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Hello Summer 2023

IUT International E-Newsletter

A Window to International Activities of IUT

Volume 4, Issue No. 5

June 2023



What we read in this issue:

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IUT Hosts Conference on Research and Technology Collaboration Opportunities with CERN and SESAME

Isfahan University of Technology hosted the first international conference aimed at introducing opportunities for cooperation between Iranian researchers and international centers, specifically CERN and SESAME.



On July 5th, 2023, a one-day conference was held in collaboration with the International Affairs Department of the Ministry of Science, Research, and Technology, introducing the potentials for collaboration with CERN and SESAME in research and technology. The conference was organized by the IUT International Scientific Cooperation Center, in collaboration with IUT Departments of Physics and Chemistry, and was attended by a group of university experts and knowledge-based companies.

Dr. M. Mohammadzadeh Attar, the Vice Director of International Scientific Cooperation Center of MSRT, emphasized that introducing the areas of cooperation and capabilities of Iranian researchers to these international centers, as well as the services that these centers can provide for our country, was the foundation for this event. He pointed out that our country is a member of more than 70 international scientific institutions, for which annual membership fees are paid. It is expected that our researchers will be informed

about and benefit from the common services of international memberships.

Dr. Mohammadzadeh Attar also added that Iranian researchers can participate in international-scale particle accelerator component manufacturing activities. He said, "Common areas of cooperation with two accelerator centers in Russia have been identified to establish light source laboratories and medical accelerators. We hope that our universities and knowledge-based companies will have effective activities in this field."



The Conference on Research and Technology Collaboration Opportunities with CERN and SESAMI

Dr. Attar noted that the lack of information dissemination to our scientists has contributed to some of the scientific problems in our country. He emphasized that the organization of this event by Isfahan University of Technology, with the aim of informing and developing international scientific and research activities, is commendable and appreciated.

Dr. Peiman Mosaddegh, the Director of IUT International Scientific Cooperation Center, presented a report on the process of past gatherings. He noted that the first SESAME meeting was held in Jordan in 2001, and the second conference was held in 2003 at Isfahan University of Technology. Dr. Mosaddegh referred to some of the most important communications and activities in the field of particle physics and accelerators, both at SESAME and worldwide. He explained that the operation of the first accelerators in 2017 and the start of activities by physics and electronics students since 2020 can be considered a turning point in our accelerator activities through collaboration with these centers.

Dr. Mosaddegh noted that hosting this conference can pave the way for scientific, active, and strategic cooperation in scientific diplomacy between our country and other countries, and can foster synergy between professors and the owners of accelerator fields.

During the conference, **Professor Mahmoud Tabrizchi** introduced the history of the SESAME scientific organization and the important role that Iran plays in this organization.



The event featured prominent scientific speakers such as Professor **Giorgio Margaritondo** from Switzerland's EPFL University and **Dr. Maher Al-Attal** from the SESAME Institute in the first section.



Other notable researchers from Isfahan University of Technology, the Max Planck Institute in Germany, the Institute for Research in Fundamental Sciences, Isfahan University of Arts, and the Diamond Institute Oxford presented specialized scientific speeches in the field of accelerator component manufacturing, particle detection laboratories, and other related topics.

It is worth mentioning that there was also an exhibition of knowledge-based companies held on the side section of the conference. The exhibition aimed to showcase the capabilities of our country in the field of accelerators and advanced medical and industrial equipment.

Iran's membership in international projects related to accelerators, including being a founding member of SESAME (Synchrotron-light for Experimental Science and Applications in the Middle East) launched in

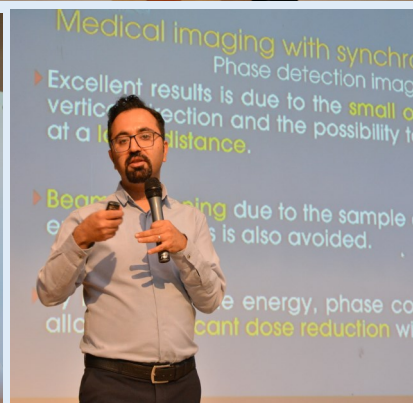
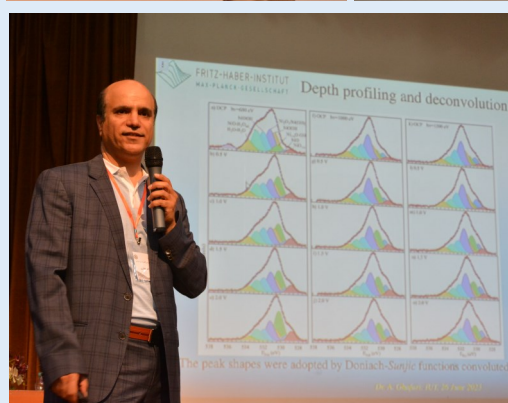


The Conference on Research and Technology Collaboration Opportunities with CERN and SESAMI

Jordan with the participation of Middle Eastern countries, can be considered a turning point in the country's industries in the field of manufacturing equipment related to beam control and guidance. This membership also provides us with a special opportunity to benefit from an advanced laboratory to study material structures.

CERN (European Organization for Nuclear Research) is the largest particle physics laboratory in the world, established in 1954 in Switzerland. It has 580 universities and research institutes from 80 countries as members. The immense CERN accelerator is the largest scientific project of mankind, in which Iran, especially Isfahan University of Technology, has played a significant role in launching the CMS laboratory of this project.

A Pictorial Recap of the CERN & SESAME Conference



IUT Signs Memorandums of Understanding with Two Turkish Universities



Isfahan University of Technology (IUT) has signed two Memorandums of Understanding for cooperation with **Istanbul Aydın University** and **Doğuş University** in Istanbul, **Turkey**. These agreements aim to increase international scientific collaborations, including the exchange of professors, students, and staff between the universities. The negotiations and efforts leading to the agreements were carried out through the IUT International Scientific Cooperation Center, under the direction of **Dr. Peiman Mossadegh**.

The agreements were signed in June 2023 and are valid for five years.

These agreements will serve as a prelude to further cooperation in exchanging professors and students within the Erasmus+ Program of the European Union.

IUT Representative Visits National Polytechnic University in Kapan, Armenia



Dr. Peiman Mosaddegh, the Director of the IUT International Scientific Cooperation Center, along with three professors from IUT and Isfahan University, recently traveled to Armenia to explore potential areas of cooperation between the National Polytechnic University of Kapan and IUT.

This trip was undertaken in response to the desire for cooperation between the two universities and to expand international scientific collaborations.

The National Polytechnic University of Kapan is the only reputable university in southern Armenia that offers programs in mining, computer engineering, economics, and information technology. It is located in the city of Kapan, which is the capital of the Syunik Province.

IUT Webinars

On June 7, 2023, the **Department of Civil Engineering** at Isfahan University of Technology organized a specialized webinar on "**Industrial Water Management**." The lecture was presented by **Prof. Dr.-Ing. Sven-Uwe Geissen**, who is the Professor and head of the Environmental Process Engineering Chair at the Department of Environmental Technology, Technical University of Berlin, Germany. Prof. Geissen has extensive experience as a lecturer and Professor at Technical University of Clausthal and currently at Nanjing University of Technology, China. He is also a member of the International Water Association (IWA) expert group and a member of the executive board of German Water Partnership. The event was coordinated and hosted by **Dr. Masoud Taheriyoun**, a faculty member of the Department of Civil Engineering at IUT.



Prof. Geissen

Advancing Scientific Collaboration:

Visit of Prof. Lipunov to Isfahan University of Technology and Iran's National Observatory

Prof. Vladimir Lipunov from Lomonosov Moscow State University, Physics Department visited Iran and Isfahan University of Technology (IUT) from June 25 to 28, 2023, to extend international scientific collaboration between Iranian National Observatory (INO) and IUT's Department of Physics. He is the head of the MASTER Global Robotic Network, which follows up observations of high-energy transient sources such as gamma-ray bursts and supernovae using nine ground-based telescopes located in five countries.



During his visit, Prof. Lipunov and **Dr. Soroush Shakeri** from IUT's Department of Physics visited the INO site on June 27 to consider different directions of collaboration in observing high-energy sources with Iranian telescopes.



On June 28, Prof. Lipunov met with **Dr. Masaddegh**, the Director of IUT's International and Scientific Cooperation Center, and **Dr. Kalantari**, the head of the Physics Department, to discuss scientific exchanges between IUT and the MASTER network in student education, astrophysical data processing, and participation in high-prestige scientific research in astrophysics.

With IUT located only 137 km away from the INO site, the university is well-placed to collaborate with INO, and the visit by Prof. Lipunov builds on previous discussions about international scientific cooperation and IUT's role as a host institution for foreign astronomers.

IUT Awards & Honors

IUT has been ranked among the most cited universities in the world.

Isfahan University of Technology (IUT) is recognized as one of the most cited universities in the world in 8 scientific fields.



Isfahan University of Technology (IUT) has been recognized as a top 1% highly cited university and research institution in multiple fields, including engineering, chemistry, materials science, agricultural sciences, plant and animal sciences, environmental and ecological sciences, biology and biochemistry, and computer science, according to the latest bi-monthly edition of the Essential Science Indicators (ESI) database published in June 2023.

Out of a total of 8,557 highly cited universities and research institutions in all subject areas, 115 universities and research institutions from the Islamic Republic of Iran have made it to the list. Iran is ranked 14th globally and has the highest share among Islamic countries after Turkey.

ESI ranks universities and research institutions in 22 subject areas based on the number of citations received for articles published in indexed journals and selects the top 1% highly cited institutions.

New Achievements in International Astronomy and Astrophysics Competition 2023



The results of the International Astronomy and Astrophysics Competition 2023 final round have been announced, and two undergraduate students in the Department of Physics at Isfahan University of Technology have been recognized for their outstanding achievements.

Yalda Ebrahimi and **Amir Hossein Movahedi Denavi**, under the supervision of **Dr. Soroush Shakeri**, obtained Silver Honor and Bronze Honor, respectively, in this competition.

The International Astronomy and Astrophysics Competition

is an international science competition that allows students from all countries to demonstrate their skills and creativity in the fields of astronomy and astrophysics. The competition consists of three rounds:

- 1. The qualification round:** it is the first stage and consists of five astronomy problems of varying topics, difficulty levels, and subjects.
- 2. Pre-final round:** participants who solve the qualification round successfully move on to the pre-final round, which features more challenging problems.
- 3. Final round:** Finally, participants who successfully solve the pre-final round are qualified to participate in the final round, a multiple-choice online exam consisting of 30 questions.



International Opportunities

UNESCO-Equatorial Guinea International Prize for Research in the Life Sciences



How to apply

**UNESCO-Equatorial Guinea
International Prize
for Research in the Life Sciences**



Life sciences hold the key to a better future, as they contribute to poverty eradication, improved health, food and water security.

The core objectives of the Prize is to encourage research, enhance collaboration amongst researchers and reinforce networks of centers of excellence in the life sciences towards these goals.

The Prize, funded by the Republic of Equatorial Guinea, is given annually to a maximum of three laureates. They receive a monetary award of USD 350,000 divided equally among laureates, to help further their research, together with a certificate and the “Integracion Tribal” statuette by Equatorial Guinean artist Leandro Mbomio.

The Prize was established by UNESCO’s Executive Board, to support the achievement of the 2030 Agenda for Sustainable Development as well as UNESCO’s global priorities.

For further information and apply please visit:

<https://english.iut.ac.ir/node/1408>

Registration Deadline: October 31, 2023.

ERASMUS+ International Credit Mobility Programme

Call for Applications for Incoming and Outgoing Student Motilities Between A4U Universities and Partner Universities in SUB-SAHARAN AFRICA and IRAN During 2023-2024 and 2024-2025 Academic Years.

Alliance of 4 Universities (A4U) is a strategic partnership of four Spanish public universities: Universitat Autònoma de Barcelona, Universidad Autónoma de Madrid, Universidad Carlos III de Madrid, and Universitat Pompeu Fabra in Barcelona.



One of the objectives of A4U internationalization strategy is to promote mobility with leading universities in non-European countries . A4U has been awarded funds under Erasmus+ International Credit Mobility Programme, which enables students from A4U universities and partner universities to undertake a mobility stay.



The main objectives of the motilities are:

- To offer research and study development opportunities to students at participating universities, helping them achieve sustained improvements in their knowledge and research skills.
- To help mobility participants improve their professional, social and inter-cultural skills, as well as employability, and to promote cross-cultural exchange and dialogue.
- To forge lasting links between A4U universities and its partner universities, enhancing their transnational academic cooperation.

Mobilities announced in this call should be carried out in 2023-2024 and 2024-2025 academic years during the period of academic activity based on the academic calendar of the host university. All mobilities should end by 31 July 2025. for further information please visit: <https://english.iut.ac.ir/node/1409>

In order to expand the university's international scientific interactions with overseas academic institutions, the IUT International is publishing this electronic Newsletter on international relations in line with the IUT mission toward a Green University.

You are invited to register your email [here](#) to receive every new issue of the Newsletter upon its publication. You can also correspond with the editorial board from [here](#) to convey your valuable comments and suggestions, and send materials related to IUT to be published in future issues of the Newsletter.

To see the previous issues and more information on the newsletter, please [click here](#).

In addition to being distributed via social networks, this Newsletter will also be available through the following QR code. Your constructive participation in this path will guide us toward our goals.



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Your constructive and valuable comments and suggestions are most welcome.

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