



ECOSF NEWSLETTER



ECOSF Collaborated with COMSATS to Co-Host an International Seminar on Renewable & Clean Energy Technologies

On 30 September 2025, ECOSF played a key role in an international seminar “The Future of Energy: Innovations in Renewable and Clean Energy Technologies” held at the COMSATS University campus in Islamabad, organized by the COMSATS Secretariat in partnership with ECOSF and other institutional collaborators. The event brought together a substantial gathering of scholars, energy experts, faculty, students, and diplomatic representatives.



The seminar was opened with remarks by Ambassador Dr. Mohammad Nafees Zakaria, Executive Director of COMSATS, who underscored that “energy security is a cornerstone of sustainable development” and called the timing of the event both strategic and urgent. He also highlighted COMSATS’ initiatives in promoting indigenous clean energy innovations, particularly the development of electric vehicle (EV) technologies. Dr. Zakaria went on to encourage collaboration between academic, industrial, and policy stakeholders to accelerate the adoption of renewable energy solutions across member countries.

H.E. Sardar Awais Ahmed Khan Leghari, the Federal Minister for Energy and Chief Guest in his address, he described the energy transition as an imperative rather than an option, noting Pakistan’s vulnerability to climate impacts despite its low contribution to global emissions. He reaffirmed Pakistan’s ambition to generate 60% of its electricity from clean sources by 2030, emphasized the necessity of clean energy transition, and addressed sector reforms, digitization, and management of circular debt.



President ECOSF, Prof. Seyed Komail Tayebi delivered his remarks stressing the importance of empowering local institutions, researchers, and scholars across the ECO region—not merely as consumers of technology but as innovators and developers. He urged that regional mechanisms and collaborative structures should be strengthened to enable homegrown contributions to renewable and clean energy advancements.

Engr. Khalil Raza, ECOSF’s Program Manager for Energy & Climate, presented a technical session titled “Electric Mobility Market Landscape in the ECO Region: Trends and Opportunities in Clean Transport.” He mapped out current trends, identified bottlenecks, and suggested potential pathways for cross-border collaboration and policy support across ECO member states.

The seminar featured four technical sessions with 15 experts from countries including China, Iran, Morocco, Sri Lanka, Syria, Türkiye, the USA, and Pakistan, covering topics such as solar, wind, biofuels, energy storage, smart grids, and AI-integrated energy systems.

ECOSF President Attends Launch of COMSATS International Training Program on Cyber Security

Commission on Science and Technology for Sustainable Development in the South (COMSATS), in collaboration with its technology partner, KhasTech Solutions (KTS), has launched Certified Information Systems Security Professional (CISSP) Certification Bootcamp, a comprehensive online training program, particularly for young professionals, aimed at creating a generation of Cyber Security Experts, on September 25, 2025.



The CISSP 8-week course is the first in a series of skill-development training courses offered through the COMSATS program. Over 140 cyber security professionals including IT professionals and Government Officers, from 16 countries viz. Ghana, Iran, Jamaica, Jordan, Kazakhstan, Morocco, Nigeria, Pakistan, Palestine, Somalia, Sudan, Syria, Tanzania, Türkiye, Turkmenistan, and Yemen, have been enrolled for the training.

The inaugural ceremony was attended by Ambassadors and diplomats of COMSATS member states in Islamabad. President ECOSF Prof. Seyed Komail Tayebi also attended the ceremony. The representatives of COMSATS Focal Points and Centres of Excellence, from across Asia, Africa, Middle East, and Latin America as also Partner organizations’ Representatives and registered trainees participated online.



Executive Director COMSATS, Ambassador Dr. Mohammad Nafees Zakaria, highlighted the importance of the course. He stated that cybersecurity is a critical domain for economic stability and national security as the digital transactions, governance and communication increasingly rely on secure platforms. Amb. Zakaria asserted that building expertise in this field will not only create career opportunities but also safeguard our collective digital future. He expressed gratitude to COMSATS' Focal Points, Centres of Excellence, and diplomats for supporting this initiative. He appreciated COMSATS' meaningful collaboration with the KhasTech Solutions.

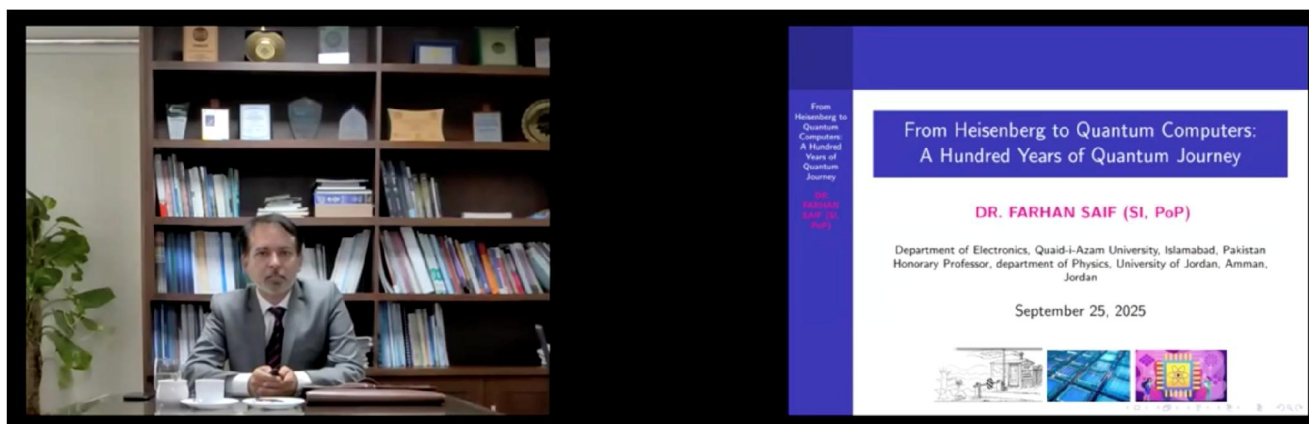
Speaking on the occasion, CEO KhasTech Solutions, Dr. Ashraf Masood, shared that training covered key domains from Security Architecture to Risk Management, preparing participants for the globally recognized ISC2 certification. Dr. Masood expressed satisfaction that all trainers conducting the sessions are themselves ISC2-certified professionals, ensuring the highest standard of instruction and mentorship.

The Ambassadors lauded COMSATS for launching a high-impact capacity-building program aiming to enhance technical competencies and employment prospects across the member countries, in particular, and developing countries, in general. During his participation, President ECOSF congratulated Executive Director COMSATS, Ambassador Dr. Mohammad Nafees Zakaria, on the successful launch of the CISSP 8-week course in cyber security, which enhances the knowledge and skills of participants from COMSATS member states.

The training courses lined up covered Cybersecurity, Occupational Safety, Project Management, Risk & Information Systems Control, and Environmental Management Systems.

ECOSF in collaboration with IPKI Host Webinar on “From Heisenberg to Quantum Computers – A Century of Quantum Progress” as part of its monthly Science Chronicles Webinar Series

On 25 September 2025, ECO Science Foundation in collaboration with the Imran Pervez Khan Institute (IPKI), hosted a webinar under its Science Chronicles series entitled “**From Heisenberg to Quantum Computers – A Century of Quantum Progress.**” The distinguished speaker, Prof. Dr. Farhan Saif (*Sitara-i-Imtiaz, Pride of Performance, Abdus Salam Prize in Physics*), delivered an impactful lecture tracing the evolution of quantum mechanics from its foundations to modern quantum technologies.



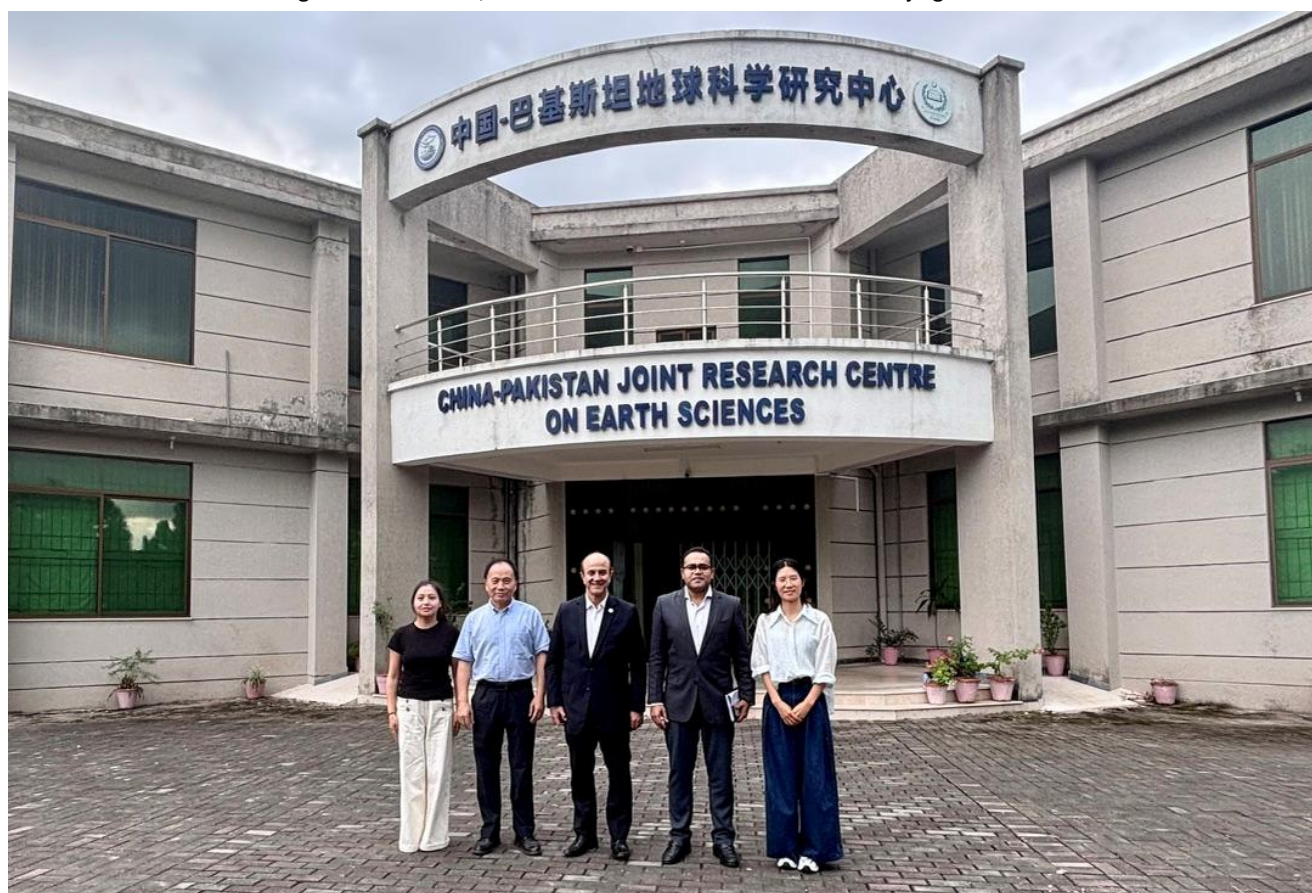
Prof. Saif explored the trajectory of quantum thought—from ancient ideas about light and matter, through Planck’s quantization, Einstein’s photoelectric effect, Heisenberg’s uncertainty principle, and Schrödinger’s wave mechanics—to the contemporary age of quantum computers. He discussed how these breakthroughs laid the groundwork for transformative applications such as solar

photovoltaics and emerging quantum computing architectures. The lecture also delved into wave-particle duality, unitary operators, and the mathematical formalism that underpins qubits and quantum algorithms.

Prof. Saif also emphasized the growing importance of quantum technologies across industries and urged young scientists—especially from developing economies like Pakistan—to engage deeply in this frontier field. He called for investments in quantum infrastructure, updated curricula, and capacity-building programs to bridge gaps in knowledge and research capability. He also noted the challenge of integrating classical computing systems with quantum processors, pointing out that quantum algorithms require new modes of thinking and mathematical tools. The webinar ended with a Q&A session and closing remarks from Prof. Seyed Komail Tayebi, President ECOSF, who thanked Dr. Saif for his contribution.

ECOSF President Meets CPJRC Leadership to Prep for 2nd Climate & Disaster Conference

On 1 September 2025, Prof. Seyed Komail Tayebi, President ECOSF visited the China Pakistan Joint Research Center on Earth Sciences (CPJRC) along with Mr. Khalil Raza Program Manager ECOSF to advance preparations for the forthcoming 2nd International Conference on Climate Change & Disaster Risk, scheduled for 19–20 October 2025 in Beijing.



During the meeting, Prof. Tayebi held discussions with Prof. Hong Tianhua, Executive Director of CPJRC, and Ms. Li Wanhong, among other colleagues, to finalize the agenda, logistics and coordination mechanisms for ECOSF's dedicated session on "Leveraging Science, Technology and Innovation (STI) for Sustainable Development and Climate Resilience." The session is expected to feature experts from the ECO region, China, and beyond.

Prof. Tayebi expressed his deep appreciation to Prof. Hong for CPJRC's continued partnership and support in convening the conference, while Prof. Hong praised ECOSF's role in catalyzing regional cooperation on climate and disaster research. The meeting underscored the mutual commitment of ECOSF and CPJRC to strengthen scientific, institutional, and policy linkages across the region in pursuit of climate resilience and sustainable development.

ECOSF Participates in COMSTECH–Azerbaijan Workshop on Nature-Based Medicinal & Cosmetic Products

On 2nd September 2025, the OIC Standing Committee on Scientific and Technological Cooperation (COMSTECH), in collaboration with the Ministry of Science and Education of the Republic of Azerbaijan, held the COMSTECH–Azerbaijan International Workshop on Nature-Based Medicinal and Cosmetic Products at the COMSTECH Secretariat in Islamabad. On behalf of ECOSF, President Prof. Seyed Komail Tayebi participated in the event.

The event brought together leading scientists, researchers, and young scholars from Pakistan and Azerbaijan to exchange knowledge, explore opportunities for joint research, and build capacity in the fields of medicinal plants, phytochemistry, and natural product sciences.



In his welcome address, Coordinator General of COMSTECH Muhammad Iqbal Choudhary underlined the significance of natural medicine, noting that the fusion of traditional knowledge with modern science is opening new avenues for drug discovery, nutraceuticals, and cosmetics. He stressed that the workshop would help expand research collaboration and further strengthen the historic ties between Pakistan and Azerbaijan within the OIC framework.

Addressing the inaugural session, Ambassador of Azerbaijan to Pakistan Khazar Farhadov emphasized that relations between Azerbaijan and Pakistan are well developed both bilaterally and through the OIC. The Ambassador highlighted Azerbaijan's rich history of natural medicine and reaffirmed his country's interest in deepening cooperation with OIC–COMSTECH and Pakistan in natural medicine and related sciences.

Ms. Sayyara Ibadullayeva, Director General of the Institute of Botany of Azerbaijan, also addressed the inaugural session and later delivered presentations on “Current Problems and Challenges of Studying Useful Plants of Azerbaijan Flora” and “Closing Remarks.” At a side meeting, President ECOSF briefed Ms Ibadullayeva on the activities of ECOSF and bilateral collaboration with Azerbaijani institutions.

Courtesy of AZERTAC

President ECOSF Attends Celebration of the 34th Anniversary of the Independence of the Republic of Uzbekistan in Islamabad

At a grand reception celebrating the *34th Anniversary of the Independence of the Republic of Uzbekistan* held in Islamabad on the 1st September 2025, H.E. Mr. Alisher Tukhtaev, the Ambassador of Uzbekistan to Pakistan, highlighted the strong and growing ties between the two brotherly nations: Pakistan and Uzbekistan. The event reflected rich Uzbek cultural vibes and was attended by diplomats, government officials, business leaders, and representatives of international organizations, including the President of ECOSF, who attended the event on behalf of ECOSF.



In his address, Ambassador Tukhtaev said that for every Uzbek, Independence Day is more than just a celebration — it symbolizes the fulfillment of a centuries-old dream to live freely under their own flag. He emphasized that under the leadership of President Shavkat Mirziyoyev, Uzbekistan has entered a “New Era” — the *New Uzbekistan* — representing revival, modernization, and progress inspired by the nation’s historical renaissances.

Highlighting Uzbekistan’s impressive economic growth, the envoy noted that despite global challenges, the country’s economy continues to grow by over 6% annually. Over the past eight years, the GDP has doubled to \$115 billion, expected to reach \$130 billion this year. Exports have grown to \$26 billion, with gold and foreign exchange reserves exceeding \$48 billion. He shared that Uzbekistan has attracted \$130 billion in foreign investment, with \$35 billion this year alone creating nearly 9,000 new enterprises. Additionally, 79 major projects worth \$4 billion were launched as part of Independence Day celebrations.

The Ambassador also underlined the growth of small and medium enterprises, which now employ 10 million people, and mentioned that 5 million new jobs were created in just eight months, with 700,000 citizens returning home from abroad. Tourism is another thriving sector, with 10 million visitors bringing in \$3 billion last year, and plans to increase investment and green energy share to 54% by 2030.

On bilateral relations, Ambassador Tukhtaev reaffirmed that Uzbekistan and Pakistan share centuries-old bonds of history, culture, and spirituality, which are now evolving into a strategic partnership based on trust, respect, and brotherhood. The official visit of Prime Minister Shehbaz Sharif to Uzbekistan earlier this year and the signing of the Joint Declaration and Protocol on the High Council of Strategic Partnership marked a new chapter in bilateral cooperation.

He highlighted key collaborative initiatives such as the Trans-Afghan Railway Project, aimed at linking Uzbekistan, Afghanistan, and Pakistan with Central and South Asia to boost regional trade. Bilateral trade has reached \$320 million in the first seven months of 2024 — a 126% increase — and is projected to rise to \$2 billion soon. Uzbekistan has become Pakistan’s largest trading partner in Central Asia.

Concluding his speech, Ambassador Tukhtaev extended heartfelt gratitude to the Government and people of Pakistan, the diplomatic community, business sector, academics, cultural figures, media, and all friends of Uzbekistan for their support. On behalf of the people and leadership of Uzbekistan, he wished the brotherly people of Pakistan peace, prosperity, and continued success.

Courtesy of Associated Press of Pakistan (APP)

Upcoming Events posted on ECOSF website and Facebook page

The call for Registration: 3rd International Muallem Prize

ECOSF is pleased to announce the Call for Participation/Registration for the 3rd International “Muallem Prize”. The purpose of the award is to honor teachers and elevate their social status. The prize may be awarded to one or more teachers jointly. Eligible participants include teachers and educators with at least five years of prior experience who intend to continue their educational work for at least the next three years. Candidates must be directly engaged in educational and developmental activities for individuals aged 18 or younger in settings such as schools, mosques, training centers, clubs, charitable organizations, or other relevant institutions.

Nomination Process:

- Teachers may nominate themselves.
- Nominations may also be submitted by others (e.g., administrators of educational or training centers, colleagues, adults, parents, students, etc.) to recognize impactful teachers.

<https://ecosf.org/3rd-muallem-prize/>

The 3rd International Muallem Prize

Deadline : October 21, 2025 **End of Judging:** December 21, 2025

recognizing teachers, instructors, and educators with outstanding achievements in the field of education.

Candidates will be evaluated based on the following criteria: individual and professional competence, problem-solving, innovation in the field of education, impact on the lives and future of students, constructive engagement with the local community in the process of student growth and learning, and having an influential and exemplary social presence.

The closing ceremony and announcement of the winners will take place in January 2026, during the celebration of the Mubashir (the anniversary of the Prophet Muhammad's (PBUH)).

Registration and more info; visit: muallemprize.ir

Logos: ECOSF, UNESCO, Ministry of Education, and others.