
- **Mihai Straticiuc**, IFIN-HH (co-chair)
- **Gihan Velisa**, IFIN-HH (co-chair)

Special events

We have planned an excursion in beautiful city of Sighișoara. On the 23rd of July (Saturday) we also have the possibility to offer a trip from Sibiu to Magurele near Bucharest for the participants willing to visit our institute. This is different from the conference trip that will be organized for all the participants.

Venue, attractions

The conference will be held in **Sibiu**, which is located right in the center of the country, in southern Transylvania. Sibiu International Airport offers direct connection with several cities from Europe like Madrid, London, Munich, Vienna, Milan, Bruxelles, etc. More information can be found here: <https://www.sibiuairport.ro/en/>
Updated details will be soon available on the conference website.

Accommodation

There is a variety of beautiful hotels in Sibiu. Information regarding accommodation and booking process will be soon available on the conference website. <https://ecaart14.nipne.ro>

Registration

Information regarding the conference registration fee and their benefits can be found on the conference website, here: <https://indico.nipne.ro/event/160/>

Information regarding the payment options will be soon available on the conference website. Registration is now open. Please use the following link to register:

<https://indico.nipne.ro/event/160/registrations/3/>

Contact:

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- Adrian-Sabin Luca, Brukenthal National Museum (co-chair) sabin.luca@brukenthalmuseum.ro
- Mihai Straticiuc, IFIN-HH (co-chair) mihai.straticiuc@nipne.ro
- Gihan Velisa, IFIN-HH (co-chair) gihan.velisa@nipne.ro

Conference secretariat

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