

Microfuge Device in SAMA School of Ahvaz

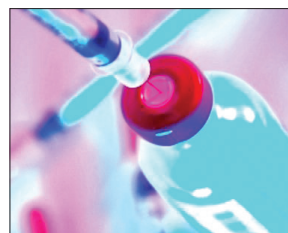


Mehrdad Afshun, deputy of Supervision and Coordination in SAMA School of Khuzestan, says: "Mohsen Judzadeh, professor of the electronics department of Ahvaz's SAMA, has succeeded in producing a lab microfuge, which could be used in chemical and genetic labs."

There are different ways for breaking up parts of a solution, each with various precision and quality. Physical purification is one of the common ways used in the industry. Centrifuges are used for separating various parts of a solution physically, and microfuge is another type of this device, which has been designed with a smaller size and the maximum spinning rounds of 3,000; it is ready for presentation to various organizations. Also this device could be customized according to settings and features requested by the customer.

Another property unique to this designed device is the application of one of the best direct current motors with the least amount of damage; on the other hand, since the product is produced locally, it could be completely supported and receive required services in a short time. Soon a more advanced version of this device would be introduced, capable of receiving all the instructions through a computer.

POINT OF VIEW



Cancer Vaccine Produced in Iran

Iranian researchers in Ibn Sina Research Center has managed to produce a cancer vaccine for prevention and treatment of the disease in its animal phase. Hojatollah Rabani, director of this project, said that immunotherapy is a secure method for treating cancer patients and added that the researchers in this center and elsewhere are trying to find ways for stimulating body so that it could smartly react to the growth of cancerous cells in the form of controlling or killing them. He said that the aim which has gained the attention of researchers is to produce a vaccine which could be injected to newborn babies just like any other preventive measure so that they are secured against cancer from the early on. Rabani noted that this vaccine could be customized and used in prevention of different kinds of cancer. Besides prevention, this vaccine could be used in treating cancer and only the dosage would be different. Also, the vaccine does not need to be customized for each patient and is made generally. The produced vaccine in Ibn Sina center is made of anti-gene proteins and the test phase on animal samples is already done which shows promising results.

CONTACT US

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

Robotic Teams of IAU Met with Chairman of University

Establishing Robotics Consortium to Support Researchers



Robotic Teams of Qazvin and Ilkhchi Branches and Dr. Mirzadeh

Robotic teams of Qazvin and Ilkhchi branches, which had shown great performance and were honored in International Competitions of 2016, met with Dr. Hamid Mirzadeh, chairman of the Islamic Azad University. In this meeting, Dr. Mirzadeh appreciated the hard work of the team members and said: "You are the reason why IAU could boast in the field of robotics; you are intellectual assets both for the university and for the country. Currently, 21 branches of IAU are active in the field of robotics and this is considered a success, since it started from Qazvin branch and in a short period of time was spread to other branches."

Robotic Contracts with Industries

Dr. Mirzadeh, mentioning the establishment of Robotics Consortium in IAU, said: "The aim of IAU is to produce industrial robots and offer them to country's industry and service sectors.

Accordingly, we have signed 14 contracts with different industries for this. Robotics is a practical field and for this reason, it is necessary that other branches get engaged and join this consortium. My demand is that all the branches having necessary capacity and infrastructures join this program."

He explained more about the Robotics Consortium, saying: "This consortium is in charge of the technical side of the active teams, also promoting it through a purposeful plan. The regulations formulated based on the demands of robotic teams will be relayed to the branches so that they could keep in line with the latest trends." He asked from Dr. Ebrahim Vashagani-Farahani, deputy of Research and Technology of the university, to round up the demands of robotic team such as the possibility of furthering education, special privileges and financial support, so that they could be presented to this consortium and IAU's board of directors.

He expressed hope that IAU's robots could be used more in industry and service sectors with the aim of solving a part of social problems. He also mentioned some of the ideas he had suggested to the robotic teams in the past year, adding: "Robots which could be used as fire-fighters or traffic guides would decrease the damage of possible incidents and their production should be prioritized. Also, country is in need of medical robots and IAU could be a pioneer in this category."

He again appreciated the attempts of robotic teams of Qazvin and Ilkhchi branches, saying: "This great performance is the result of the hard work of lecturers and students and they should be duly rewarded. Also, we have numerous offices in other countries such as England, U.A.E., Afghanistan, Russia, Italy, Lebanon and Germany which are going to offer accommodation and support to the teams attending different robotic events in the world."

Iran's News

Iranian Robot in Germany's International Expo



Surena, the Iranian robot made in the faculty of mechanics in Tehran University, was presented in Munich's International Exposition of Automatica, 2016. Surena 3, presented in the International Exposition of Automation and Robotics, 2016, was highly applauded by the academics, visitors, and active companies in the field of robotics and automation. Dr. Aqil Yousefi, faculty member of mechanics department in Tehran University and the executive manager of Surena project, said that the Iran's achievements in this exposition were outstanding. Amongst these achievements, he mentioned the introduction of

Surena 3, establishment of a convenient atmosphere to cooperate with international companies and universities of Germany, and using the potential of joint markets with Europe in the field of robotics and industrial automation. Yousefi, who is also the manager of CAST (Center of Advanced Systems and Technologies) and the supervisor of Research Deputy in technology departments of Tehran University, mentioned that they are negotiating with international companies to develop and commercialize Surena 3. Automatica is the pioneering trade exposition in the field of technology which is held in Munich on an annual basis.

Research Marathon of Reviews on Digestive Diseases



Dr. Azita Ganji, director of Digestion and Liver Researches Department in Mashhad University of Medical Sciences, says that the first research marathon of reviews on digestive diseases will be held in this university. Dr. Ganji said: "This project will start on September 10 and will go on for five days in Mashhad University of Medical Sciences. Students from the country's Area 9 will be attending this event." Dr. Ganji, also faculty member of this university, also said: "In this project, researchers will be acquainted with the basics of the review, how to write them, different types of review, and how to organize them in different edu-

cational and science workshops. Several research projects have also been gathered by the marathon's Science Board. Students attending the workshops will gather information and compose reviews on them. After the marathon's end, each work group will present a first draft which will be judged and graded. The teams showing the best performance and earning the best grade will be rewarded." Those interested in participation and those in want of more information could visit gismr2016.blogspot.com or call through 09371906184, 09216764618, or could inquire via email, through gismr2016@gmail.com.



IAU'S NATIONAL FESTIVAL OF GENERAL SPORTS IN THE CATEGORY OF MALE STUDENTS COMMENCED IN HAMEDAN BRANCH.

IANA

IRAN UPDATES

Iran Eyes China 'Teapots' to Clip Saudi Wings

China's independent refiners are on board to get Iranian crude oil possibly for the first time. The National Iranian Oil Company (NIOC) is reportedly in talks with the world's second largest private oil trader, Trafigura, to step up oil shipments to China. Iran currently sells most of its crude oil directly to state-owned refiners in China under long-term contracts as well as through additional spot cargoes. Trafigura now wants to supply Iran's Heavy crude grade to independent processors, known as teapots, which typically buy shipments at short notice and in small quantities, Bloomberg has reported. Sales to teapots would boost Iran's market share in Asia which has seen Saudi Arabia selling oil to a Chinese teapot refiner in an attempt to hinder Iran's drive to regain its market share with stepped-up exports after the removal of sanctions.

Iran, Russia, Azerbaijan Vow to Create NSTC



Iran, Russia and Azerbaijan have vowed to work together to prepare the grounds for the construction of a North-South Transit Corridor (NSTC) which is expected to provide a faster and more efficient trade connectivity between Europe and South East Asia. The three presidents announced in a joint statement at the end of the historic Baku summit that

they would take the required measures to materialize the NSTC with the ultimate objective to exploit the economic opportunities it creates. They also emphasized that their respective countries would try to increase their own shares in efforts to create the NSTC "based on their common interests". The NSTC is a multi-modal route to link India and the Middle East to the Caucasus, Central Asia and Europe.

US Payment to Iran Unrelated to JCPOA



A senior Iranian official has denied claims that a \$400 million payment to Iran by the United States earlier this year had been related to the nuclear deal the Islamic Republic has struck with six world powers. Secretary of the Supreme National Security Council, Ali Shamkhani, said the payment was part of the money owed to Iran by the US since before the Islamic Revolution of 1979. He said January's payment was part of a sum of money the US has to pay to Iran over military purchases made by the regime of Pahlavi which was deposited in the 1979 Revolution. The payment, Shamkhani said, is thus not related to the nuclear negotiations that culminated in JCPOA. Shamkhani said the fact that the payment was made at the same time as the nuclear talks concluded was "pure coincidence."

SPECIAL REPORTS

Inside IAU

Professional Sports Council in North Khorasan



Head of the Professional Sports Council of the Islamic Azad University in North Khorasan province says: "Formation of this professional council has led to the empowerment of student sports more than ever, in addition to garnering focus on raising non-tuition revenue through various sports activities."

Alireza Behmanesh talked about the sports equipment of the academic branches in IAU of North Khorasan province and said: "Bojnurd branch has two sports gym, one of which has two extra sub-gyms for wrestling, table tennis, rock climbing and a grass turf for training purposes."

Behmanesh added: "Shirvan branch is also preparing for inaugurating a sports gym and pool, but Esfaryen branch does not have an operational sports gym at the moment."

He mentioned the awards and honors achieved by the sports deputy of this university so far and said: "Last year, North Khorasan's IAU achieved the second place in the national judo competitions, in addition to standing 2 times in the first place of two different weight categories of the wrestling match, and another third place in two different wrestling weight categories."

Behmanesh further noted: "Compared to other numerous branches of IAU, the number of students enrolled in Bojnurd branch is lower; despite this fact, last year this branch was able to send its volleyball, basketball, futsal and the general sports team to national competitions. This year too, we intend to dispatch two 12-member teams for the general sports category of both men and women to the competitions which is going to be held in Hamedan branch of IAU."



NEWS PHOTOS