

PROF. DR. SAQIB ANJUM



Department of Physics

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(Approved HEC Ph.D. Supervisor)

ACADAMIC DEGREES	Field of Specialization
1992 Doctor of Philosophy Department of Physics, King's College, London, University of London, London WC2R 2LS, UK.	Photoelectron Spectroscopy
1988 Master of Philosophy Department of Physics, University of Karachi, Karachi, Pakistan.	Solid State
1978 Master of Science Department of Physics, University of Karachi, Karachi, Pakistan.	Electronics
1977 Bachelor of Science (Honours) Department of Physics University of Karachi, Karachi, Pakistan.	Physics

PROFESSIONAL BACKGROUND

- 1) Worked as visiting faculty member at Bahria University, Karachi Campus, Pakistan. (1996 -2004)
- 2) Worked as visiting faculty member at Iqra University, Karachi Campus, Pakistan. (1998 - 2001).
- 3) Worked as visiting faculty member at Federal Urdu University of Science and Technology, Karachi Campus, Pakistan.(2004).
- 4) Worked as Lecturer of Physics at Govt. Superior Science College, Shah Faisal Colony, Karachi affiliated with Karachi University, Karachi, Pakistan. (1981-1995).
- 5) Worked as an Assistant Professor of Physics at Govt. Superior Science College, Shah Faisal Colony, Karachi affiliated with Karachi University, Karachi, Pakistan.(1995-2005).
- 6) Worked as an Associate Professor of Physics at Govt. Superior Science College, Shah Faisal Colony, Karachi affiliated with Karachi University, Karachi, Pakistan. (2005 - October, 2006)
- 7) Worked as Associate Professor of Physics at NED University of Engineering & Technology, Karachi, Pakistan (November 01,2006 to July 03, 2009).
- 8) Worked as Co-Chairman of Department of Mathematics and Basic Sciences, NED University of Engineering & Technology, Karachi.
- 9) Working as Professor of Physics at NED University of Engineering &Technology, Karachi, Pakistan(July, 04,2009 to date).
- 10) Worked as Chairman of Department of Mathematics and Basic Sciences, NED University of Engineering & Technology, Karachi from November, 2009 to June, 30,2010 .
- 11) Working as Chairman of Department of Physics & Chemistry, NED University of Engineering & Technology, Karachi from July, 01, 2010 to date.

SEMINARS AND LECTURES

- (1) Delivered a Seminar to the Scientists & Engineers of Pakistan Council of Scientific & Industrial Research at their Karachi laboratories on " Non-destructive Studies Techniques"
- (2) Delivered a Seminar to the members of Karachi Physics Society at Govt. national College, Karachi on " Modern Trends in Microscopy".
- (3) Delivered a lecture on the "Use of Modern Teaching Aids" for college teachers of Karachi arranged by Directorate of College Education Karachi, Pakistan.
- (4) Delivered a lecture on " Laser and X-rays " at Hamdard University at Karachi Campus in workshop for college teachers of Physics.

- (5) Worked as Master Trainer and trained college teachers under the Computer Literacy Program arranged by Education Department, Govt. of Sindh.
- (6) Worked as Resource Person in the subject orientation Workshop for Physics organized by Sindh Academy for College Teachers, Training Education Department, Government of Sindh, Pakistan.
- (7) Worked as Resource Person in the First Specialized Course in Teaching, Skills Development for Lecturers, organized by National Institute of Public Administration at Karachi, Pakistan.
- (8) Organised a seminar on “ Physics Practicals at College Level” in collaboration with Karachi Physics Society in 2005.

OTHER ACADEMIC ACTIVITIES

- Member of National Curriculum Revision Committee (NCRC) on Electronics during 16-18 April 2002 held in the Regional Office of U.G.C., Karachi.
- Member of National Curriculum Revision Committee (NCRC) on Physics during 17-19 October, 2012 and 19-21 March, 2013 at Lahore and Peshawar centres.

MEMBERSHIP OF PROFESSIONAL ORGANIZATION

- 1) Life member of Pakistan Society for Semiconductor Science and Technology.
- 2) Member of Institute of Physics, London, UK.
- 3) Member of Executive Council of Karachi Physics Society, Pakistan.
- 4) Member of Executive Council of Centre for Physics Education, Karachi, Pakistan.

RESEARCH EXPERIENCE

- Worked on a project " TELEVISION PATTERN GENERATOR" Worked under Mr. Gul Hassan Taqvi(Supervisor), as a partial requirement of M.Sc. degree in 1980 at Karachi University, Pakistan.
- Worked on a project" ELECTRICAL CONDUCTION IN INDIGENEOUS ORES" Worked under Prof. Dr. Riaz Hashmi(Supervisor) during M.Phil. in 1988 at Karachi University, Pakistan.
- Worked on a project "DEVELOPMENT OF TWO NEW TECHNIQUES OF PHOTOELECTRON SPECTROSCOPY" Worked under Dr. A.W.Potts (Supervisor) during Ph.D. in 1989 - 1992 at King's College London, London University, UK.

PRESENT RESEARCH INTERESTS

- Material Science
- Electrical Properties of Indigenous ores.

PUBLICATIONS

➤ PUBLICATIONS IN JOURNALS

- (1) A.W. Potts, S.Anjum, R.E Burge, A D Tournas, and A Yacoot,: A Scanning Photoemission Microscope. Journal of Electron Spectroscopy and Related Phenomena, 61, 27 - 41.(1992).
- (2) A.W. Potts, S. Anjum, J.Benson, and I. Novak, : Matrix Isolation In Photoelectron Spectroscopy. Chemical Physics 161, 281 - 288.(1992) .
- (3) A.W. Potts, S. Anjum, J.Benson, and I. Novak,: He I Spectra of Condensed Organic Halides. Journal of Electron Spectroscopy and Related Phenomena 61, 43 - 54.(1992).
- (4) S. Anjum. A.W. Potts:UV Photoelectron Spectroscopy of Zinc Surface Using XUV Photoelectron Microscope. Karachi University Journal of Science 25(1), 25-28.(1997)
- (5) S. Anjum. A.W. Potts: UV Photoelectron Images of Cadmium Surface Using Fresnel Zone Plate. Karachi University Journal of Science 25(2) 67-72(1997).
- (6) S.Anjum. : Scanning Photoelectron Microscopy with Ultraviolet Radiation. Karachi University Journal of Science 25(2) 73-82 (1997)
- (7) Saqib Anjum: Non Destructive Studies of Surfaces of Metals and Semiconductors. NED University of Journal of Research, Vol. V No.2, 23-27(2008).

➤ PUBLICATIONS IN PEER REVIEWED CONFERENCES

- (1) S.Anjum, , R.E Burge, A.W.Potts,. and A Yacoot: Development of an XUV Photoelectron Microscope, X-Ray Microscopy III, (1990) 241 - 243, Springer Verlag. The Paper Was presented at Third International Conference on X-Ray Microscopy, London England, September 3 - 7 1990.
- (2) S.Anjum, J. Lee, A.D.Tournas,. and A.W.Potts,:UV Photoelectron Microscopy Using Fresnel Zone Plate. Institute of Physics Conference Serial Number 138: Section 4, Paper presented at the Electron Microscopy and Analysis Conference EMAG93, Liverpool England, 1993 IOP Publishing Limited, 193 - 196.(1993)
- (3) Maria Arshad, Engineer Syed Humair Siddique, Saqib Anjum, Ashraf Ali Meo "Synthesis of iron oxide nanoparticles by Sol-Gel method and their characterization". "International Conference on Advanced Materials and Process Engineering". 14th to 15th December, 2015 at NED University of Engineering and Technology, Karachi.
- (4) Sidra Jamil Ahmed, Syed Humair Siddqui, Saqib Anjum, Ashraf Ali Meo, "Synthesis And Characterization Of Anatase Titanium Dioxide Nanoparticles By The Sol-Gel Method", "International Conference on Advanced Materials and Process Engineering". 14th to 15th December, 2015 at NED University of Engineering and Technology, Karachi.
- (5) Ayesha Ikram, Engineer Syed Humair Siddique, Saqib Anjum, Ashraf Ali Meo, "Synthesis and Characterization Of Copper Nanoparticles" "International Conference on Advanced Materials and Process Engineering". 14th to 15th December, 2015 at NED University of Engineering and Technology, Karachi.

