



# ECOSF NEWSLETTER



## President ECOSF Called Upon the Ambassador of Turkmenistan in Islamabad

On September 14, 2023, Professor Seyed Komail Tayebi, President of ECOSF, visited the Turkmenistan Embassy in Islamabad, where he met with His Excellency Mr. Atadjan Movlamov, the Ambassador of Turkmenistan. President Tayebi received a warm welcome upon his arrival at the Embassy by the Ambassador.



During the visit, President ECOSF and the Ambassador convened a meeting to discuss matters related to ECOSF, Turkmenistan, and the ECO region. The meeting was also attended by Mr. Ghulam Abbas Rahar, ECOSF's Manager of Administration and Mr. Eldar Permonov, 3rd Secretary at the Embassy.

Prof. Tayebi highlighted that since its establishment in December 2011, the Foundation has been dedicated to promoting and supporting activities related to Science, Engineering, Technology, and Innovation (SETI) in its Member Countries. Additionally, Prof. Tayebi shared ECOSF's upcoming plans to host a significant event such as 7th Teenager Maker Camp to be held in China in November this year, the "Technology and Trade Expo and Conference," in Islamabad early next year and IBSE workshop in Turkmenistan. The TTEC will feature universities, technology firms, scientists, and academia. The President ECOSF also requested the Ambassador to follow up the commitment of Turkmenistan for payment of financial contribution and the related arrears to the ECOSF.

H.E. the Ambassador took keen interest in the discussion and appreciated the role of ECOSF to promote SETI in ECO region. Mr. Movlamov thanked the Foundation to invite Turkmenistan's science community to attend diverse events of ECOSF. He assured that Turkmenistan is in process of nominating team for 7th Teenager Maker Camp. He also admired to organize mega event



of TTEC and hoped that a good number of relevant stakeholders from Turkmenistan will attend the event. He assured his possible support to release the funds to ECOSF.

At the end, the Ambassador presented a shield to President ECOSF. Prof. Tayebi also invited the Ambassador to visit ECOSF Secretariat which was happily accepted.

**President of ECOSF called upon Chairman of Higher Education Commission (HEC) of Pakistan to promote quality higher education in the ECO region**

**Islamabad, September 4, 2023** – President of the ECO Science Foundation (ECOSF), Prof. Seyed Komail Tayebi held a meeting and engaged in constructive discussions with the Chairman of HEC, Prof. Mukhtar Ahmed and other prominent stakeholders. The primary aim of this high-profile gathering was to enhance collaboration between HEC Pakistan and universities within Pakistan and the 10 Member Countries of the Economic Cooperation Organization (ECO) in areas of shared interest.



Alongside Prof. Mukhtar Ahmed, other participants included Mr. Awais Ahmad, Executive Director of HEC; Prof. Dr. G. Raza Bhatti, Vice Chancellor of Shaikh Ayaz University; Mr. Khalil Raza, Programme Manager at ECOSF; and Mr. Rabeel Bhatti, Manager of Global Engagement at HEC.

During the meeting, Prof. Mukhtar Ahmed reaffirmed his commitment to strengthening cooperation between HEC and ECOSF, offering full support for collaborative initiatives. Prof. Tayebi commended Prof. Mukhtar's leadership and acknowledged HEC's dedication to promoting quality higher education.

The meeting focused on five priority areas for collaboration:

1. **Science & Technology Parks Development:** ECOSF proposed leveraging the knowledge and expertise of ECO member countries, particularly Iran, Turkey, Kazakhstan, and Azerbaijan, to assist HEC in developing science and technology parks in Pakistan. This collaboration aims to foster innovation and technology-driven growth.
2. **Consortium of ECO Scientific Institutions:** The idea of establishing a consortium of ECO universities and scientific institutions focused on Clean Energy, Water, Agriculture, Health, Business Environment, and Digital Technologies was discussed to encourage interdisciplinary research and knowledge sharing.
3. **Faculty and Student Exchange Programs:** Both organizations explored opportunities for faculty and student exchange programs, including scholarships, fellowships, short visits, and collaborative research projects to enhance academic excellence, cross-border cooperation, and cultural diversity among ECO member countries.
4. **ECO Trade and Technology Expo and Conference (TTEC):** ECOSF's plan to host the Trade and Technology Expo and Conference in 2024 was presented, offering a unique platform for academia, businesses, technology companies, start-

ups, research organizations, and government agencies from ECO member countries to showcase innovations. HEC was invited to be a strategic partner in organizing and promoting this event.

5. **Climate Change Education:** ECOSF's expertise in Climate Change Education and Mitigation was discussed, with the intention of partnering with HEC to disseminate the Climate Change Education framework within Pakistani universities and other scientific institutions.



This meeting marked a crucial step towards advancing education, research, and innovation in Pakistan and the ECO region. Both organizations demonstrated their commitments to advance collaborative efforts that will contribute to sustainable development and regional integration, addressing shared challenges on a broader scale.

### President ECOSF Participated in National Youth Policy Dialogue on Climate Change

Pakistan's First National Youth Policy Dialogue on Climate Change was organized by SDGs Academy in collaboration with the United Nations Development Programme, COMSATS University, and the International Human Rights Commission on September 13, 2023, at Marriott Hotel in Islamabad.



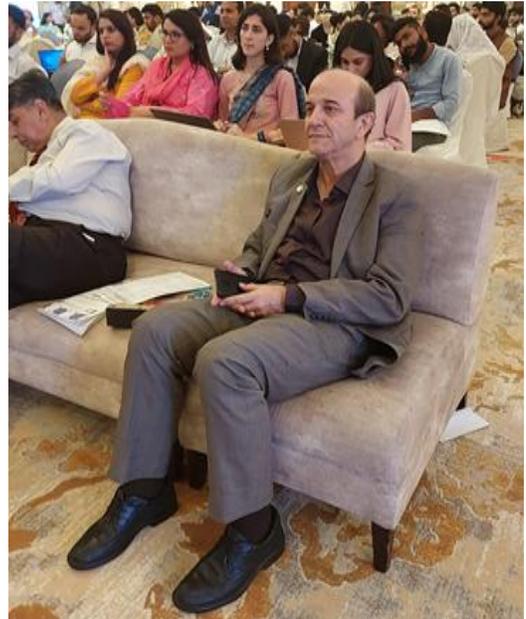
A large number of students from schools and colleges, teachers, and researchers participated in the event from all over Pakistan. Youngsters came up with innovative, workable, and creative ideas to make the country green and clean. On behalf of ECOSF, President Prof. Dr. Seyed Komail Tayebi participated in the event.

Prof. Tayebi also met with Chairman and Founder of SDGs Academy Mr. Ammar Jaffri and Ms. Nelam Pari, Chief Operating Officer of the Academy. The discussion of President ECOSF was based on the impacts of climate change in the world with special focus on ECO region.

Weather extremes and climate change are directly affecting humanity globally. Last year, Pakistan was hit by severe floods and before that, the deadly heat wave of Sindh claimed thousands of lives in Pakistan. To counter this menace of climate, change the government and private sector along with non-profit organizations are working on the issue.

In this context, the dialogue was one of the endeavors made by the private sector alongside NGOs working on curbing the factors affecting our climate and environment.

Experts think that it is high time that the world should tackle climate change. Old and depreciated transport, industrial and agriculture waste and gasses, increasing residential schemes on green fertile lands and cutting forest and mountain to build hotels and residential projects is causing havoc for our environment. In Pakistan, with a few health resources it is impossible to manage increasing health issues relating to climate change and environmental pollution.



**ECOSF contributed to the 2<sup>nd</sup> International Seminar on Climate Change Education, hosted by OCE France.**

The Office for Climate Education organized the 2<sup>nd</sup> **International Seminar on Climate Change Education** from September 12th to 15th, 2023 in Paris, France. This event brought together a multitude of stakeholders, such as international development banks, foundations, ministries or NGOs from all regions of the world, engaged in the implementation of climate change education (CCE). On behalf of ECOSF, Mr. Khalil Raza, Programme Manager, Energy and Climate participated in the event.



On Tuesday, 12th September 2023, participants gathered at the prestigious Fondation Simone et Cino Del Duca - Institut de France in Paris, a fitting setting to launch this event which aims to **promote and implement climate change education on a global scale**. The seminar began with a warm welcome from **Eric Guilyardi, President of the OCE**, followed by an enlightening presentation from **Sophie Szopa**, Research director and Vice-President Sustainable Development at Paris-Saclay University, on the latest publications of the **IPCC**. All panel discussions were skillfully moderated by **Dorothee Moisan**, a journalist and author

specializing in climate and environmental issues. Various topics were addressed during this first day, in particular the role of **national and international institutions and actors from the philanthropic world** in the implementation and acceleration of climate change education (CCE).

The panelists included **Coralie Noël from the Ministry of National Education and Youth, Jun Morohashi from UNESCO and Musa Garba Maitafsir from the National Institute of Teachers in Kenya** who took part in the first roundtable discussing the role of national and international institutions in the development of climate change education.



During the second roundtable, the doctors **Nina Smidt of Siemens Stiftung, and Deb L. Morrison of the University of Washington alongside Vivian Puerta Guerra of the EPM Foundation (Empresas Públicas de Medellín)** engaged in a discussion on the following topic: How can philanthropic partners contribute to accelerating the implementation of climate change-related education?

The rest of the seminar took place at **La Bergerie de Villarceaux**, featuring three intensive days of workshops exploring the fundamentals of climate change education to gain practical knowledge on a range of crucial topics:

- Understanding inquiry-based science **pedagogy approaches** through Thematic Workshops on the Greenhouse Effect, Ocean and the Cryosphere.
- Exploring **human and social sciences** within the context of CCE with a focus on the notion of eco-anxiety.
- Crafting **positive narratives** for climate action.
- Navigating the intersections of **global citizenship and CCE** through intercultural dialogue and workspace.
- Defining quality CCE and exploring **effective evaluation methods through** discussions and debates.
- Engaging in **strategic planning workshops** at the conclusion of various workshops and discussions held during the seminar.

It is important to highlight that ECOSF is developing a Climate Change Education module for Science Teachers with funding support of InterAcademy Partnership on Science Education Program (IAP SEP) and piloted this module in collaboration with UNESCO. This event aligns well with this ECOSF's initiative of promoting capacity development of science teachers in Pakistan and other ECO Member Countries.



**ECOSF President Joins the Launch Ceremony of Pakistan Global Institute**

President of ECO Science Foundation, Prof. Seyed Komail Tayebi graced the inauguration ceremony of the Pakistan Global Institute (PGI) held on September 1, 2023 in Islamabad. Distinguished guests in attendance included Prof. Mukhtar Ahmad, Chairman of the Higher Education Commission; Ambassador Park Ki Jun of the Republic of Korea, serving as the Guest of Honour; and Prof. Dr. G. Raza Bhatti, Vice Chancellor of Shaikh Ayaz University, Shikarpur.



The ceremony commenced with a warm welcome address by Mr. Kim Kyoung Eun, the Vice Chancellor of PGI who expressed gratitude for the collaborative spirit behind PGI, emphasizing its vital role in fostering global educational ties between Pakistan and South Korea. Prof. Mukhtar Ahmad, the Chief Guest, delivered an inspirational speech highlighting the transformative power of education and lauding the collaborative efforts between Pakistan and South Korea.



The event gained further distinction with the presence of Guest of Honour, Ambassador Park Ki Jun, who emphasized the growing importance of bilateral ties between the Republic of Korea and Pakistan particularly in education and human resource development.



Notably, President ECOSF Prof. Tayebi added a regional perspective to the ceremony. His presence underscored the broader impact and potential outreach of PGI in promoting educational excellence. During the event's consultations, Prof. Tayebi lauded the visionary leadership of PGI expressing confidence in the positive impact the institute would have on both Pakistan and South Korea's educational landscapes. Prof. Dr. G. Raza Bhatti echoed these sentiments, highlighting the significance of such initiatives for regional development.

The Pakistan Global Institute is the first-ever Korean Institute in Pakistan for advancing quality higher education and promoting critical human resources in pivotal fields such as science, technology, and business. The institute's faculty, exclusively composed of South Korean experts, brings a wealth of knowledge to students, and its state-of-the-art infrastructure further enriches the academic experience.

The inauguration ceremony concluded on a note of optimism, symbolizing a new chapter in international collaboration and academic advancement. As Pakistan Global Institute takes its place on the educational stage, the collaboration between these nations promises a brighter future for students and scholars alike, transcending borders and fostering a rich exchange of knowledge and ideas.

**ECOSF and UISMS jointly hosted a Lecture on Popularising Mathematics and Science by Prof. Siamak Noorbaloochi**

**September 26, 2023** - As part of the Lecture Series on Popularizing Mathematics and Science, jointly hosted by the ECO Science Foundation (ECOSF) and the Union of Iranian Societies of Mathematical Sciences (UISMS), a webinar entitled "Bayesian Irrelevance of Sampling Design" was organized and featured esteemed speaker Prof. Siamak Noorbaloochi. The session was moderated by Mr. Khalil Raza, Programme Manager at ECOSF.

Prof. Siamak Noorbaloochi, a distinguished figure in the field of Statistics, has held academic positions at Shahid Chamran University, Ahvaz, Iran, and Shahid Beheshti University, Tehran, Iran. Currently, he serves as a Professor of Statistics at the Medical School, University of Minnesota. Beyond academia, Prof. Noorbaloochi is a dedicated Statistician and investigator associated with the Center of Care Delivery and Outcomes Research.

The webinar delved into the Bayesian perspective, challenging the traditional notion of random selection of sampling units and the use of diverse designs. Prof. Siamak Noorbaloochi navigated through the current Bayesian framework for making inferences about finite populations, introducing an alternative Bayesian approach. This innovative methodology incorporates the sampling design as an integral aspect of the Bayesian paradigm, shedding light on the Bayesian irrelevance of conventional sampling practices.

Following the engaging presentation, attendees had the opportunity to participate in a lively question and answer session. Queries ranged from the practical implications of the proposed Bayesian approach to its emerging impact of advance and supercomputing



ECO Science Foundation (ECOSF) and Union of Iranian Societies of Mathematical Sciences (UIMS) cordially invite you to participate in Lecture Series on Popularising Mathematics and Science.



## On the Bayesian Irrelevance of Sampling Design

**Speaker: Prof. Siamak Noorbaloochi**



**September 26, 2023**

**04:30 PM (GMT+5) Pakistan Time**  
**03:00 PM (GMT+3:30) Iran Time**

**Zoom ID: 850 6487 4925**  
**Password: 693869**  
**Zoom Link: <http://tinyurl.com/5s22udy5>**



**Prof. Siamak Noorbaloochi**

on the field of statistics, and its potential applications in diverse research domains. The recorded webinar is available at <https://www.youtube.com/watch?v=0mC533OhHrs>

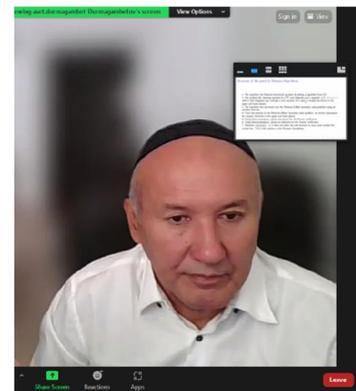
The webinar not only contributed to the ongoing dialogue on statistical and scientific concepts but also underscored the collaborative efforts needed to bring such illuminating discussions to a broader audience. These initiatives play a crucial role in fostering a deeper understanding of complex subjects and promoting scientific curiosity across the ECO Member Countries. The series continues to serve as a valuable platform for knowledge exchange and exploration within the realm of mathematics and science.

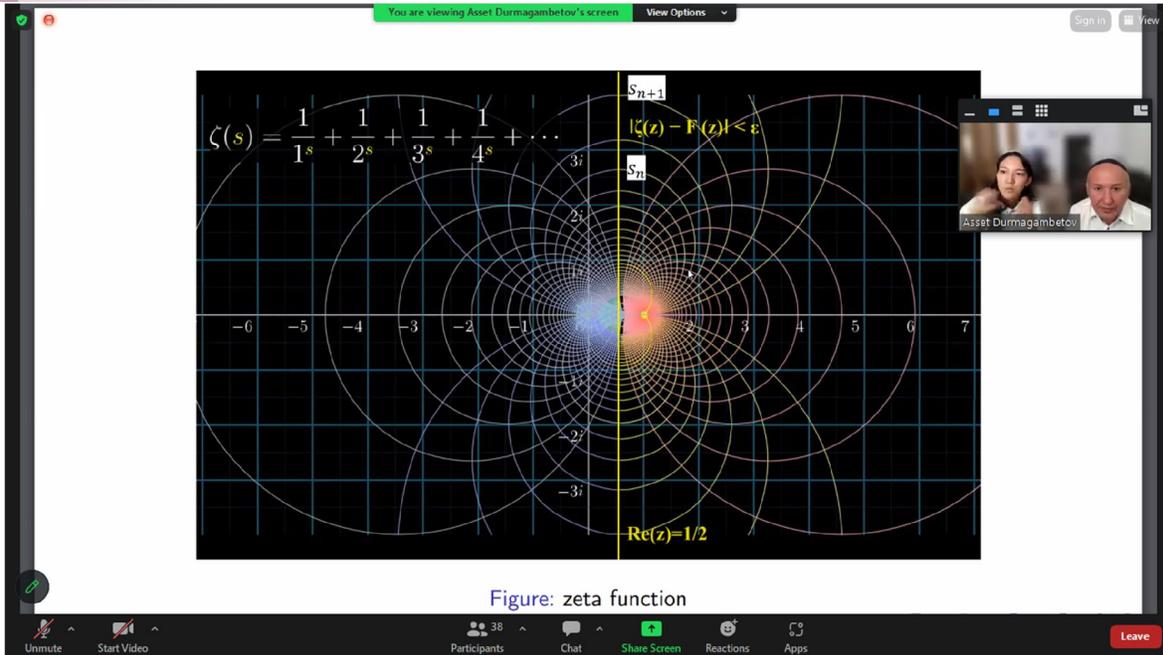
### A Webinar on Scientific Breakthrough Research on Big Data Organized by ECO and Supported by ECOSF

A Webinar on Scientific Breakthrough Research on Big Data was arranged by ECO Secretariat on September 26, 2023. The Webinar was supported by the ECOSF. The Speaker of the Webinar was Dr. Asset Durmagambetov. Dr. Durmagambetov is a senior Professor, Mathematician and Researcher. Currently, he is Scientific Director, Center for Scientific, Technical and Financial Research Ltd, Nur-Sultan HUB, Kazakhstan. Dr. Durmagambetov possesses rich experience in this field.

The Webinar focused on Advanced Big Data Processing Algorithms for Data Centers and Fiber Optic Lines. Objective of the Webinar was to sensitize the industries for applications of Advanced Big Data Processing Algorithms which includes:

- Digital Modelling for Advanced Railroad Construction and Maintenance;
- Seismic Exploration, Controlling for Oil & Gas Upstream and Downstream;
- Heat & Mass Transfer Control in Thermonuclear, Cold Thermonuclear Fusion;
- Earthquake Predictions, Stock Market Forecast, Chemical Industry;
- Quantum Computers and Quantum Computing;
- Tomography, Diseases Early Diagnostics, Digitalization in Healthcare;
- Tech Processes Digitalization; Novel in Mechanical Engineering, Blade (Design) Control for Ships, Establishing and maintaining optimal Big Data opportunities across all domains of human activity





In his lecture, Prof. Durmagambetov discussed the Riemann Hypothesis and showed that the solution of this hypothesis opens the holy grail of science that allows to make revolutionary changes in science and technology. The use of Riemann hypothesis can be used in the fields of Chemistry, Health Management, Agriculture, Space Industry and other relevant fields, shared Prof. Durmagambetov.

The webinar was attended by the researchers, technologists, students and others who are working in the field of Big Data.

**ECOSF Participated in 74th Anniversary of the Founding of the People’s Republic of China**

The 74<sup>th</sup> anniversary of the Founding of the People’s Republic of China was celebrated in at Serena Hotel Islamabad on 28<sup>th</sup> September 2023, with a gathering of notable individuals from various sectors of society. On behalf of ECOSF, Dr. Ghulam Muhammad Memon, the Executive Director ECOSF participated in the event.

The event was marked by speeches from Foreign Minister Jalil Abbas Jilani and Chinese Ambassador Jiang Zaidong, emphasizing the deep-rooted friendship between Pakistan and China and their shared visions for the future. Chairman Senate Sadiq Sanjarani alongside other notables were present and reiterated to the commitment towards China Pakistan iron clad friendship.



Foreign Minister Jalil Abbas Jilani commenced the event by acknowledging China’s remarkable development and progress under the visionary leadership of the Communist Party of China. He discussed China’s transformation into a modern economic powerhouse and invoked the spirit of Mao Zedong, highlighting the visionary foundation of the People’s Republic of China. Jilani underscored the enduring friendship between Pakistan and China, referring to it as “iron-clad,” and spoke of the cultural linkages that have historically bound the two nations together. He also enumerated the successes of this friendship, prominently mentioning the China-Pakistan Economic Corridor (CPEC) as a flagship initiative of the Belt and Road Initiative (BRI).

In closing, Mr. Jilani reaffirmed Pakistan’s commitment to enhancing and deepening this friendship and working together for mutual development and progress.

Ambassador Jiang Zaidong highlighted China’s remarkable achievements in the past 74 years under the leadership of the Communist Party of China (CPC), highlighting rapid economic growth and long-term social stability as key milestones. Jiang Zaidong praised President Xi Jinping’s leadership, emphasizing historic achievements and China’s path toward modernization. He highlighted China’s contributions to the world economy, social development, and global cooperation.

**The Smart University of Medical Sciences (SMUMS) of Iran and ECO Science Foundation (ECOSF) signed Memorandum of Understanding**



The Smart University of Medical Sciences (SMUMS) of Iran and ECO Science Foundation (ECOSF) signed a Memorandum of Understanding (MoU) on September 30, 2023. The signing ceremony took place in Tehran, Iran, which was conducted by SMUMS Chancellor Prof. Arash Khojasteh and ECOSF President Prof. Seyed Komail Tayebi at the Smart University of Medical Sciences. Dr. Sayed Ahmad Ahmadi, Vice Chancellor of International Affairs of SMUMS, Dr. Babak Sabet, Vice Chancellor of Academic Affairs, Dr. Haniyeh Zehtab, Vice Chancellor of Infrastructure Affairs, and Dr. Shahriar Eslamitabar legal director of SMUMS attended the signatory ceremony.

This MoU will lead to ECOSF and SMUMS working closely, as they are both committed to an ongoing relationship to engage in collaborative and joint scientific and technological activities while leveraging respective strengths to undertake research and exchange programmes among the 10 ECO member countries, viz., Afghanistan, Azerbaijan, Iran, Kazakhstan, Kyrgyzstan, Pakistan, Tajikistan, Turkey, Turkmenistan and Uzbekistan.