



ECOSF NEWSLETTER



President ECOSF called upon the Minister for Science and Technology of Pakistan

The President ECO Science Foundation (ECOSF), Prof. Dr. Seyed Komail Tayebi made a Courtesy Call upon the Minister for Science and Technology of Pakistan H.E. Dr. Khalid Maqbool Siddiqui at his office. President ECOSF was accompanied by the Executive Director Dr. Ghulam Muhammad Memon (Ex-Federal Secretary of Ministry of S&T Pakistan) and Mr. Ghulam Abbas Rahar, Manager (Administration). The Minister S&T warmly welcomed the President ECOSF and his team.



Later, President ECOSF made an introduction of the Foundation and said that ECOSF is a specialized agency of Economic Cooperation Organization (ECO) and an intergovernmental organization of ten regional countries i.e., Afghanistan, Azerbaijan, Iran, Kazakhstan, Kyrgyzstan, Pakistan, Tajikistan, Türkiye, Turkmenistan and Uzbekistan. He further said that the main objective of the Foundation is to promote Science, Technology and Innovation (STI) based activities among the Member Countries leading to Economic Development. Keeping in view the significance and drastic impact of the Climate Change on Pakistan, the Foundation has been working on Climate Change Education with focus on the Youth as the youth is major and important part of population of Pakistan and the region, added the President ECOSF. He also mentioned that one of the Flagship programmes of the Foundation is promotion and implementation of Inquiry Based Science Education (IBSE) among Member Countries. Prof. Tayebi also shared that recently, a project on Science, Technology, Engineering and Mathematics (STEM) Toys has been launched with National Science Museum of Thailand to develop the capacity of the students and youth of member countries on STEM through traditional and scientific toys. President ECOSF also mentioned that 6th Meeting of Board of Trustees (BoT) of ECOSF will be held in Pakistan wherein, the Minister of S&T Pakistan should chair, thus, the confirmation of the meeting dates was requested.

H.E. Dr. Khalid Maqbool Siddiqui thanked the President ECOSF for updating about ECOSF and its programmes. He also appreciated the contribution of the Foundation towards promotion of STI in Pakistan as well as in the ECO region. The Minister welcomed the holding of 6th Meeting of ECOSF BoT in Pakistan and assured to host the meeting and active participation by the Ministry. Dr. Siddiqui also offered maximum possible support in realization of ECOSF aims and objectives. The Minister also said to Prof. Tayebi to consider Pakistan as his second home as the culture of Pakistan and Iran is almost similar so there would not be any problem living in Islamabad.

ECOSF Contributed to the 8th International Symposium on Science Festival 2024

August 21, 2024: ECOSF participated and contributed to the 8th International Symposium on Science Festival 2024 was held at IMPACT Exhibition and Convention Center, Thailand. The international symposium was held as one of the key sideline events of the National Science and Technology Fair 2024 in Thailand. At the beginning of the symposium, Dr. Rawin Raviwongse, President of National Science Museum (NSM) Thailand delivered his welcoming and opening remarks. He said he and his team aim to turn the NSM into “a place where everyone can discover the wonders of science” and to play a more active role in promoting science literacy in Thailand and other ASEAN countries.



Then, Dr. Kritsachai Somsaman Director of Southeast Asian Ministers of Education Organization Regional Centre for STEM Education (SEAMEO STEM-ED) presented a keynote speech on the importance of promoting STEAM and cultural education for all. After the coffee break, a special session was organized by Mr. Kosin Virapornsawan, Managing Director, Plan Toys, Dr. Peeranut Kanhadilok, Director, National Centre for Public Awareness of science, National Science Museum Thailand and Mr. Thanakorn Palachai, Science Communication Specialist, Royal Award for Lifelong Commitment to Excellence in the Communication of Science, Scotland, and Former Vice President of National Science Museum Thailand. They talked about perspectives and experiences of using toys and toy-making to promote STEAM and cultural education for all, and to foster the conservation and distribution of local wisdom and traditional toys for future generation development.



Dr Ganigar Chen, Vice President, National Science Museum Thailand, overview the International Symposium on Science Festival 2024 and introduced ECO Science Foundation (ECOSF) as new NSM’s friend of partnership. She mentioned that both organizations (NSM and ECOSF) are the members of BRISEC (Belt and Road International Science Education Consortium) and conducted deep cooperation in different programs.

In his speech, Professor Seyed Komail Tayebi, President ECOSF, extended his heartfelt thanks to the NSM for inviting the ECOSF team in order to participate this important event. Prof. Tayebi introduced the ECOSF, which is as an intergovernmental organization and a specialized agency of the Economic Cooperation Organization (ECO) based out of Islamabad Pakistan.

Read more: <https://ecosf.org/Science-Festival-2024-1>

ECOSF Participates in National Science and Technology Fair (NST Fair) Thailand

August 16-25, 2024: The ECO Science Foundation (ECOSF) President, Prof. Seyed Komail Tayebi alongside the Vice President of the National Science Museum (NSM) Thailand Dr Ganigar Chen visited the National Science and Technology Fair (NST Fair) 2024, held at the IMPACT Exhibition and Convention Center. The event has been organized annually by the Ministry of Higher Education, Science, Research, and Innovation (MHESI) Thailand since 2006.

The NST Fair aims to raise public interest in science by showcasing advancements in science, technology, and innovation, along with highlighting local wisdom. It offers engaging and educational experiences for youth and the general public. Each year, the fair attracts over one million visitors, reinforcing its role as a major platform for science literacy in Thailand.



President National Science Museum (NSM) hosts Official Dinner

At the official dinner, Prof. Tayebi presented the ECOSF shield as well as a Pakistan traditional toy to Dr. Rawin Raviwongse, President of National Science Museum (NSM) and Dr Ganigar Chen, Vice president of NSM.



ECOSF Contributes to ASPAC Masterclass for Emerging Leaders (AMEL) 2024 in Thailand

President ECOSF, Prof. Seyed Komail Tayebi and the ECOSF team actively participated in the ASPAC Masterclass for Emerging Leaders (AMEL) 2024 workshop, held on the sidelines of the National Science and Technology Fair. The theme for this year's event, "Learning from the Past to Strengthen the Future with Traditional Toys," focused on using traditional toys to promote STEAM education.



The workshop brought together over 18 participants from 11 organizations across 10 nations, including Thailand, Singapore, the Philippines, Pakistan, Iran, Indonesia, Turkey, Laos, China, Cambodia, and Myanmar.

On the first day, participants explored Thai traditional toys through lectures and hands-on activities. The session highlighted how these toys can be used to teach science and STEM concepts and introduced the Engineering Design Process (EDP) to promote STEAM through toy-based curriculums. Group assignments wrapped up the day, encouraging participants to develop new ideas.

During the second day, attendees engaged in networking and collaborated on creating programs to promote STEAM using toys. Activities included brainstorming, planning, and designing prototypes, followed by group presentations. The event concluded with a certificate ceremony and closing remarks from the President of NSM, who emphasized the importance of expanding international collaboration in STEAM and cultural education.

Prof. Tayebi shared his appreciation for the workshop, stating, "This event offered us valuable knowledge on STEAM education and an excellent opportunity to build networks for future collaboration."





President ECOSF visits the Thailand Institute of Science and Technological Research (TISTR)

During his visit to the National Science and Technology Fair, President of ECO Science Foundation (ECOSF), Prof. Seyed Komail Tayebi visited the Thailand Institute of Science and Technological Research (TISTR). He met with Mrs. Sirinan Thubthimthed, Chief Administrative Expert and Acting Director of the Expert Center of Innovative Health Food, and Ms. Rattana Ngamvisitsil from the International Relations Division.

Mrs. Sirinan warmly welcomed Prof. Tayebi and provided an overview of TISTR's mission and activities. She explained that TISTR's vision is to strengthen SMEs and communities by fostering an innovation-driven ecosystem based on science and technology for sustainable development. TISTR's core mission includes conducting research, development, and integration of science, technology, and innovation to create value-added economies based on biodiversity. This enhances national competitiveness while promoting sustainable development. Additionally, TISTR offers services in analysis, testing, calibration, quality certification, training, and consultancy.



Prof. Tayebi expressed his gratitude for the warm reception and briefed the TISTR team about ECOSF's mandate. He highlighted that ECOSF aims to promote scientific and technological research across its 10 member countries, including Afghanistan, Azerbaijan, Iran, Kazakhstan, Kyrgyzstan, Pakistan, Tajikistan, Turkey, Turkmenistan, and Uzbekistan. The foundation focuses on building human resource capacity in science education, strengthening institutional capacity in scientific research, and fostering collaboration in science and technology through workshops, conferences, and scientific meetings.

Prof. Tayebi emphasized the close collaboration between ECOSF and the National Science Museum (NSM) of Thailand and suggested that there could be synergies between TISTR and ECOSF. He underscored that both institutions share a common mission and vision, especially in promoting science, technology, and innovation for sustainable development.

President ECOSF held a meeting with NSM Leadership

President of ECOSF, Prof. Seyed Komail Tayebi held an official meeting with Dr. Ganigar Chen, Vice President of the National Science Museum (NSM) Thailand, and her colleagues. Dr. Chen warmly welcomed Prof. Tayebi and the ECOSF team to Thailand.

Dr. Chen expressed her appreciation for ECOSF's participation in the 8th International Symposium on Science Festival, the ASPAC Masterclass for Emerging Leaders (AMEL), and other related activities. She noted that the collaboration between NSM and ECOSF has been fruitful and productive, and she emphasized the importance of further strengthening their partnership to promote science, technology, and innovation (STI) in both the ECO and ASEAN regions.

Prof. Tayebi extended his gratitude to the NSM leadership for the opportunity to participate in these events and echoed Dr. Chen's sentiments about the potential for deeper cooperation.



President ECOSF visited the National Science Museum (NSM)

Professor Tayebi, President ECOSF, accompanied by other international participants of the 8th International Symposium on Science Festival 2024 visited different parts of the National Science Museum (NSM), Thailand, including the Science Museum, the Natural History Museum and the Information Technology Museum.

The NSM takes responsible for development and management of science museums and learning centers comprising: Science Museum, Natural History Museum, Information Technology Museum and Rama IX Museum. The core objective of NSM has been to stimulate and encourage the Thai society to attend and understand the importance of science towards country development, and to cultivate young generation in having positive attitude towards utilization of science and technology.



ECOSF co-hosted the Workshop and Hands-on Activities at the NST Fair Thailand

August 25, 2024: At the National Science and Technology Fair (NST Fair) held at the IMPACT Exhibition and Convention Center, ECOSF trainers Ms. Elaheh Ranai Rad and Ms. Zeinab Sadat Tayebi conducted engaging workshops on Persian traditional and ancient toys for STEAM education. These workshops were a highlight for the attending Thai children and their families.

The workshops were divided into two sessions. The morning session focused on creating an optical illusion toy known as "TABLAK and VIZVIZHAK." This activity aimed to help children understand the basic principles of visual perception and how the eyes and brain work together to interpret images.

In the afternoon, participants worked with a Persian toy called the "RATTLE." Children crafted their own rattles using a variety of materials, including plastic, wood, metal, fabric, silicone, and natural elements such as seeds, pebbles, and bones. They explored how different materials and shaking speeds affect the sound produced by the rattle. The activity allowed children to investigate various physical characteristics, including size, color, shape, and volume, and understand how these features influence the sound.

The workshops were well-received by attendees, particularly Thai families, and demonstrated successful collaboration between the Thai and Iranian teams in organizing this enriching event.



ECO Science Foundation (ECOSF) Hosts Panel Session on 'Emerging Technologies for Sustainable Development' at Global B2B Expo & Conference



August 12, 2024 — The ECO Science Foundation (ECOSF) co-organized a panel discussion on "Catalyzing Emerging Technologies for Sustainable Development" as a sideline event at the Global B2B Expo and Conference. The event was held in partnership with the SDG Academy, Security Experts, Pakistan Information Security Association (PISA) and Pakistan Telecom Authority (PTA), brought together experts from various fields to explore the transformative role of technology in advancing sustainable development goals (SDGs).



The session was headlined by a keynote address from Prof. Seyed Komail Tayebi, President of ECOSF. In his speech, Prof. Tayebi emphasized the critical importance of harnessing emerging technologies such as artificial intelligence, blockchain, and renewable energy solutions to tackle global challenges and drive sustainable growth. He highlighted that these technologies offer unparalleled opportunities to address issues like climate change, energy security, and social inequality which are central to achieving the SDGs.

Following the keynote address, a panel discussion featuring esteemed experts in technology and sustainable development took place. The panelists shared their insights on how innovative technologies are reshaping industries, enhancing climate resilience, and promoting inclusive economic growth.

Mr. Khalil Raza, Programs Manager for Energy and Climate at ECOSF also contributed as a panelist. He provided a focused perspective on the role of clean technologies in addressing climate change, particularly within the context of



Pakistan. Mr. Raza discussed the potential of climate-smart agriculture, renewable energy, and disaster risk management technologies to build resilience and support the country's efforts in achieving SDG 13—Climate Action.

The event concluded with a Q&A session, where participants engaged with the panelists on a range of topics, reflecting the growing interest and urgency in integrating emerging technologies into sustainable development strategies.

ECOSF and SMUS Joint Webinar: Transforming Rehabilitation Practices & Education in the AI Era



ECO Science Foundation (ECOSF) and Smart University of Medical Sciences (SMUMS) organized a joint webinar focused on the pivotal role of AI in transforming rehabilitation practices and education.

Dr. Reza Beikzadeh served as the keynote speaker for this webinar, who is a renowned expert in Artificial Intelligence with over 30 years of experience across academia, research and development centers, and industry. Dr. Beikzadeh has been associated with AI training programs for leading organizations such as Axiata, Tenaga Nasional, MIMOS, and Sharp.

Dr. Beikzadeh provided a comprehensive overview of how AI technologies are revolutionizing the field of rehabilitation, offering innovative solutions for both clinical practice and educational frameworks. Dr. Beikzadeh discussed various development and application of AI tools that enhance rehabilitation processes, including advanced robotic systems, personalized treatment plans, and virtual reality-based therapies. Dr. Beikzadeh addressed the challenges in implementing AI solutions in rehabilitation settings, such as data privacy concerns and the need for interdisciplinary collaboration. He concluded his talk by highlighting emerging opportunities for advancing both practice and education in the field.

Upcoming Events posted on ECOSF website and Facebook Page

Kuala Lumpur Engineering Science Fair (KLESF)

KLESF International Challenge 2024, an international competition will be organized in conjunction with the Kuala Lumpur Engineering Science Fair: The Fair 2024 (KLESF 2024): on 8-10 November 2024 at the MIECC, Kuala Lumpur.

The KLESF International Challenge aimed at encouraging young minds to explore science, technology, engineering, and mathematics (STEM). Organized by the Kuala Lumpur Engineering Science Fair (KLESF), this challenge offers primary and secondary school students a platform to showcase their creativity and problem-solving skills through innovative STEM-related projects.

Should you require any further information or wish to discuss how you can further support this initiative, please feel free to reach out to contact the contact person:

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Official Website: <https://www.klesf.net/klesf-challenge-2024/>