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6™ INTERNATION CON-FERENCE ON MANAGE-MENT OF TECHNOLOGY

# 3<sup>rd</sup> MEETING OF BOARD OF TRUSTEES (BoT) AND EXECUTIVE COMMITTEE OF ECOSF HELD IN ISLAMABAD-PAKISTAN FROM 17-18 AUGUST 2016

Veeting of ECOSF Board of Trustees (BoT) was successfully convened in Islamabadxistan on 18 August 2016. The Meeting was chaired by H.E. Mr. Fazal Abbas Maken, eral Secretary to Government of Islamic Republic of Pakistan, Ministry of Science Technology and attended by the Deputy Minister of Afghanistan, and Diplomats and erts/Representatives of the relevant authorities of the eight (06) Member States of the nomic Cooperation Organization (ECO) namely; the Islamic Republic of Afghanistan, Republic of Azerbaijan, the Islamic Republic of Iran, the Republic of Kazakhstan, the mic Republic of Pakistan and the Republic of Tajikistan. The Board was apprised but the achievements and progress of the Foundation which were well appreciated. Board approved the recommendations and future plans/activities of the Foundation. Board took a number of decisions to strengthen the Foundation and approved a posal of Iran for launching joint ECOSF-Iran scholarships for Ph.D. in Iran for the onals of ECO member countries, as well as a proposal for joint projects with the mic Development Bank (IDB). The BoT also issued an Islamabad Communiqué reciating the progress of the Foundation and acknowledging the hosting and porting of the Foundation by the Government of Pakistan.

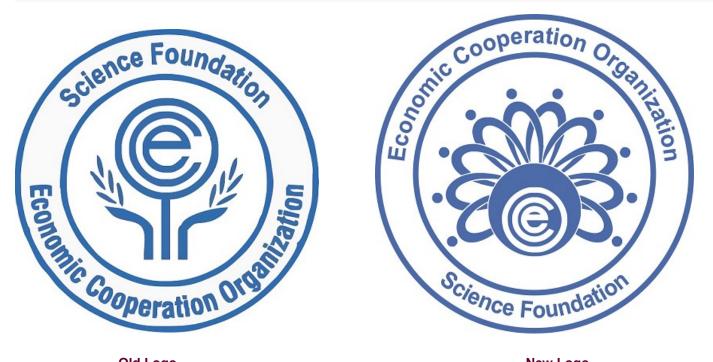


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Earlier, the Executive Committee (EC) of ECOSF met on 17 August, it was participated by the senior scientists and diplomats of member countries; and as per the Rules of Procedure, the EC discussed and finalized the Agenda for 3<sup>rd</sup> Meeting of ECOSF BoT.



ECOSF INTERIM LOGO/EMBLEM CHANGED



### Old Logo

**New Logo** 

The Board of Trustees (BoT) of ECOSF in its 3<sup>rd</sup> Meeting held on 18 August 2016 approved the new design of ECOSF Logo. The new logo designed by a student from Kyrgyz Republic through a students competition has been adopted with effect from 23 August 2016.

# ECOSF AND PSF ORGANIZE WORKSHOP "TRAINING OF MASTER TRAINERS ON INQUIRY BASED SCIENCE EDUCATION (IBSE)" 5-9 SEPTEMBER, ISLAMABAD- PAKISTAN

ECO Science Foundation (ECOSF) and Pakistan Science Foundation (PSF) in collaboration with *La main a la pate* Foundation of France and Embassy of France are organizing a five-day National Capacity Building Workshop on Inquiry Based Science Education (IBSE) in schools from 5-9 September 2016 at Islamabad-Pakistan.

Purpose of the workshop is to address inquiry-based science education issues, strategies for innovation in educational practices and strategies for generalisation into educational systems. The workshop will focus especially on the continuous professional development of Teacher Trainers/ Master Trainers, with reference to IBSE approach of *La main a la pate* (LAMAP) who will subsequently lead the programme and implement in their schools initially at primary level.



The Workshop would build the capacity of participants to recognize the philosophy of IBSE pedagogy for teaching of Science, Technology, Engineering and Mathematics (STEM) subjects; experience the process of inquiry-based science teaching and learning, problem solving skills through hands-on, minds-on activities; gain insights into activities that not only can encourage and motivate students in science but also convince decision makers to pursue Inquiry based approach for education; and decide on strategic steps for implementation of IBSE – based STEM education in Pakistan.

It is pertinent to mention that ECOSF programme for implementation of and capacity building in IBSE for ECO countries was launched in June 2015 in Astana, Kazakhstan, and this workshop is first of a series of workshops in collaboration with *La main a la pate* Foundation of France, that would follow the 2015 Astana IBSE workshop.

# INTERNATIONAL DIALOGUE ON ADAPTATION TO CLIMATE CHANGE- UNDERSTANDING FUTURE WATER AVAILABILITY

An International Dialogue on "Adaptation to Climate Change- Understanding Future Water Availability" was organized by UNESCO Chair (Dr. Asma Younus) on Knowledge Systems for Integrated Water Resource Management of COMSATS Institute of Information Technology (CIIT), Wah campus Pakistan on August 1, 2016 at the campus. Objective of the dialogue was to improve incorporation of information about current climate variability into water-related management in order to assist adaptation to longer-term climate change impacts.

Prof. Dr. Tayyab Akram, Director CIIT-Wah, welcomed the participants and then a presentation on "Vulnerability of Pakistan's water sector to climate change impacts" was made by Dr. Saeed A. Asad from Centre for Climate Research & Development (CCRD) CIIT, Islamabad.

Dr. Shahbaz Khan, Director UNESCO Regional Science Bureau for Asia and Pacific, Jakarta-Indonesia gave a detailed overview of Climate Change Adaptation and Water Security Issues in Asia Pacific. He emphasized on the need to urgently consider ways to transit towards a Green Economy (the Rio+20 agenda). Climate change is linked to almost all the other global challenges, he said. Some UNESCO projects related to water education and climate change adaption were also discussed.

The technical session was chaired by Prof. Dr. Shahbaz Khan; the co-chairs/panelists were Prof. Dr. Manzoor Hussain Soomro President ECOSF, Dr. Ashraf Chairman PCRWR, Prof. Dr. Rai Niaz VC of PMAS Arid Agric University Rawalpindi and Prof. Dr. Tayyeb Akram & Mr. Alamgir Khan of CIIT Wah. Dr. Soomro in his remarks stressed on the understanding of climate change and the awareness of the impacts climate change may have on the globe. He further said that inquiry based approach is very much necessary to have a sustainable life, by avoiding further damage to the globe due to less awareness and education about climate changes and their long term effects. "Since climate change is linked to almost all the other global challenges so the loopholes in research sector must be covered", he added.

It is pertinent to mention that UNESCO and ECOSF are working in close collaboration for various programs. The ongoing collaborative programs are; Inquiry Based Science Education (IBSE), Man and the Biosphere (MAB), Engineering Qualification Standardization (EQS) in ECO Region.



### FCC, ECOSF & COMSTECH INTERNATIONAL WORKSHOP ON "CRYSTALLOGRAPHY IN STRUCTURAL BIOLOGY" FROM 15-19 OCTOBER 2016 AT LAHORE

Forman Christian College (FCC) Lahore, ECO Science Foundation (ECOSF) and COMSTECH are jointly organizing the 2nd International Workshop on "Crystallography in Structural Biology" from 15-19 October 2016 at Lahore-Pakistan. The main objective of the workshop is to provide a platform to the participants coming from various countries including ECO member countries to share their scientific knowledge/ wisdom and to develop networking for future cooperation/collaboration between their institutes/organizations.

**Application submission deadline:** 15 September 2016. Interested young scientists from ECO member countries may contact ECOSF even after the deadline!

Web Link: <u>http://eco4science.org/ECOSF-and-FCC-s-2nd-International-</u> Workshop-on-Crystallography-in-Structural-Biology



#### 2nd International Workshop on X-ray Crystallography in Structural Biology 15-19 October 2016



# INTERNATIONAL YOUTH DAY 2016: "THE ROAD TO 2030: ERADICATING POVERTY AND ACHIEVING SUSTAINABLE CONSUMPTION AND PRODUCTION"

International Youth Day 2016 was celebrated in Pakistan on 12 August 2016. The theme of the 2016 International Youth Day was "The Road to 2030: Eradicating Poverty and Achieving Sustainable Consumption and Production". To celebrate this awareness day Radio Pakistan invited Prof. Dr. Manzoor Hussain Soomro in a National hook-up "Rabta" meaning "contact" which program was broadcasted around the country and abroad also. President ECOSF appreciated the initiative of Radio Pakistan for dedicating the program on this special and very important day. Dr. Soomro highlighted the history and prime purposes of the youth day. He emphasized the leading role of young people in ensuring poverty eradication and achieving sustainable development through sustainable consumption and production.



International Youth Day (IYD) is an awareness day

designated by the United Nations. The first IYD was observed on 12 August, 2000. The prime purpose of the day is to draw attention to a given set of cultural and legal issues surrounding youth. Also it is meant as an opportunity for governments and others to draw attention to youth issues worldwide.

Dr. Soomro urged youth of Pakistan to organize among themselves and function as agent of change. He also suggested to Govt. organizations, NGOs and parents to trust and support youth. He then highlighted the ECOSF programs, **App Idea 2R** which is particularly for the involvement and development of youth to attain UN SDGs. During the one hour programme, Dr. Soomro also answered numerous on-line questions from the listeners around the country.

# UNIDO-ECO EXPERT GROUP MEETING ON "FORMULATION OF GUIDELINES FOR THE DEVELOPMENT OF NATIONAL QUALITY POLICY" 18-20 JULY 2016

UNIDO-ECO Expert Group Meeting on "Formulation of Guidelines for the Development of National Quality Policy" was held at Marriott hotel Islamabad during 18-20 July 2016. The meeting was opened by H.E Rana Tanveer Hussain, Federal Minister for Science and Technology, Islamic Republic of Pakistan. In his opening remarks he welcomed all the participants and stressed that development of Quality Policy is very important for the developing countries such as, Pakistan and other ECO member states, to have sustainable economies.

Pakistan's Ministry of Science and Technology (MoST) and the MoST institutions viz., PSQCA, PNAC, NPSL, PCSIR were involved in this event together with ECO Secretariat under a UNIDO financed project. ECO Science Foundation being a specialized agency of ECO participated in the inaugural session with the presence of its President, Prof. Dr. Manzoor Hussain Soomro. ECOSF being housed in MoST can involve PSQCA, PNAC, UNIDO and MoST for harmonization of Science, Technology and Innovation policies.



# ECOSF CO-SPONSORED THE 12<sup>TH</sup> INTERNATIONAL CONFERENCE ON SUSTAINABLE DEVELOPMENT OF DRYLANDS IN THE POST 2015 WORLD

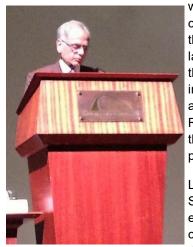
12<sup>th</sup> International Conference on Sustainable Development of Drylands in the Post 2015 World from 21-24 August, 2016, Alexandria, Egypt jointly organized by International Dryland Development Commission (IDDC) and hosted by Bibliotheca Alexandrina, Egypt, Co-sponsored by Ain Shams University, Egypt (ALARI), ALRC (Japan), ICARDA, CAREEI (CAS, China) CIHEAM, JICA (Japan) JIRCAS (JAPAN) and supported by IFAD, FAO, COMSTECH, SHOURA Foundation and ECO Science Foundation.

Over 250 national and international scientists and experts, from all over the world, took part in the conference. An esteemed group of scientists and researchers from universities and academic research institutions in Egypt has also participate in the conference. The researchers presented scientific researches that serve the cause of developing drylands and aims to raising of the standards of living of more than 2.5 billion resident of drylands worldwide. The conference tackled issues concerning land degradation and desertification, sustaining biodiversity at drylands, developing communities at drylands, reducing poverty levels, providing job opportunities, and new and renewable energy. In Addition, several topics concerning the sustainable development of drylands, including applying new technology to raise crop efficiency in coping with dehydration and high temperatures, as well as the problems of the agricultural management of drylands were also discussed.



The conference was inaugurated by Dr. Adel el-Beltagy, the president of IDDC while Dr. Ismail Serageldin, the Director of the Bibliotheca Alexandrina; Dr. Pasquale Steduto, a Deputy Regional Representative at the Food and Agriculture Organization (FAO); Dr. Abdelhaq Hanafi, a representative of International Fund for Agricultural Development (IFAD) and Dr. Manzoor Hussain Soomro President ECOSF were also present and spoke to the audience.

President ECOSF in his inaugural statement highly acknowledged the Professor Adel El-Beltaghi and his team for their efforts to highlight through this conference, the importance of drylands for sustainably enhancing food security, increasing productivity of smallholder farmers, reducing poverty and hunger, and tackling the problems associated with increasing



water scarcity, biodiversity loss and desertification. As achieving the SDGs is seriously challenged by unabated global climate change but the challenge is particularly serious in the dry areas. He further added that the preservation and sustainable development of drylands are essential to conserve the biomass and biodiversity and achieve food security. At the same time, the protection of soil quality and crop and grazing land management, including restoration of degraded lands, have been identified as having the greatest agricultural potential to mitigate climate change, in addition to being cost-effective. Reducing the vulnerability of dryland communities to climate change requires measures that diversify livelihood options, reduce pressure on natural resources, and restore and protect dryland ecosystems.

Later on in the technical session Dr. Soomro gave a presentation entitled "Inquiry Based Science Education (IBSE) for Sustainable Drylands Development" and highlighted that economic development has been and remains the target and priority of each entity, community and country around the globe. However, the global climate and natural disasters pose great challenges especially to the Drylands areas. Accordingly, the way of

thinking and strategies to tackle the challenges, have to be changed. Strategies and solutions developed for irrigated lands cannot be applied as such for the development of Drylands. In addition, the socio-economic and cultural aspects of the communities at large, have greater influence on implementation of any development strategies and programmes. Therefore, to face the known and emerging challenges to the Drylands and to ensure sustainable Dryland development, critical and innovative thinking across the board specially among children- the future of nations, is of utmost importance. And to nurture critical and innovative thinking in the society especially young children, the methodology of teaching and

learning at school level, becomes crucial. In this respect, the Inquiry Based Science Education (IBSE) approach, especially for the subjects of science, technology, engineering and mathematics (STEM) or STEAM ("A" stands for Arts) at schools, has been recognized globally, as the best methodology for learning of the scientific and technological processes and natural phenomena taking place in the environment and around us. IBSE is the way of teaching and learning, which instils the willingness of learner to explore new ideas and reliance on evidence and logic. The practical IBSE modules developed by Dryland experts and pedagogy specialists, can be incorporated in the syllabi of school children, particularly in the Dryland areas of the globe; which in-turn can assure the sustainable development of the Dryland areas.

### PARTICIPATION OF ECOSF IN THE 2<sup>ND</sup> ASIAN INNOVATION FORUM AT SEOUL- SOUTH KOREA

The 2<sup>nd</sup> Asian Innovation Forum (AIF) with the theme; "Towards Better Asia: Seeking New Possibilities of Innovation" was organized by Korea Institute of Science & Technology Evaluation and Planning (KISTEP), 30-31 August 2016 at Seoul, South Korea.

All the founder members of ASTN; Academy of Sciences Malaysia; Chinese Academy of Science and Technology for Development (CASTED); ECO Science Foundation (ECOSF); Graduate School of National Public Policy, Chungnam National University; Industrial Technology Research Institute (ITRI); KISTEP; Malaysia Industry-Government Group for High Technology (MIGHT); National Agency for Technology Development (NATD), Republic of Kazakhstan; National Institute of Patent and Technology Exploitation (NIPTEX); National Institute of Science and Technology Policy (NISTEP), Japan; The National Science and Technology Council, Cambodia; Qatar National Research Fund (member of Qatar Foundation), Pardana School of STI Policy of the Universiti Teknologi Malaysia (UTM) and Zaheer Science Foundation joined the forum

The plenary session was opened with the Key note speech by Dr. Robert Atkinson; the founder and president of the Information Technology and Innovation Foundation, followed by three General Sessions with the themes; Transforming Ideas into Reality-Value Creation in the Innovation Economy - Advancing STI Policy Through Science: Evidence Based Policy Making – Mapping The Potential: Fostering Collaborative Networks. President ECO Science Foundation Prof. Dr. Manzoor Soomro made a presentation in General Session I, App Idea 2R Contest- Transforming ICT Based Innovative Ideas to Reality for Achieving SDGs.

The second day of the forum was opened by the keynote speech of Prof. Gordon McBean President of the International Council for Science (ICSU), Co-Chair of the Governing Council for Future Earth: Research for Global Sustainability and Professor Emeritus at Western University, Canada. A General Session was held with a theme of; Meeting Global Challenges: STI for Sustainable Growth. President ECOSF made another presentation: **STI Based Sustainable Development through the Power of IBSE at Grass Root Level** 

COMSTECH also joined the Asian STI Think Tanks Network (ASTN) on the occasion and its Coordinator General Dr. Shaukat Hameed Khan signed the Network agreement on the occasion.



# PREPARATORY MEETING OF "THE FIRST INTERNATIONAL CONFERENCE ON 'SCIENCE, TECHNOLOGY AND INNOVATION POLICY AND MANAGEMENT' (STIP&M 2016)"

ECO Science Foundation and Mehran University of Engineering Technology (MUET) are co-organizing the, First MUET international conference on 'Science, Technology and Innovation Policy and Management' (STIP&M 2016) at the Mehran University Institute of Science and Technology Policy Development (MUISTD) on 16-17 Nov 2016 at Jamshoro- Pakistan to engage the experts of Pakistan with other ECO member states and exchange their expertise in STI policy development and management. In this connection, President ECOSF held a preparatory meeting at MUISTD on 09 August 2016 with Prof. Bhawani Shankar, Dean of MUET and Dr. Arabella Bhutto the Co-Director MUISTD and the conference secretary to review the preparations of the conference.

It is pertinent to mention that the heads of ISTIC-UNESCO Malaysia and KISTEP South Korea- the International partners of ECOSF are also participating in this conference.



### ECO SCIENCE FOUNDATION AND SUKKUR IBA PROMOTING INQUIRY BASED SCIENCE EDUCATION (IBSE)

ECO Science Foundation in pursuance of its objective of capacity building on Inquiry Based Science Education (IBSE) of its member countries through their relevant institutions planned to organizing a 5-days IBSE workshop in Islamabad from 5-9 Sep. 2016 in collaboration with La main a la pate Foundation Franc, Pakistan Science Foundation. Sukkur Institute of Business Administration (Sukkur IBA)- a Chartered Public University was one of the participating institution in the workshop. In this context, President ECOSF Dr. Manzoor Soomro made a prior visit to Sukkur IBA to take



presentations from the nominated participants for the IBSE workshop. Dr. Soomro also visited IBA community college Khairpur and observed students' inquiry based projects. He inquired from the students about their projects and was impressed with the knowledge and science experimentations done by the 8th and 9th grade students in a rural setting. Dr. Soomro highly appreciated and motivated the students to contribute in the society.

Subsequently President ECOSF visited Quaid-e-Awam University of Engineering, Science & Technology (QUEST) Nawabshah, Sindh and held a meeting with Vice Chancellor of Quaid e Awam University of Engineering, Science and Technology (QUEST) Prof. Dr. Abdul Karim



Baloch and discussed the possible collaborations among Pakistani Institutes and other ECO member states in fiels of STI. He also visited the newly established Shaheed Benazir Bhutto University of Veterinary and Animal Sciences (SBBUVAS) at Sakar and held a meeting with the VC of SBBUVAS Prof. Dr. Khuda Bakhsh Mirbahar. Prof Soomro was shown around the laboratories of SBBUVAS by Prof. Dr. Fateh M Soomro. President ECOSF appreciated the establishment of the university in rural Sindh which could play a very vital role in development of livestock sector and uplift the socioeconomic status of farming community.

# MEMORIAL SEMINAR ORGANIZED BY FEDERAL URDU UNIVERSITY OF ARTS SCIENCE AND TECHNOLOGY TO ACKNOWLEDGE THE EFFORTS OF PROF. DR. ABDUL GHAFFAR

Memorial Seminar titled "Recent Trends in Plant Diseases and their Management" on August 10, 2016 was organized by Federal Urdu University of Arts Science and Technology Karach on the first death anniversary of Prof. Dr. Abdul Ghaffar, to pay tribute to his efforts in the field of Plant Pathology in Pakistan.

President ECOSF Prof. Dr. Manzoor Hussain Soomro was invited as a Chief Guest. He in his speech, while acknowledging the efforts of Prof. Ghaffar said that he learnt many things from Dr. Ghaffar since 1983 when he had the opportunity to meet him first time and the fact that he remained Editor-in-Chief of Pakistan Journal of Nematology for so many years- the responsibility has been bestowed upon Dr. Soomro since his sad demise.

#### **UZBEKISTAN'S PRESIDENT DIES AFTER QUARTER CENTURY IN POWER**

Uzbekistan's President H.E. Mr. Islam Karimov has died at the age of 78 after suffering a stroke on 2 September 2016.

The First President of Uzbekistan Islam Abduganiyevich Karimov as an outstanding politician of modernity, a great leader with far sighted and strategic thinking, has won the high respect and authority throughout the world. State and political figures, many citizens of foreign countries have been deeply saddened by the news of the death of Islam Karimov and have expressed their condolences to the People of Uzbekistan.





## 6<sup>TH</sup> INTERNATIONAL CONFERENCE ON MANAGEMENT OF TECHNOLOGY (IRAMOT 2016): CALL FOR PAPERS:

The 6<sup>th</sup> International Conference on Management of Technology (IRAMOT 2016) is being organized by the International Institute for Future Knowledge Development of Iranians, Tehran and ECOSF from 7-8 December 2016 at Tehran, Iran. The conference intends to bring together scholars from different disciplines to enhance the quality of technology and innovation studies in relation to development and growth in the context of international interactions and accelerating pace of change. The conference is going to provide a platform for establishment of scientific and technological cooperation among national and international researchers and experts, as well as introduction of national and international best practices in these fields.

The IRAMOT Conference attracts a large number of leading representatives from industry, academia and policy-makers in the fields of Innovation and Technology Management. It is closely linked to Iranian association of Management of Technology as a non-profit, non-governmental organization established with the aim of promoting the highest quality education and research in the field. ECOSF highly encourages participation of Technologists/Engineers/ Industry from ECO member countries and shall provide air fares to at least one person from each ECO country.

#### Submission Deadline: September 20, 2016

#### Web Link: http://eco4science.org/Call-for-Papers-6th-International-Conference

### DISTINGUISHED VISITORS TO ECOSF

 H.E. Mr. Aimal Marjan, Deputy Minister for IT and Communication of I.R. of Afghanistan made a courtesy call upon President ECOSF on 19 August 2016

 Delegates of 3<sup>rd</sup> Meeting of ECOSF BoT visited ECOSF office on 18 August 2016





 Mr. Hosseinali Darvishi, Chancellor of ECO Affairs, Ministry of Foreign Affairs of Iran and Mostafa Razavi Zadeh, Second Secretary Iran Embassy in Pakistan made a courtesy call on President ECOSF on 16 August 2016



- Mr. Kanan Nazarov, Deputy Secretary General, ECO and Prof. Parvonakhon Jamshedov, Head of Foreign Department, Academy of Sciences of Tajikistan visited ECOSF and met the President on 16 August 2016
- Mr. Salman Naveed Khan, Political Advocacy Campaign Manager, Alif Ailaan called met the President ECOSF at his office on 15 August 2016 and discussed possibilities of collaboration for promotion of Science Education in Pakista Pakistan
- A High-Level Delegation from Chinese Academy of Sciences headed by Prof. Dr. Cui Peng along with the Vice Chancellor of Karakorum International University, Gilgit Pakistan Prof. Dr. M. Asif Khan made an Exploratory Visit to ECOSF on 2 August 2016 and had a discussion with reference to China-Pakistan Economic Corridor.
- UNDP delegation comprising of Ms. Michaela Alexandra Prokop and Ms. Aroob called upon the President ECOSF at his office on 02 August 2016 to discuss the UN Sustainable Development Goals (SDGs) and related aspects including the establishment of Innovation Fund in Pakistan.



#### UPCOMING INTERNATIONAL EVENTS POSTED ON ECOSF WEBSITE AND FB PAGE

# INTERNATIONAL CONFERENCE ON VIRUS DISEASES: ONE HEALTH - ONE WORLD, NOVEMBER 17-19, 2016 KUCHING, SARAWAK, MALAYSIA

In the International Conference on "Virus Diseases: One Health - One World", the virologists will assess the impact of viral diseases on the food security, food safety, nutrition, and income of rural communities in developed and developing countries. Deliberations during the conference will help develop the roadmap for a One Health-One World strategy for effective detection and control of the viral diseases.

Last Date for Abstract Submission: 30 September 2016

Web Link: <u>http://eco4science.org/International-Conference-on-Virus-Diseases</u>

#### **OPPORTUNITIES FOR START-UPS, ENTREPRENEURS AND R&D UNITS OF INDUSTRIES**

The ICCBS Technology Incubator and Industrial Park (TIIP) is pleased to announce the launch of its facilities at ICCBS Campus, University of Karachi. Initially a purpose built building of 20,000 square feet is being offer for start-ups, young entrepreneurs and Research and Development Units of already established Industries. The venture should ideally belong to the following sectors Information Technology (IT), Internet of Things (IoT), Textiles, Pharmaceuticals and Allied Industries, Food Technology, Bio-Technology, Chemical Technology, Medical Diagnostic Kits, and other key Social, Business and Scientific Sectors of the Economy.

Last Date for Abstract Submission: 3 October 2016

Web Link: <u>http://eco4science.org/Opportunities-for-Start-Ups</u>

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