



4th iiScience Int'l Conference 2024

April 16-18, 2024

Recent Advances in Photonics & Physical Sciences

URL: <https://iiScience-conference.org>

The 4th iiScience Int'l Conference will be co-organized at Lahore College Women University (LCWU) in collaboration with CSSP, Punjab University, Lahore. The international interdisciplinary event, iiScience brings together experimentalists, theorists, mathematicians, info-scientists and educationists as well as life-scientists and practitioners on a common platform to inspire and share state-of-the-art research and developments. It covers high-tech Photonic Materials and Devices from the perspective of Physical, Chemical and Biological Sciences and resulting applications in the area of information science, artificial intelligence, energy and impact on human lives and environment. Up-to 6-pages original contributed papers, 3-page summary poster and PhD Forum papers, 2-page extended abstracts/summaries are solicited. A poster paper(s) competition will also be held among the graduate students for the 1st, 2nd and 3rd prizes, (\$200, \$100 & \$50), respectively.

Scope & History: The vision & theme of 4th iiScience International Conference encompasses interdisciplinary & inclusive program in Optical & Physical Sciences and various intertwined branches of formal disciplines. The 1st event of the series was held at Women University Multan on Mar 02-04, 2020 and the 2nd & 3rd events were hosted by GC Women University, Faisalabad (GCWUF) on Mar 29-30, 2021 and Mar 07-09, 2023 as a hybrid; hosts and locals were in physical attendance, while national & international participation was via online. The 2022 event was skipped to 2023 due to Covid-19 severity effects.

The Int'l Conference with *SPIE's technical sponsorship* is gaining its recognition for providing a forum for academic & industry scientists, engineers and practitioners for sharing research and development experiences. Focusing on **Light and Energy** as main thematic areas, various branches of physical sciences span and complement Research & Development worldwide and impact life-sciences. The conference encompasses variety of materials including semiconductors for photonics, solar energy-harvesting and energy storage; fundamental light-matter interactions and applications in chemical science & engineering pertaining to a variety of phenomena. Those may include experimental findings along with their applications in emerging technologies to address the needs of humanity at local and global levels such as application of UV-light sources in disinfection to inhibit the viral outgrowth and harmful microbes. UV-sources augment or replace the chemical disinfections conducive to the sensitive environments. The scope also extends to include the environments and agricultural applications. Accepted and presented full-papers, posters-summaries and invited papers summaries will be published in SPIE's Proceedings. **High-quality substantially extended full papers (journal-ready) will be recommended for publication in SPIE Journals appropriate and relevant to the subject & topics. SPIE Journals include:** Adv Photonics; Journals of Biomedical Optics, App Remote Sensing, Nanophotonics, Micro/ Nano-lithography, Electronic Imaging, as well as Optics Communications and Optical Engineering J; with Impact Factors ranging from 13.8 to 1.08.

Host Organizers: Department of Physics, Lahore College Women University (LCWU), Lahore, Punjab, Pakistan

Past Organizers: Department of Chemistry, GC Women University, Faisalabad, Punjab, Pakistan

Future Organizers: University Industry Linkage Section, COMSAT University Islamabad, Lahore Campus, Pakistan

Int'l Co-Organizers: Center for Optoelectronics & Optical Communications, University of North Carolina Charlotte, NC, USA

Organizing Committees:

Patron-in-Chief:

Prof. Dr. Shagufta Naz, Vice-Chancellor, LCWU, Lahore, Punjab, Pakistan

Past Patron: Prof. Dr. Robina Farooq (TI), (Former VC-GCWUF), Head Univ Industry Linkage Section, COMSATS Lahore, PK

International Organizing Committee:

- Prof. Dr. M. Yasin Akhtar Raja, UNC Charlotte, USA (General Chair)
- Dr. S. Ali Haider, SUNY Fredonia, USA (TPC Int'l-Chair)
- Dr. Hassina Tabassum, Materials Scientist, Toyota America, NY, USA (Publicity Int'l-Chair)
- Prof. Dr. Zafar Taqvi, Fellow ISA, LSM-IEEE, Research Fellow, Univ of Houston at Clear Lake, TX, USA (Coordinator Symposiums, Workshops & Invited Speakers), ztaqvi (at) gmail.com

National Organizing Committee

- Prof. Dr. Zohra Nazir Kayani, Chairperson Physics, LCWU (Conf. Chair)
- Prof. Dr. Saleem Farooq Shaukat, COMSATS Vehari, Pakistan (Conf. Co-Chair)
- Prof. Dr. Saira Riaz, Director CSSP, Univ of the Punjab (TPC Chair)
- Dr. Zeba Israr, Assoc Prof, Dept of Physics, LCWU (TPC)
- Dr. Sara Hussain, Chemistry Dept., COMSATS, Lahore (TPC)
- Dr. Farhat Jubeen, Chemistry Dept, GCWUF, Faisalabad (TPC)

National Publicity Committee

- Prof. Dr. Shahzad Naseem, Fmr. Dir CSSP, Prof Emirates, Punjab Univ, Nat'l Distinguished Professor
- Dr. Shafaq Arif, Assistant Professor, Department of Physics, LCWU

Local Host Committee

- Dr. Aneeqa Sabah, Tunred Associate Professor, Department of Physics, LCWU
- Dr. Talat Zeeshan, Assistant Professor, Department of Physics, LCWU
- Dr. Salma Waseem, Assistant Professor, Department of Physics, LCWU
- Dr. Madeeha Riaz, Assistant Professor, Department of Physics, LCWU
- Dr. Hina Nazli, Assistant Professor, Department of Physics, LCWU

Paper Submission: Papers Submissions and Review process to be handled through **EDAS™** and

- i. Final accepted and presented papers will be directly passed on to SPIE's Proceedings Publication office.
- ii. Conference Proceedings will be published by SPIE with a special discounted rate requested by General Chair.
- iii. High-quality substantially extended version of proceedings' papers will be recommended for field-relevant Journals.

Thematic Areas: *The following sample/example topics and other Light & Energy related papers are also welcome.*

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| a. Optical Materials & Devices | g. Quantum Optics and Biomedical Sensing |
| b. Nanoscience and Chemical Processing | h. Light and Renewable Energy |
| c. Photonic Devices & Chemical Engg. in Fabrication | i. Battery-Technology and Energy Storage |
| d. Photonic Applications in Environmental Chemistry | j. Emerging Trends and Technologies based on EM-Radiations |
| e. Biophotonics and Biomedical Applications | |
| f. Photonics in Agriculture and Food Industry | k. <i>And Relevant Topics & Workshops/Symposia</i> |

Workshops: *Web-based Simulations and Remote Access Visualization Tools for Science & Engineering Programs*

Dr. Ahmed S Khan, Prof Salah Qazi and Dr. Atilla Ozgur Cakmak (Chicago, New York and Grand Valley Univ, USA).

e-HealthCare Symposiums: Prof M. Aslam, Fmr. Rector Shifa Medical Univ, Islamabad & Engr. Shaftab Ahmed, Fmr. Assoc Prof Bahria Univ, Islamabad Pakistan & Adjunct Faculty ECE UNC Charlotte, US and Dr. Robert Splinter, CTO Splinter Consultants, Amsterdam, The Netherlands; Dr. M. Ilyas Khan, Med Specialist Doha, Qatar.

Higher Education Forum: *Emerging Technologies, Skills & Entrepreneurial Themes in Higher Edu — Relevant to Pakistan*

Papers & Posters Submission Dates: *Details available on the Conference Website*

Registration: *Details available on the Conference Website*



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