



Integrating Access to Pan-European Research Infrastructures in Central and Eastern Europe

Workshop organised by

**the Institute for Nuclear Research, Hungarian Academy of Sciences,
the Wigner Research Centre for Physics, Hungarian Academy of Sciences
and the European Physical Society
in frames of the International Year of Light**

Debrecen, Hungary, 30 November – 2 December 2015

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Scope

Large-scale research infrastructures (RI) are increasingly needed by science, technology and education. The biggest and most powerful ones of such RIs in physical and engineering sciences are, as a rule, beyond the needs and financial possibilities of one nation and are, therefore, built and operated in frames of an international collaboration. Besides the most powerful accelerators in high-energy and nuclear physics, giant lasers, major neutron sources, synchrotrons, free-electron lasers, special telescopes, and some others belong to this class of RIs. Examples are ESRF, ILL, the European XFEL, FAIR, etc.

Although most international RIs are of open-access character and individual proposals for using those facilities are, in principle, refereed exclusively on the basis of scientific excellence, a long-term access is, understandably, made only possible for scientists of full or associate members of the international RI. The condition of membership is usually a minimum contribution of 1–4 % of the budget of the RI. Unfortunately, small and medium-size countries cannot afford paying the high membership fee and, therefore, their scientists are handicapped in using the best European RIs.

An obvious and well-known solution of this problem is forming consortia of shareholders from small and medium-size countries that may be able to meet the condition of the minimum membership fee. Indeed, such consortia have already been created and are successfully operating. Examples are Centralsync, a consortium of the Czech Republic, Hungary and Slovakia to ESRF and CENI, a consortium of Austria, the Czech Republic, Hungary and Slovakia to ILL.

So far consortia have always been formed in a troublesome bottom-up process. In 2014, the European Physical Society (EPS) launched the INARIE project to foster the formation of consortia of governmental shareholders from small and medium-size countries to the best European RIs in physical and engineering sciences.

As an important milestone of the INARIE project, a workshop is being organised in frames of the International Year of Light by the Institute for Nuclear Research, Hungarian Academy of Sciences (Debrecen), the Wigner Research Centre for Physics, Hungarian Academy of Sciences (Budapest) and the European Physical Society. The workshop aims to bring together RI policy-makers of the European Commission and of European governments, the managements of major light sources and similar RIs with representatives of interest groups of scientists from Central and Eastern Europe as well as other parts of the continent. The main objective of the workshop will be to discuss the possibilities of organising consortia to major Pan-European RIs and networks of existing RIs of the region. General discussion will take place at a round-table the outcome of which will be summarised during the closing session.

Organizers

The INARIE workshop is organized by
the **Institute for Nuclear Research, Hungarian Academy of Sciences (MTA Atomki)**
the **Wigner Research Centre for Physics, Hungarian Academy of Sciences**
and the **European Physical Society**
in frames of the **International Year of Light**



Sponsors

The organizers are grateful for the confirmed sponsors
Hungarian Academy of Sciences
High Voltage Engineering Europa B.V.
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Invited speakers and participants of the round-table discussion

The following invited speakers and attendants of the round-table discussion have already confirmed their participation at INARIE:

Radu Constantinescu (Opening session)
Department of Physics, University of Craiova, Romania

Béla Faragó
Leader of the instrument group Time of Flight at ILL, Institut Laue-Langevin, Grenoble, France
"The ILL access policy, evolutions and trends"

Jürgen Fassbender
Director, Institute of Ion Beam Physics and Materials Research, Helmholtz-Zentrum Dresden-Rossendorf, Germany
"European access to ion beam facilities for materials and interdisciplinary research"

Ferenc Friedler
Deputy Chair, National Research, Development and Innovation Office, Budapest, Hungary

Philippe Froissard
Deputy Head of Unit for Research Infrastructures, DG Research & Innovation, European Commission, Brussels, Belgium
"European Research Infrastructure Policy - possible next steps supporting the widening of partnerships and increasing sustainability of RIs"

László Lovász (to inaugurate the Tandetron Laboratory)
President, Hungarian Academy of Sciences, Budapest, Hungary

Edward Mitchell
Head, Business Development Office, European Synchrotron Radiation Facility (ESRF), Grenoble, France
"Commercial use of European research infrastructures: a win-win scenario?"

Stefano Ragazzi
Director, Laboratori Nazionali del Gran Sasso, Assergi L'Aquila, Italy

Carlo Rizzuto
Chair and Executive Director, CERIC-ERIC, Trieste, Italy
"The international integration of national efforts in Research Infrastructures in Centre East Europe: the case of CERIC-ERIC"

Christophe Rossel (to give final remarks)
President of the European Physical Society and EPS Fellow, Member of the Swiss Academy of Engineering Sciences, IBM Research-Zurich, Science and Technology Dept, Rüschlikon, Switzerland

Wolfgang Sandner
Director, ELI Delivery Consortium, DESY - Standort Zeuthen, Germany
"Extreme Light Infrastructure ELI: open access to world-class research combined with the socio-economic impact of a European key technology"

Boris Sharkov
Scientific Managing Director, Chairman of the Management Board, Facility for Antiproton and Ion Research in Europe FAIR GmbH, Darmstadt, Germany
"International FAIR - platform for efficient interdisciplinary scientific co-operation"

Jonathan Tennyson
Chair, European Task Force on Laboratory Astrophysics: ETFLA, London, UK
"Research Infrastructure for European Laboratory Astrophysics"

Ioan Ursu
ELI-NP, Horia Hulubei National Institute of Physics and Nuclear Engineering (IFIN-HH), Magurele, Romania

Edgar Weckert
Director in charge of Photon Science, Deutsches Elektronen Synchrotron (DESY), Hamburg, Germany
"Investigating the Structure and Dynamics of Matter Using Brilliant Synchrotron and FEL Sources"

John Womersley
Chair, European Strategy Forum on Research Infrastructures (ESFRI), Science and Technology Facilities Council, UK
"European Research Infrastructures - the perspective from ESFRI"

Travel

The INARIE workshop will take place from noon 30 November to noon 2 December 2015 at MTA Atomki, the Institute for Nuclear Research of the Hungarian Academy of Sciences in Debrecen. The venue can be easily reached from the Liszt Ferenc International Airport, Budapest by a shuttle-ride of less than 3 hours.

There is also a small regional airport in Debrecen, which is connected to London Luton airport seven times a week, to Eindhoven and Milan twice a week. Debrecen can be conveniently reached also by InterCity trains. Finally, there is a good motorway connection should one prefer a trip by car.

Related programme

Atomki will inaugurate its new 2 MV Tandetron ion accelerator, dedicated mainly to ion-beam analysis of materials as well as various fields of basic research e.g. nuclear astrophysics, in frames of the workshop. National Instruments Ltd (<http://www.ni.com/>), a major international company producing electronic instruments for science and industry and having its biggest factory in Debrecen will invite the participants to an evening site visit. The second evening will be devoted to visit the AGORA Science Park (<http://www.agoradebrecen.hu/>), one of Debrecen's novel attractions. Finally, the participants will have the opportunity to visit the Atomki laboratories.

Prices

Registration fee: 100 EUR (Includes: Attendance at all sessions, badge, abstracts, coffee breaks, 2 dinners, 3 lunches.)

Registrations will be accepted on a first-come, first-serve basis. A mix of attendees in terms of geographic origin, and disciplines will be encouraged. Registration deadline: 15 November 2015.

Payments: bank transfer to the account of MTA Atomki (preferred), or in cash at the registration desk.

Proceedings

In order to stimulate vivid discussions on new ideas and work in progress no proceedings will be published.

Accommodation

Several nearby hotels and B&B's offer a broad range of accommodation options. See the website for further information. Atomki has a guesthouse with modest accommodation and is available in limited number.

Venue

The workshop will take place in Atomki, the Institute for Nuclear Research of the Hungarian Academy of Sciences in Debrecen. Buffet lunches and coffee breaks will take place in front of the lecture hall.



Institute for Nuclear Research, Hungarian Academy of Sciences, Debrecen, Hungary

Further information on the INARIE workshop is available at <http://www.atomki.mta.hu/inarie/>.

The INARIE workshop E-mail address is: inarie@atomki.mta.hu