



ECOSF NEWSLETTER



LAMAP's 9th International Seminar on Science in School held at Sevres-Paris

9th International Seminar on Science in School based on Inquiry Based Science Education (IBSE) approach was held in Paris-France from 18-23 June 2018. The Seminar was organized by *La main à la pâte* (LAMAP) Foundation of France as its annual feature since 2010. In the seminar, 44 participants from 20 different countries including 4 participants from two ECO countries (Pakistan and Azerbaijan) attended the seminar. President EC Science Foundation Prof. Dr. Manzoor H. Soomro partially sponsored by the Embassy of France in Pakistan was invited to share ECOSF experiences of IBSE-LAMAP implementation in the ECO Regions. The Ambassador of France in Pakistan H.E. Mr. Marc Barety along with the Cultural Councilor of the Embassy also attended the opening ceremony of the seminar.



The seminar was opened by Prof. M. Daniel ROUN, President of LAMAP at the Headquarters of the Institute de France/Academy of Sciences on 18 June 2018. He welcomed all the distinguished guests and wished a great experience ahead. Afterward, President of the Academy of Sciences Prof. Sébastien Candel spoke to the participants and made a presentation on the activities of the Academy. Subsequently, a senior official from the Ministry of Education of France made a speech. Finally a professor from the Osborne University of Pakistan made a key note presentation on Climate Change and the need for public education. The founding members, senior officials of LAMAP, Ambassador of France to Pakistan also attended the opening ceremony. The Institute has a rich history which was established in 1795 and it has five Academies (Academy of Sciences, Academy of Fine Arts, Academy of Humanities, Academy of French Language and Academy of Moral and Political Sciences), two Divisions and five Missions which are actively contributing to the society locally and internationally. LAMAP is patronized by Academy of Sciences and Ministry of Education of France.



The purpose of the workshop was to raise the awareness of inquiry based science education and its implementation in the educational system through the professional development of teachers. Sharing free methodological and scientific resources developed by LAMAP for teachers and trainers was also the objective of the workshop. The workshop provided an opportunity to lay the foundation for future long-term projects between LAMAP and the participating countries which can foster international cooperation as well as sharing of IBSE experiences from different parts of the world. The intercultural adaptation of the approach and contents of each country was also a significant outcome.

President ECOSF also made a presentation entitled, "Implementation of IBSE in the Developing World-Challenges and Strategies" with emphasis on implementation of IBSE in ECO region. In his presentation, he highlighted the difficulties in IBSE implementation in the developing world and the ways and strategies to redress those. President ECOSF also shared that the environment and systems of developing countries are different from the developed countries, thus, the challenges for implementation of IBSE faced by the developing countries are totally different. Thus the strategies for promoting IBSE in those countries would have to be developed accordingly.

During the workshop, the participants were taken to visit the school system to witness the implementation of IBSE approach of *La main à la pâte* Foundation in live classes, in a suburb of Paris. LAMAP has developed pilot centres and houses of science in different parts of France for facilitation of IBSE implementation in the classes. One of the pilot centers equipped with a range of scientific materials/projects being used in the classes was also visited by the participants. The Pilot Centres help schools to establish scientific laboratories and train the teachers with the support of local administration. The teachers can borrow scientific material from the Centres to conduct any scientific activity in the school.

The experts of LAMAP made some fine presentations covering the aspects of IBSE methodology development, training, implementation, etc. The group discussions, exercises and small projects were performed/made focusing on the inquiry based science education (IBSE) in schools. The participants studied and learnt a well thought framework of science inquiry prepared by LAMAP which covers six main phases i.e. Discuss, Debate, Cooperate, Record, Reflect and Share.

A poster presentation on IBSE by each participating country was also arranged. A cultural show sharing the variety of traditional dishes/sweets was also the part of the workshop which was attend and greatly enjoyed by all the participants.



ECOSF and HEC collaborate to introduce the GreenMetric World University Ranking for Higher Education Institutes in Pakistan

Higher Education Commission (HEC) and ECO Science Foundation (ECOSF) are collaborating to introduce the Universitas Indonesia (UI) GreenMetric World University Ranking for Higher Education Institutes (HEIs) in Pakistan. In this context, a consultative meeting was held on June 5th, 2018 at HEC to review and assess the adoption of this ranking for HEIs in Pakistan. The meeting also contributed to and aligned with the global event on the World Environment Day 2018 for promotion of sustainability, concept of green and sustainable campuses in universities. It is pertinent to mention here that ECOSF helped introduce this concept of GreenMetric Ranking to HEC in Pakistan. ECOSF sponsored the participation of HEC representative in the 1st International Conference on Green University at Ferdowsi University of Mashad in February 2018, in which ECOSF was one of the co-organizers of this conference.



The consultative meeting was chaired by Prof. Arshad Ali Executive Director HEC and attended by senior officials of HEC and representatives of Universities. On behalf of ECOSF, the President ECOSF Prof. Dr. Manzoor Hussain Soomro and Mr. Khalil Raza Scientific Officer participated in the meeting. The representatives of six universities, which are already participating in the ranking delivered their presentations highlighting their efforts in implementation of Green Campus Framework.

Prof. Arshad Ali, Executive Director HEC appreciated the initiative by Univeristas Indonesia (UI) of developing such a ranking. He stressed over the need to maximize the participation of Pakistani universities in the upcoming rankings. HEC would fully support in adopting this concept in Pakistani higher education institutions, he said. He appreciated the support of ECOSF in introducing this concept for HEI in Pakistan.

Prof. Dr. Manzoor Hussain Soomro President ECOSF appreciated the efforts of HEC for formally recognizing and initiating this ranking program in Pakistan at HEC, which will lead towards wider adoption of this ranking and promote sustainability in University Campuses across Pakistan. He proposed to establish a coordinating unit on Green and Sustainable Campuses at HEC for effective implementation and liaison with Universities across Pakistan. He shared that ECOSF has signed a MoU with Ferdowsi University of Mashad, Iran (FUM) for promotion of Green and Sustainable Campuses in the ECO region, including Pakistan. Thus he proposed and assured his support and collaboration in establishing a linkage between FUM and HEIs of Pakistan for implementation of this GreenMetric ranking in Pakistan.

Prof. Raza Bhatti Member O&P highlighted the significance of the GreenMetric Ranking and linked it with the theme of World Environment Day 2018, which is "Beat the Plastic Pollution". He said the hazards of plastic use in daily life need to be disseminated so that the young generation may not only refuse the use of plastics, but can also influence their families to stop its use.

HEC Monitoring and Evaluation Director Mr. Naveed Shah presented his presentation on the concept of this ranking system which is based on the indicators viz. setting and infrastructure, energy and climate change, waste, water, transportation, and education.

The participants agreed to organize a National Workshop on July 9, 2018 in collaboration with UI GreenMetric World University Ranking where all the universities of Pakistan will be invited to participate.



An International Workshop on Options for an Energy Mix: Issues of Cost and Sustainability held in Islamabad

COMSTECH organized a 3-day workshop entitled “Options for an Energy Mix: Issue of Cost and Sustainability” from 26th to 28th June 2018 to explore sustainable energy pathways and share experience and knowledge amongst the energy professionals and academicians of Organization of Islamic Countries (OIC) countries. The objective of holding this workshop was to recommend viable strategies for developing improved and sustainable energy portfolio amongst the OIC member states. The workshop attracted a large number of local and foreign participants from academia, power sector and industry, as well as experts from Turkey, Australia, China, Malaysia, Uganda, Nigeria and Bangladesh. Resource persons for the workshop include national & international experts with experience in technology development, energy management, policy frameworks and energy economics. On behalf of ECOSF, Prof. Dr. Manzoor Hussain Soomro President ECOSF and Engr. Khalil Raza Scientific Officer participated in the inaugural ceremony of the Workshop.

Mr. Sartaj Aziz Deputy Chairman of the Planning Commission of Pakistan inaugurated the International Workshop. In his address, Mr. Aziz outlined the measures undertaken by the previous government to respond to the issues by addressing the power mix and enhancing generation capacity, adding power plants based on cheap, coal — imported and local, Liquified Natural Gas (LNG) and local natural gas. He also highlighted the efforts of the previous Government for initiating the work on several hydel projects including the Tarbela extension, as well as Dasu and Diamer Bhasha dams. Mr. Aziz gave a brief historical account of the current energy crisis in the country. Unfavorable energy mix with high cost of imported fuel based power generation and inconsistent energy policies have escalated the energy crisis in Pakistan, he said. Thus, he stressed over the Integrated Energy Planning for devising the future energy scenarios and pathways for sustainable energy sector of Pakistan.



COMSTECH Coordinator General Prof. Dr. Shaukat Hameed Khan was the Keynote Speaker in the workshop. Prof. Khan presented a comprehensive and broad-ranging review of the global energy transition, highlighting initiatives to decrease

reliance on conventional sources of power by including various renewable sources as part of the energy mix. He also presented an analysis on potential of renewable energy generation and highlight various challenges in penetration of renewable energy technologies in various OIC Member Countries including Pakistan.

Earlier, **Prof. Dr. S. Khurshid Hasanain Senior Expert, COMSTECH Secretariat** introduced to the participants about this International Workshop and roles & functions of COMSTECH. He outlined the core mandate of COMSTECH which is to strengthen cooperation among Organization of Islamic Countries (OIC) Member States in Science and Technology (S&T), and enhance their capabilities through training in emerging areas. He also highlighted the importance of this workshop that is to develop the technical capacity and sharing of the best practices of sustainable energy development, which is critical to inclusive economic growth in the Islamic World.



Leading national & international experts with vast experience in technology development, energy management, policy frameworks and energy economics conducted the workshop in following key areas of sustainable energy:

- The Energy Transition and Competition from Evolution of Fossil Fuels
- Challenges in Integration of Renewables into the Power Grid
- Efficiency in generation and use, and smart cities
- Hydropower: Micro and Small scale dams
- End of life environmental impact of different energy technologies
- Water Matters : Energy generation demands, recycling & reuse
- Energy policy and life cycle costs of energy generation (LCOE)

ECOSF-supporting Science Summer Camp - 2018

The Science Summer Camp – 2018 is being organized by Pakistan Science Club in collaboration with ECOSF from May 17 – June 9 and June 25 – July 18 in Karachi. The Camp is an opportunity for students to learn, devise and explore about different scientific happenings by doing hands-on activities and projects. This camp is a platform for young students to engage in strengthening their cognitive and creative skills with a range of fun experiments from conducting scientific experiments to creating their very own robots.

Read more: <http://eco4science.org/Summer-Science-Camp-2018>



ACIAR Country Manager for Pakistan called upon President ECOSF

The Country Manager of Australian Centre for International Agricultural Research (ACIAR) from Australian High Commission, Islamabad Dr. Munawar Raza Kazmi made a courtesy call upon President ECO Science Foundation on June 6, 2018.

Dr. Munawar R. Kazmi discussed with Prof. Dr. Manzoor H. Soomro the possibilities of developing interaction between the experts of Pakistan and central Asia with particular reference to network of agriculture Universities and Institutions as well as the facilitators of different agriculture technologies and approached for capacity building of farming industry.



The two agreed in principle to build on the strength of IPM Facilitators in Farmer Field School approach in Pakistan and possibly organizing a congress of facilitators from across the ECO member states where by other international stakeholders such as Food and Agriculture Organization (FAO) and Islamic Development Bank (IDB) can also be brought in.

Campaign Director of Alif Ailaan and CEO of Pakistan Alliance for Maths and Science (PAMS) called upon President ECOSF

Campaign Director of Alif Ailaan Mr. Mosharraf Zaidi and CEO of Pakistan Alliance for Maths and Science (PAMS) Mr. Salman Naveed called upon President ECOSF Prof. Dr. Manzoor Hussain Soomro. Prof. Soomro appreciated the efforts undertaken by the Alif Ailaan and PAMS for promotion of Science, Technology, Engineering and Mathematics (STEM) subjects in Pakistan. The dignitaries discussed the various aspects for the promotion of science education in Pakistan and as well as sustainability of PAMS. The dignitaries also agreed to organize a meeting of PAMS member and stakeholders to prepare a future plan of action.

It is pertinent to mention that Prof. Soomro has been supporting the science education activities of PAMS.

**Upcoming Events posted on ECOSF Website and Facebook Page****35th World Conference on Science Parks and Areas of Innovation – Isfahan, Iran**

The 35th World Conference on Science Parks and Areas of Innovation will be organized by International Association of Science Parks and Areas of Innovation in collaboration with ECOSF from 2- 5 September 2018 at Isfahan, Iran.

The IASP Pre-conference Seminar will also be organised directly by the IASP Headquarters and is designed to meet the needs of professionals who are appointed to set up a new science park, as well as for those who are new to our industry. The seminar will look at the crucial main concepts in the inception, conceptualisation, planning and management of science parks and other areas of innovation: strategic models, incubation, marketing and communication, services, governance, challenges and opportunities.

Read more: <http://eco4science.org/Science-Parks-and-Areas-of-Innovation>

Call for Applications to STI Policy Training Workshop in China

CISTRAT, a training and research centre on STI policy under the auspices of UNESCO and based in Chinese Academy of Science and Technology for Development (CASTED).

An international training workshop is being held in this September which is calling for applications on the following page (<http://en.casted.org.cn/channel/newsinfo/6493>). This training workshop will cover the following topics related to S&T policy: S&T Planning, S&T Management System, S&T Statistics, S&T Finance, S&T Foresight, S&T Talents, S&T in Industrial Development, S&T in Regional Development, etc.

The deadline for application: June 29th, 2018.

Technopreneurship for Women in STI Training Workshop on Technopreneurship for Women in Science, Technology and Innovation, 9 - 12 July 2018, Kuala Lumpur, Malaysia

The International Science, Technology and Innovation Centre for South-South Cooperation under the auspices of UNESCO (ISTIC) in collaboration with the Ministry of Science, Technology and Innovation (MOSTI) Malaysia, Ministry of Women, Family and Community Development (KPWKM) Malaysia and NAM Institute for the Empowerment of Women, Malaysia (NIEW) is conducting a Training Workshop on Technopreneurship for Women in Science, Technology and Innovation from 9 – 12 July 2018, Kuala Lumpur, Malaysia. Details of the training workshop are attached in the brochure.

The objective of the training workshop is to provide real-world, hands-on, immersive learning about what it takes to successfully transfer knowledge into products and processes that benefit society. The workshop will provide the necessary knowledge and tools on how to commercialise their research findings.

Read more: <http://eco4science.org/Technopreneurship-for-Women-in-STI>

Training Workshop on Developing Leadership Talents of Women in Science, Technology and Innovation (STI), 17th – 20th July 2018, Kuala Lumpur, Malaysia

ISTIC is organizing a Training Workshop on Developing Leadership Talents of Women in Science, Technology and Innovation (STI) from 17th – 20th July 2018 in Kuala Lumpur, Malaysia.

The workshop is organised in view of the need to develop the leadership capacities of female scientists and technologists. Women with the qualifications, talents and potential to become leaders and later members of the board should be given the opportunity to equip themselves with the right knowledge, skills and attitudes.

Read more: <http://eco4science.org/Leadership-of-Women-in-STI>

6th High School Summer Science Research Program (HSSSRP-2018) - Contest

The 6th High School Summer Science Research Program (HSSSRP-2018) Contest is jointly organized by Quaid-i-Azam University Islamabad, ECOSF, Pakistan Science Foundation (PSF) and Takmil Foundation. The registration for 6th High School Summer

Science Research Program (HSSSRP-2018) Contest is open. The students of 9th & 10th Grade, O/A Level, F.Sc students can participate in the contest. Teaching faculty/Researchers can attend the program.

The objectives of the program are:

- Engage High School Students in Research.
- Expose Young Students to cutting edge research.
- Develop research culture in Schools.
- Encourage students to present in scientific conference.
- Engage faculty to train high school students.

Last Date for Registration: June 15, 2018.

For criteria and further details, visit: www.hsssrp.org

World Youth Forum “Right to Dialogue”

The 11th edition of the yearly World Youth Forum “Right to Dialogue”, that will take place Sept. 28 to 30, 2018 in Trieste (Italy), and whose theme will be “Ethics and complexity, complexity's Ethics”.

The event is organized by the association “Poesia e Solidarietà” (Poetry and solidarity) in collaboration with Centro Internazionale di Studi e Documentazione per la Cultura Giovanile - Università di Trieste (International Centre for Studies and Documentation on Youth Culture – University of Trieste), and was created within the network of the International Poetry Competition “Castello di Duino - Poetry and Solidarity Language of the Peoples”, which has so far involved thousands of young people from about 100 countries all around the world.

Read more: <http://eco4science.org/Right-to-Dialogue>

