

Conductive Ink Produced in Amirkabir University

Amir Rezvani Moqadam, executive of the conductive ink project, says that this product is the new generation of inks, saying: "This product is frequently used in solar cells, organic light-emitting diodes, RFID antennas and electronic circuits. Normally, when electronic boards are produced, after coating the fiber parts of the board with lead, the design and map of the circuit are drawn on the lead board using water-proof marker. Next, after washing the board with acid, the remaining design is used as the electronic circuit." Rezvani noted that this method increases the use of lead and is time-consuming, adding: "In order to resolve these issues, we executed the project of producing conductive inks as a modern method. In this project, the conductive ink is applied on the board on demand; in addition to saving time, it considerably reduces the cost of making electronic boards." The project's executive pointed to oxidation of lead nano-particles in these inks as one of the issues at hand, saying: "In order to resolve this matter, we used certain chemical methods to protect lead nano-particles against oxidation, which optimizes lead's oxidation resistance considerably, in addition to minimizing the oxygen on the surface of the lead nano-particles."

POINT OF VIEW

First Intl. Congress of Novel Medical Technologies

The ministry of Health-care, Treatment, and Medical Education is going to hold the 1st International Congress of Novel Medical Technologies on December 3 in Razi Conference Center. The aim of this congress, with the motto of "Development of Local Health Technologies and Resilient Economy of Health", is development of novel medical and clinical technologies. Looking for ways to localize the aforementioned development is also another goal of holding this congress. A number of organizations will cooperate in order to hold this conference, including the office of Health Technologies in the ministry of Health-care and Medical Education, Iran's Medical Council, Amir Kabir University of Technology, also Biology Information Center of Science Council in Tehran University's Department of medical sciences. Several other universities and hospitals from all across the country would also be helping in this event. Simultaneous with holding this congress, a festival will be held to promote the top ideas in the form of a tech-market. This market, alongside a professional exposition of novel medical technologies will be held in which important companies working in the field of medical equipment and technologies would participate. Those who are interested in this event could visit the congress' website through <http://mhtc.ir> for further information.

CONTACT US

We welcome your views and memos on the related topics. You can contact us through: english@fdn.ir.

General Manager of IAU's Students Fund Reported

300-percent Increase in Students Casualty Insurance



Dr. Farid Zaker

Dr. Farid Zaker, General Manager of Students Fund, says that more than 8 trillion Rials credits have been granted to the students of the Islamic Azad University. According to him, 7 different loans are granted to IAU students; he said: "Housing mortgage and other loans including the emergency, short and long plans, zero rated for schooling, also marriage loan are granted by IAU's Fund and the loan on tuition is also paid by the Fund of the ministry of Science and Research to the students of IAU."

He maintained: "The students could refer to the funds in their universities and branches to submit their application for receiving loans; they also could do this online on the website of the fund. The loans given on the tuition are up to 50-percent of the expenses and the students could also take advantage of other credits based on the regulations of the Fund."

Granted Credits

Dr. Zaker explained: "IAU is trying to reduce the bureaucracy of loaning procedure so that the students could apply for and receive the credits in a speedy and efficient manner. For the ease and convenience of the students, the Fund has planned to increase the number and amount of the loans. Also, in an act to support marriage and young families, IAU has decided to hand out marriage loans of around 100 million Rials to the students. This has been made possible through signing agreement with the banking system of the country and up until now, around 1.2 trillion Rials have been granted to 12,000 students."

Raising Casualty Insurance

The General Manager of Students Fund further explained about the casualty insurance of the students, saying: "The cap of insurance payment for the special cases of accidents result-

ing in death or mutilation has been raised from 60 million to 200 million Rials and the treatment fees have been increased from 12 million to 50 million Rials. In other words, this insurance has gone under a growth of 300-percent. Currently, no student cases are waiting for insurance payment and all the previous ones have been updated."

Zaker mentioned the credits of Bank Melli for the students, faculty members and the staff of IAU, also for the development projects of the university, adding: "Based on an agreement signed between IAU and Bank Melli, more than 13 trillion Rials worth of credits have been granted to the individuals and projects close to IAU. Also, through using internal resources of the university, students in different levels of associate, undergraduate, postgraduate and doctorate programs have received different loans amounting to 8 trillion Rials in the past two years."

Iran's News

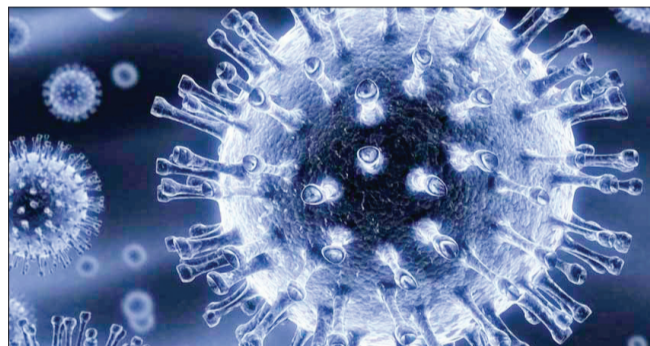
IAU and Iraq Religious Committees to Cooperate



Iraq's Wasit is laying the groundwork for provisions required for Arbain pilgrims who are going to enter Iraq from Mehran borders. The national committee of Arbain in the Islamic Azad University is formed with the aim of providing necessary services for the students, professors, their families, and on the next level, other groups of the people. Dr. Mirzadeh, chairman of IAU, and Dr. Seyyed-Taha Hashemi, deputy of Culture and Student Affairs in IAU, have made especial efforts in forming this committee. Ilam branch of IAU is mainly in charge of this committee and other branches are advised to cooperate. A meeting was held

for discussion over the aforementioned issue, in which the chief consultant to Wasit's governor and the director of this province's religious committees participated. Abdul-Jaleel Barseem, the consultant to governor, said: "Wasit and Ilam are two provinces located on national borders. What makes these two provinces related is their shared interest in religious issues and the fact that they pay special attention to the mourning ceremonies of Imam Hossein (A)." The Consultant further quoted from the governor and continued: "The governor house is looking forward to this event and is preparing the provisions of the pilgrims."

Optimizing Photo-catalytic Properties of Nano-particles



Dr. Alireza Bahramian, faculty member of Hemadan University of Technology and the project's executive, referred to the affordability of the synthesized titanium dioxide used for optimizing the photo-catalytic properties of nano-structures, saying: "We have synthesized a particular type of coral shaped titanium dioxide through a chemical method, evaluating its performance regarding eliminating color pollutants from aquatic environments." Bahramian talked about the procedures of creating the coral structure, adding: "Nano-structured thin films of titanium dioxide with a coral shaped structure are steaded on the Ostwald ripening mechanism,

in which, the obtained nano-particles are re-dissolved in the solution; since the nucleation process of these nano-particles is faster than their growth, a noticeable amount of primary nucleuses are formed in the solution, resulting in the formation of porous structure of titanium dioxide. The continuation of the particles' growth and the connection of the nucleuses lead to the formation of coral structure of titanium dioxide particles." In this project, a particular type of coral structured titanium dioxide has been synthesized through sol-gel method; the produced nano-particles have been sediment on glass slides through immersion plating.



THE FIRST FESTIVAL OF STUDENT JOURNALS COMMENCED IN TABRIZ BRANCH OF THE ISLAMIC AZAD UNIVERSITY.

NEWS PHOTOS

IANA

IRAN UPDATES

Iran Says No Talks with US over Syria Truce

The Iranian Foreign Ministry spokesman says the Islamic Republic has held and will hold no talks with the United States about a ceasefire in Syria, which took effect on Monday. Bahram Gassemi dismissed media reports claiming that Iran's Foreign Minister, Mohammad-Javad Zarif, and US Secretary of State, John Kerry, have discussed the ceasefire in Syria, which was brokered by Russia and the United States. "The Islamic Republic of Iran and the US have had and will have no contact, consultation or dialogue on regional issues," he said. The truce deal was announced on Friday following intensive talks between Russian Foreign Minister, Sergei Lavrov, and his US counterpart. The seven-day ceasefire took effect at sundown on Monday. Iran on Sunday welcomed the Russia-US-mediated ceasefire agreement in Syria, saying, "The Islamic Republic of Iran always welcomes a ceasefire in Syria and the facilitation of the access of all the country's people to humanitarian aid."

Iran Concludes Historic Border Pact with Oman



Iran says it had concluded a "historic" accord with Oman that demarcates the Islamic Republic's maritime border with the fellow Persian Gulf littoral state. Abbas Aragchi, Iran's deputy FM for Legal and International Affairs, announced the agreement as the conclusion of a meeting between Omani Interior Minister, Hamoud Bin Faisal al-Busaidi, and Iran's FM, Mohammad-Javad Zarif, in Tehran, when the two exchanged the required documents. Besides outlining Iran's longest maritime border in the Sea of Oman, the agreement justly apportioned potential hydrocarbon resources between the two countries. Border issues always turn out to be contentious ones even among allies he said, adding, "Iran and the royal government of Oman successfully completed complex and tough technical and legal negotiations on the determination of their maritime border based on the principles of good will and good neighborliness."

China May Build Iran's 4th N-Plant

Head of the Atomic Energy Organization of Iran says European and Chinese companies are interested in the country's nuclear power generation plans. Ali-Akbar Salehi told Kyodo News that Chinese companies had visited a new site for the construction of Iran's fourth nuclear power plant on the Gulf of Oman and offered financial support. "Iran's fourth power plant that we are going to build will be located in the Makran region of southern Iran. Chinese have already visited that region for site selection, but we have not come yet to a final agreement," the news agency quoted him as saying. Iran plans to build 20 nuclear power plants to produce 20,000 megawatts of electricity as the country is seeking to reduce its reliance on oil and gas. On Saturday, the country began constructing two new facilities with Russian help. Salehi said some European countries, which he did not name, have started initial talks with Iran about participation in the projects but no agreements have been reached yet.

SPECIAL REPORTS

Inside IAU

Regulation of Cultural and Social Knowledge Companies Issued



The instructions for establishment of cultural, arts and social knowledge companies of IAU have been issued in the Islamic Azad University and have been relayed to the branches, teaching centers, SAMA schools and the administration of IAU's head office. According to this directive, IAU's cultural, arts and social knowledge companies are considered private organizations or cooperatives which are inaugurated with the purpose of raising revenue through scientific and research achievements in fields related to culture, in this way responding to society's needs and presenting or regulating resources.

The submitted proposals for establishing cultural, arts and social knowledge companies are evaluated in a specialized workgroup and after receiving approval, they are sent to the deputy of Research and Technology of IAU to be established in the incubator centers. The deputies of Research and Technology, Planning and Economy, Science and Technology Park, two permanent and two invited individuals from the Economic Council of Culture and Arts, would form the members of the specialized workgroups of the companies, alongside the CEO of the Culture and Social Affairs acting as the secretariat. These workgroups are tasked with holding meetings for receiving, evaluating and approving the proposals submitted by innovative centers of provinces regarding company establishment.

The activities of the specialized workgroups include collecting and submitting seasonal reports of their performance to the Council of Knowledge Economy, assessing projects in terms of cultural, artistic and social content based on the country's needs and priorities, and relaying their expert opinion on the matter to the incubator center's council. The purpose of forming these companies is supporting commercializable ideas in the fields of cultural technologies and raising revenue, launching think tanks for ideation, evaluating and approving profitable projects in cultural, arts and social fields, commercializing cultural, arts and social achievements, and deploying the entirety of IAU's capacities for uniting entrepreneurs active in cultural, arts and social fields.