

HAPPY SUMMER 2021

IUT International E-Newsletter

A Window to International Activities of IUT

Volume 2, Issue No. 8

June 2021



What we read in this issue:

- IUT International News
- IUT Awards and Honors
- Opportunities
- 10 of The Best Universities in The World for Employability



Dear All,

The last academic year has been exceptional and has shown us our vulnerability and that of our interrelated world. Naturally, the pandemic has not left the IUT unharmed. Despite all the challenges, I have been highly impressed by the smooth changeover to distance learning and working from home. On the aspect of research, our experts have risen to the challenge, initiation targeted projects and heartily putting their expertise at the service of the public.

It is a fact that science is the central and essential force in crisis management. Also since today's global challenges are so vast and complex, they can only be overcome with an interdisciplinary approach taken in collaboration with partners. These are two important points that have become clearer to me than ever.

I am extremely grateful to know that IUT can rely on the support of far-sighted people like you who believe in education and research and are also committed to working with us for a sustainable future.

IUT's vision and strategies reinforce our goal of helping to shape prosperity and good effective impact in society and working to preserve the foundations of life. While various factors are necessary to achieve this, one is more crucial than all others: contribution of people from every level of career through sharing their ideas, creativity, talent, and most of all, their dedication to society. Inventiveness, creativity, and the motivation to help solve important questions are found at all stages of a scientific career and are already very pronounced among professors, students, and staff.

Thank you all for your valuable efforts!

Dr. Sima Fakheran
Director of IUT International Scientific Cooperation Center
and Managing Editor of IUT E-Newsletter





IUT Appointed the Head of IUT SESAME National Working Group

As the Iranian Ministry of Science has selected Isfahan University of Technology (IUT) to be the national reference for cooperation with the Synchrotron-Light for Experimental Science and Applications in the Middle East (SESAME), the President of Isfahan University of Technology has appointed **Prof. Dr. Mahmoud Tabrizchi** as the head of the SESAME National Working Group at this university.

Dr. Mahmoud Tabrizchi is a distinguished professor at the IUT Department of Chemistry with remarkable national and international honors for reputable research in basic sciences.

He has been selected as Iran's representative in the SESAME Advisory and Scientific Committee since 2016 and has an active presence in this committee.



Prof. Mahmoud Tabrizchi

To get the most benefit of this opportunity, IUT International, as the secretary office of the **Isfahan Universities Network (IUN) for International Cooperation**, invited him as the esteemed guest of the IUN monthly meeting, which was held virtually on June 7, 2021. Professor Tabrizchi talked about the SESAME project ((Synchrotron Radiation Center for Research and Applied Sciences in the Middle East) and the relevant opportunities for cooperation. SESAME Project is an international scientific and technical collaboration project for using a Synchrotron device in the Middle East founded by the collaboration of several Asian, European, and American countries aiming to develop Synchrotron accelerator technology and its applications in the Middle East. This international project was launched under UNESCO surveillance in 2002 with a model similar to CERN in Europe, and since 2003 onwards, it has been operating as an independent international institution.

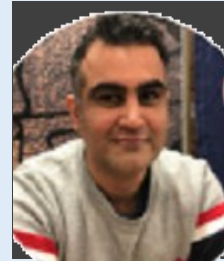


Holding Webinars and Meetings:

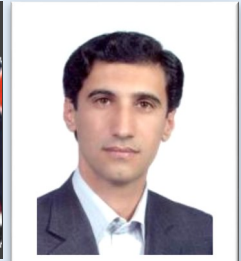
Department of Natural Resources of IUT

A webinar on "**Methods for Sample Collection, Storage and Analysis of Freshwater Phosphorus**" was held by the Department of Natural Resources of IUT on June 7, 2021.

Prof. Dr. Yusef Kianpoor Kalkhajeh from the Anhui Province Key Laboratory of Farmland Ecological Conservation and Pollution Prevention, School of Resources and Environment, was the speaker of this webinar. **Prof. Dr. Mohsen Soleimani**, a faculty member of the Department of Natural Resources at IUT was the host and organizer of this event.



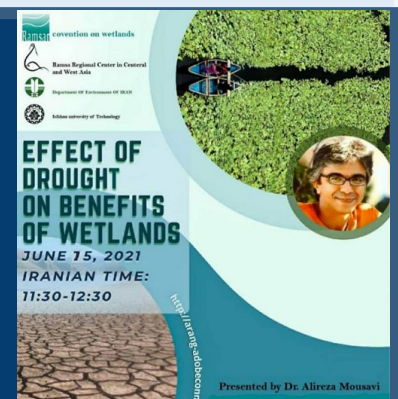
Prof. Dr. Y. Kianpoor



Prof. Dr. M. Soleimani

To remind those interested in wetlands, Ramsar Regional Center in Central and West Asia (RRC-CWA), held a webinar entitled "**Drought Effects on the Economic Benefits of Wetlands**" in cooperation with the Department of Natural Resources of IUT on June 15, 2021.

Prof. Dr. Alireza Mousavi, one of the faculty members of the Department of Natural Resources, IUT, was the lecturer of this scientific event.



Presented by Dr. Alireza Mousavi

Department of Transportation Engineering of IUT

A webinar on "**Smart Infrastructure Asset Management: Leveraging Sensors, Artificial Intelligence, and Optimization**" was held by the Department of Transportation Engineering of IUT on June 9, 2021. The keynote speaker of this webinar was **Prof. Dr. Mohammadhossein Noruzoliaee** from the Department of Civil Engineering, University of Texas, Rio Grande Valley, United States.

Prof. Dr. Ahmadreza Talebian, a faculty member of the Department of Transportation Engineering of IUT, was the host and organizer of this event.

Date: June 9, 2021
Time: 5:00 p.m. - 6:00 p.m.
Link: https://nika.n.iut.ac.ir/tranbsp_seminar

Smart Infrastructure Asset Management: Leveraging Sensors, Artificial Intelligence, and Optimization

Dr. Mohammadhossein Noruzoliaee
Department of Civil Engineering
University of Texas, Rio Grande Valley

ABSTRACT
Maintenance and Rehabilitation (M&R) of static and moving transportation infrastructure, such as pavements, bridges, railway tracks, and trains, entail significant capital investment. To find the optimum returns to long-term M&R investment, Infrastructure Management Systems (IMS) have been used by transportation agencies as a systematic approach consisting of three essential steps: infrastructure condition monitoring and evaluation, future condition forecast, and M&R planning. This talk intends to provide an overview of innovative sensor and computation technologies in smart IMS. In a broad perspective, sensing-enabled monitoring technologies, artificial intelligence approaches to future condition forecast, and large-scale optimization for M&R decision making will be discussed. The talk will also touch upon a smart IMS application on the Chicago O'Hare INTL Airport airfield pavement system.

A Workshop by IUT International on "Erasmus+ and Capacity"

IUT International Scientific Cooperation Center held the first session of the series of workshops related to the Erasmus+ program entitled "**Erasmus+ and Capacity Building**" on June 22, 2021. The workshop was for the faculty members and researchers of Isfahan University of Technology and the instructor of this workshop was **Dr. Seyed Hossein Tabatabaianasab**, an expert on international projects from Allameh Tabatabaie University.





At the end of his mission in the Islamic Republic of Iran, **Markus Leitner**, ambassador of Switzerland met with Iranian Foreign Minister **Mohammad Javad Zarif** to bid farewell.



IUT International would like to express its sincere gratitude to **Mr. Markus Leitner**, **Mrs. Dr. Chantal Delli** and their dedicated team to support IUT Swiss Desk and Leading house of Iran-Switzerland Science and Technology Cooperation to expand the scientific relationship with Swiss leading universities and wish him farewell.



IUT Awards and Honors:

IUT PhD Student Won the Swiss Excellence Scholarship 2022

IUT International is pleased to announce that **Ms. Nadia Ahmadi Heidari** has been selected for a Swiss Government Excellence Scholarship for the period from 01.09.2021 to 31.08.2022.

Ms. Ahmadi's success took place under the guidance of **Prof. Dr. Milad Fathi**, a faculty member of the Department of Food Science and Technology, College of Agricultural Engineering, IUT.

Every year, the Swiss Confederation awards Government Excellence Scholarships to promote international exchange and research cooperation between Switzerland and over 180 other countries. Recipients are selected by the awarding body, the Federal Commission for Scholarships for Foreign Students. The Swiss Government Excellence Scholarships are aimed at young researchers from abroad who have completed an MSC. or Ph.D. Degree.

Swiss government scholarships are offered by the Federal Commission for Scholarships for Foreign Students exclusively via Switzerland's official diplomatic representations in the applicants' countries of origin.

This year there were 438 applicants from all over the world, from which 17 applicants were successful in achieving this scholarship. This is the second consecutive year that one of the IUT PhD students has been selected for this honorable scholarship.



Ms. Nadia Ahmadi Heidari

Full Scholarship
Swiss Government



Switzerland



IUT was the Host of the Swiss Embassy's Counselor-August 2020

IUT Awards and Honors:

IUT has improved its global standing in the CWUR World University Rankings 2022

According to the latest ranking of the “Center for World University Rankings (CWUR)” in 2021-2022, Isfahan University of Technology is among the top universities worldwide with 48 promotion steps compared to the last year’s. With the 694th position, IUT is ranked as the second top technological university and the fifth top university in Iran.



CWUR has ranked 39 Iranian universities among 2000 top universities in the world in 2021-2022. The "CWUR" ranking is the largest academic ranking of the world's universities based on four indicators. These indicators include: the quality of education (25%), employment of graduates (25%), quality of the faculty (10%), and research performance (40%, which includes the quality of journals and research results). Read more...

IUT amongst the Leading Universities in Engineering and Basic Sciences, based on ARWU 2021

According to the latest Shanghai Ranking in 2021, IUT is ranked among the top 75 universities worldwide in the field of science engineering, and technology tools.

Isfahan University of Technology is ranked as one of the leading universities in the fields of engineering and basic sciences in the academic subject ranking of Shanghai, 2021. In the latest ranking of Shanghai universities, 34 Iranian universities are ranked, in which the world's universities are evaluated in 54 fields and 5 scientific areas. Based on the results of this ranking system, IUT is globally ranked 51-75 in the field of Science Engineering and Technology Tools, and also in the field of Mining Engineering . IUT also ranked 151-200 in metallurgical Sciences.

The Shanghai Ranking logo consists of a stylized red 'R' followed by the text 'Shanghai Ranking' in a black sans-serif font.



In this ranking system, IUT global standings has been indicated in the fields of Physics, Mechanical Engineering, Materials Engineering, Environmental Science and Technology Engineering as well as Energy, Science and Food Technology. For more information you may visit the following link:

<https://english.iut.ac.ir/node/339>

More than 1,800 out of 4,000 universities across 93 countries and regions are finally listed in the rankings.

Opportunities:

Summer School of Physical Chemistry - Knowledge and Modern Technologies Perspective

The Department of Chemistry at IUT has organized the first summer school of physical chemistry on July 18 & 19, 2021.

This summer school aims at familiarizing students with research and modern technologies, interdisciplinary thinking, and strengthening teamwork in the implementation of scientific-research projects. Also, in this course, students will be acquainted with various types of research that are being conducted in the physical chemistry department of this department. For further information about registration, admission, and holding the school, please visit: <https://english.iut.ac.ir/node/340>



Turkey's Research Priorities for Receiving Governmental Scholarships

The International Cooperation Center of the Ministry of Science announced that the research priorities of Turkey are revealed in the framework of the 100/2000 program. According to this program, by 2030, 2000 doctoral students whose research subject is in one of the mentioned subjects will be awarded government scholarships up to 1.5 times the amount that is normally paid to each doctoral student. Read more...

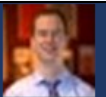


Call for COMSTECH Awards in 2021

COMSTECH call for awards in 2021 is announced to encourage and support scientific contributions in the field of basic sciences. Each award includes cash, a certificate, and a badge of honor. The awards will be presented at the next COMSTECH General Assembly. The awards include:

- \$5,000 cash prize for outstanding lifelong participation in biology and chemistry (No age requirement)
- \$3,000 Science and Technology Cash Prize with three categories as follows: Young Researcher Award under forty, Award for the best scientific book published by an international publisher, Award for the best patent filed in the last five years that develops business systems or has a lasting impact on the advancement of a theory.
- \$2000 cash prize for the best research paper in the field of biology, chemistry, mathematics, and physics based on original research published in an international peer-reviewed journal. Read more...





- Employability measures how effectively a university prepares its students for entering the job market
- Three key measures: employer reputation or campus employer presence; graduate employment rate; and careers service support
- Over 100 universities around the world have achieved a perfect rating for employability in their QS Stars rating
- Choosing a university can be a daunting decision under normal circumstances, but the COVID-19 outbreak is causing even more challenges as students choose where to spend the next few years of their tertiary education.
- According to the International Student Survey 2020, more than 70 percent of students deciding where to study will priorities a course that is linked to their future career. The pandemic outbreak has only increased focus on career prospects and opportunities, so it makes sense to choose a university with a strong record of producing employable graduates.

Measuring Employability with QS Stars

Universities are assessed for employability using three key criteria:

- Employer reputation or campus employer presence: Universities must either have received nominations from employers through the QS Global Employer Survey or be able to demonstrate significant numbers of employers have attended campus events in the last year
- Graduate employment rate: How many graduates have found employment or started a business within two years of graduation?

Careers service support: This looks at several factors, from the number of career counselors at the university, to the availability of career interview training, careers fairs and online career portals.

Wondering which universities are among the best in the world for employability? More than 100 universities have achieved a perfect rating for employability in QS Stars. We've highlighted 10 of them below, all of which also feature in the QS Graduate Employability Rankings.



QS Stars: Top 10 Universities for Employability

1– University of Bristol– UK	6– North Carolina State University– USA
2– University of Canterbury, New Zealand	7– Ritsumeikan University– Japan
3– Coventry University– UK	8– RMIT University– Australia
4– Universidad de los Andes– Colombia	9– RUDN University– Russia
5– University Malaya– Malaysia	10– University of Jordan– Jordan

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 and in line with the IUT mission towards a Green University.

You are invited to register your email here to receive the 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 to 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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IUT International Newsletter is a periodic E-newsletter to be distributed among IUT students and staff.

Your constructive and valuable comments and suggestions are most welcomed.

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