CURRICULUM-VITAE

MOHAMMAD MOBIN (PhD, FRSC)
Vice Chancellor
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Dr. Mohammad Mobin (FRSC), Vice Chancellor, Cluster University of Srinagar is an internationally acclaimed researcher in the field of Materials and Corrosion. He obtained his PhD in Chemistry in 1988 from Aligarh Muslim University and subsequently joined as Lecturer and later promoted to Professor in 2005. In the year 2001, Dr. Mobin joined foreign assignment at Corrosion Department, Seawater Desalination Research Institute, Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia. At SWCC, during the period 2001 to 2006, he worked as Corrosion Researcher and carried out industrial, academic and Root Cause Failure Analysis/Trouble Shooting projects and pilot plant studies with reference to corrosion problems in world's largest desalination and power plants and water transmission/storage systems. Prof. Mobin has supervised 17 PhD, 2 M.Phil. and 12 M.Sc. Tech students, authored 191 research papers and contributed 06 books (Springer, CRC, Wiley) and 40 Book chapters. Prof. Mobin has also completed 40 research projects (04 industrial,08 academic and 28 root cause failure analysis/trouble shooting projects) including three projects under international collaboration (AB Alvenius Industrier, Sweden, EBARA Research, Japan, Rezayat Kemica, KSA). He has also attended 40 corrosion conferences/workshops in India and abroad. He has also delivered keynote talk/invited talks/technical lectures on corrosion in India and abroad and evaluated a large number of PhD thesis and research projects from Indian and foreign academic institutions. Dr. Mobin was awarded the NIIS (NACE International India Section) corrosion awareness award 2007, NIGIS Meritorious Contribution Award 2022 (AMPP India chapter) and NCCI (National Corrosion Council of India) Meritorious Award 2023 for his meritorious contribution in the field of

Corrosion Science & Technology. He has been listed in top 0.05% of all scholars worldwide by ScholarGPS, a California based company, in its inaugural list of highly ranked Scholars. He has been ranked 4th Globally in the specialty of Carbon Steel and 25th in the field of Corrosion by ScholarGPS over the past 5 years. He has also figured in World Top 2% Scientists by Stanford University, USA for year 2019, 2020, 2021, 2022 and 2023. He has also held various administrative positions and served as member of statutory bodies of the University.

CURRICULUM VITAE (IN BRIEF)

Name: Prof. Mohammad Mobin
Date of birth: January 01, 1962
Address for Correspondence: Vice Chancellor, Cluster University of Srinagar, Gogji Bagh, Srinagar, Jammu and Kashmir, India: Email vc@cusrinagar.edu.in
Present Position: Vice Chancellor, Cluster University of Srinagar
Position Held in India: Lecturer, AMU, September 24, 1988 to September 23, 1993; **Senior Lecturer**, AMU, September 24, 1993 to March 19, 1997; **Reader**, AMU, March 20, 1997 to March 19, 2005; **Professor**, AMU, March 20, 2005 to July 24, 2024.
Position Held Abroad: Corrosion Researcher, Department of Corrosion, Seawater Desalination Research Institute, Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia (2001 to 2006).
Awards & Honors:

(i) NCCI (National Corrosion Council of India) Meritorious Award 2023.
(ii) AMPP (Association for Materials Protection and Performance, USA) India Chapter "Meritorious Contribution in Research & Education" Award 2022.
(iii) 13th NIIS Corrosion Awareness Award 2007.
(iv) Listed in top 0.05% of all scholars worldwide by ScholarGPS, a California based company, in its inaugural list of highly ranked Scholars.
(v) Ranked 4th Globally in the specialty of Carbon Steel and 25th in the field of Corrosion by ScholarGPS over the past 5 years.
(vi) Figured in World Top 2% Scientists by Stanford University, USA for year 2019, 2020, 2021, 2022 and 2023.
(vii) Visiting Professor, King Saud University, Riyadh, KSA (2014).
(viii) Visiting Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan (June 01-30, 2024).

Keynote/Invited talks on corrosion: 12 (07 in India and 05 Abroad)
Research supervision: Ph.D.: 17; **M.Phil.:** 2; **PG**: 12; **Pursuing Ph.D.:** 5; **Post-Doctoral Research**: 04
Research Projects Undertaken: 40 (04 industrial, 08 academic, 28 root cause failure analysis/troubleshooting projects), including three projects under international collaboration (AB Alvenius Industrier, Sweden, EBARA Research, Japan, Rezayat Kemica, KSA)
Conferences/Seminars/Symposium attended: 40 (Abroad: 13; India: 27)
Ph.D. Thesis Evaluation: 3 International + Above 21 National

Membership of Scientific Societies: 07
Area of Research: Materials and Corrosion
Citation Indices (Googlescholar): **Citations:** 5600**; H-index:** 42**; *i*10-index: 117. (https://scholar.google.com/citations?user=2vV08o4AAAAJ)**
Reviewer for the Journals: More than 30
Research Publications: 191 (46 papers with Impact factor >5; 09 papers with Impact factor >10; 75 Q1 Journal)
Book Chapters: 40; **Book Edited/Authored**: 06
Leadership for Academicians Programme (LEAP) Training: Undertaken MHRD, Government of India, 3 weeks LEAP training held at IIT(BHU) Varanasi (Dec 08, 2019 - Dec 21, 2019) and at the University of Cambridge, UK (Jan 19, 2020 - Jan 25, 2020) designed for the purpose of preparing senior Faculty for future governance roles as leaders in academic institutions.
Shortlisted for the Post of Vice-Chancellor, University of Kashmir, Srinagar, J & K, April 2022.
Shortlisted for the Post of Vice-Chancellor, Jamia Millia Islamia, New Delhi, February, 2024.
Nominated by the academic council of Umm Al Qura University, Makkah, Saudi Arabia (2023) to examine and evaluate academic research papers submitted for the purpose of promotion to the status of Professor in the academic field of Chemistry.
Advisor, Union Public Service Commission (UPSC), New Delhi since 2009.
Chairperson, National Assessment & Accreditation Council (NAAC) Peer Team.
Assessor for the evaluation of 13 major research projects for funding, King Saud University, Riyadh (2022).
Administrative Positions Held: Chairman: Department of Applied Chemistry (2009, 2012-2015, 2019-2021); **Vice-Chairman**: Alumni Affairs Committee (2019-continuing); **Founder Coordinator:** University Sophisticated Instrument Facility (2011-2013); **Provost** (2006-2009); **Deputy Proctor** (2006); **Superintendent of Examination** (2010-2011); **Member-In-Charge** (AMU Press) (2009-2010).
Member of Statutory Bodies: **University Council** University of Kashmir and University of Jammu**, Executive Council AMU** (2007-2009), **Academic Council IUST Awantipora, AMU** (2007-2009, 2012-2015, 2019-2021), **AMU Court** (2007-2009, 2015) and **Board of Studies** (Civil Engineering AMU, Chemical Engineering AMU, Computer Engineering AMU, Chemistry AMU, Mathematics AMU, Cluster University, Srinagar).
Teaching Experience: 36 Years; **Research Experience**: 40 Years
Countries Visited: USA, UK, China, South Korea, Singapore, Saudi Arabia, Kazakhstan

CURRICULUM VITAE (IN DETAIL)

SCHOLASTIC RECORDS

- **Ph.D.** Chemistry (1988) from Aligarh Muslim University, Aligarh, India.

Thesis: "High Temperature Interactions of Metal Oxides and Carbides with Ionic Salts Relevant to Hot Corrosion".

- **M. Phil.** Chemistry (1984) from Aligarh Muslim University, Aligarh, India. **Dissertation**: "High Temperature Interactions of Na_2SO_4 (S) with Metal Oxides".
- **M.Sc.** Chemistry (1982) from Aligarh Muslim University, Aligarh, in ***Ist Division***.
- **B.Sc. Honors** (1980) from Aligarh Muslim University, Aligarh in ***Ist Division***.
- **Pre-University** (1977) from Aligarh Muslim University, Aligarh in ***Ist Division***.
- **High School** (1976) from U.P. Board in ***Ist Division***.

EMPLOYMENT DETAILS

- **Vice Chancellor**, Cluster University, Srinagar, J&K, July 25, 2024-continuing.
- **Professor,** Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh, India, March 20, 2005 to July 24, 2024.
- **Reader,** March 20, 1997 - March 19, 2005.
- **Senior Lecturer,** September 24, 1993 - March 19, 1997
- **Lecturer,** September 24, 1988 to September 23, 1993
- **Corrosion Researcher,** Department of Corrosion, Sea Water Desalination Research Institute, SWCC, Al-Jubail, Saudi Arabia, May 19, 2001 - August 10, 2006.

TOTAL TEACHING EXPERIENCE 36 Years
TOTAL RESEARCH EXPERIENCE 40 Years

AWARD/HONORS RECEIVED

- Received NCCI (National Corrosion Council of India) Meritorious Award 2023 for eminent contribution in the field of Corrosion Science and Engineering, monitoring, testing and evaluation of materials and basic R&D on December 07, 2023 at Jenneys Residency, Coimbatore. Award carried a shield, certificate and cash award of Rs. 10,000.
- Received AMPP (Association for Materials Protection and Performance, USA) India Chapter "Meritorious Contribution in Research & Education" Award 2022 for contributions in the field of Corrosion Science & Technology on September 20, 2022 at Ananta Hotel and Resort, Udaipur. The award carried a citation, plaque and honorarium of Rs. 51,000.
- Received 13th NIIS (NACE International India Section) Corrosion Awareness Award 2007 “Award for Excellence in Corrosion Science” in recognition of the meritorious contributions in the field of Corrosion Science & Technology on September 26, 2007 at hotel Intercontinental the Grand, Mumbai. The award, sponsored by Oil & Natural Gas Corporation Ltd., carried a citation, plaque and honorarium of Rs. 10,000.
- Figured in World Top 2% Scientists by Stanford University, USA for year 2019, 2020, 2021, 2022 and 2023.

- Listed in top 0.05% of all scholars worldwide by ScholarGPS, a California based company, in its inaugural list of highly ranked Scholars.
- Ranked 4th Globally in the specialty of Carbon Steel by ScholarGPS over the past 5 years.
- Ranked 25th Globally in the field of Corrosion by ScholarGPS over the past 5 years.

KEYNOTE TALK/INVITED TALK/TECHNICAL LECTURES/RESOURCE PERSON

- Delivered 12 keynote/invited talks on Corrosion (07 in India and 05 Abroad)

In India

1. Delivered Keynote talk on " Sustainability in Corrosion Inhibition: Current Practices and Future Prospects" 2nd International Conference in Chemistry-2025 on “Innovation in Chemical Sciences for Sustainable Development and Its Importance in Day-to-Day Life” held at the Department of Chemistry, School of Sciences, Maulana Azad National Urdu University, Hyderabad, January 30-31, 2025.
2. Delivered Keynote talk on "Environment Friendly corrosion inhibitors: Advantages, disadvantages and emerging trends" 20th National Conference on Corrosion Control, held at Coimbatore, Tamil Nadu, December 07-09, 2023.
3. Delivered Keynote talk on "Progress in research on corrosion inhibitors" AMPP India chapter, Corrosion Conference and Expo-CORCON 2022 held at Udaipur, September 19-22, 2022.
4. Acted as resource person and delivered a lecture on "Corrosion: A formidable global Challenge" organized by the UGC-Human Resource Development Centre, BHU for College and University teachers, December 21, 2020.
5. Delivered invited talk on “Future challenges in the field of corrosion", National Conference on Current Trends in Chemical and Environmental Sciences-2016, held at Institute of Technology and Management, Gorakhpur, UP, April 23, 2016.
6. Delivered invited talk on "Surfactants as corrosion inhibitors" NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2014 held at Mumbai, November 12-15, 2014.
7. Acted as resource person and delivered a lecture on "Scanning electron microscopy and Transmission electron microscopy" organized by the UGC-Human Resource Development Centre, AMU for College and University teachers from Iran, November 26, 2012.

Abroad

8. Delivered invited lecture on “Progress in research on sustainable corrosion inhibitors”,19th Asian Pacific Corrosion Control Conference, Guangzhou, China, November 16-18, 2023.

9. Delivered invited talk on “Beneficial role of surfactants in corrosion protection of metallic materials of construction’’, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, February 17, 2014.
10. Delivered invited talk on “Conducting polymers coatings-a novel approach of corrosion protection’’, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, February 18, 2014.
11. Delivered invited talks on “Future challenges in the field of corrosion: development of smart organic coatings and green corrosion inhibitors’’ and “Beneficial role of surfactants in corrosion protection of metallic materials of construction’’ Department of Corrosion, Saline Water Desalination Research Institute (SWDRI), Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia, February 24, 2014.
12. Delivered technical lecture on “Corrosion and corrosion control in power and desalination plants”, for operation, maintenance and testing & inspection engineers, Training centre, Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia, Feb 22, 2005.

SYMPOSIA CHAIRMAN

1. Symposia Chairman, "Marine corrosion and offshore" AMPP India Chapter, Corrosion Conference and Exhibition-CORCON 2024 held at Chennai, India, November 20-23, 2024.
2. Symposia Chairman, "Marine corrosion and offshore" AMPP India Chapter, Corrosion Conference and Exhibition-CORCON 2023 held at Mumbai, India, October 25-28, 2023.
3. Symposia Chairman, "Marine corrosion and offshore" AMPP India Chapter, Corrosion Conference and Exhibition-CORCON 2022 held at Udaipur, India, September 19-21, 2022.
4. Symposia Chairman, "Microbial corrosion and inhibitors" NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2019 held at Mumbai, India, September 23-26, 2019.

VISITING FACULTY

- Visiting Professor, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, February 15-23, 2014.
- Visiting Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan, June 01-June 30, 2024.

CITATION INDICES

- Citations:5600; h-index :42; i10-index:117 (https://scholar.google.com/citations?user=2vV08o4AAAAJ)

SPECIALIZATION/ EXPERTISE AVAILABLE

- Green corrosion inhibitors
- Smart anticorrosive coatings
- Hot/High temperature corrosion/High temperature coatings
- Root cause failure investigation

MEMBERSHIP OF LEARNED SOCIETIES

- Fellow, Royal Society of Chemistry (FRSC), Membership Number: 756183
- Member, American Chemical Society (ACS), Membership Number: 30383369
- Life Member, Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC), Membership Number: LMT-2008/133 (**www.isasdelhi.org)**
- Member (past), NACE International, USA, Member Number: 233473
- Member (past), International Desalination Association (IDA), USA
- Fellow (past), Society for Advancement of Electrochemical Sci. & Tech. (SAEST), India
- Honorary appointment to the RESEARCH BOARD OF ADVISORS 2000 American Biographical Institute, USA

RESEARCH PROJECTS UNDERTAKEN

Completed 40 research projects including 3 under international collaboration (Academic: 08, Industrial: 04, Root cause failure investigation: 28)

Academic Research Projects

1. Development of Smart Functional Coatings Loaded with Stimuli-Responsive Nanocontainers for Corrosion Sensing and Protection (28-1-2021-27-1-2024), funded by CSIR, New Delhi [No.22(0832)/20/EMR-II] **(Principal Investigator).**
2. Development of some anticorrosive conducting polymer-based nano-composite coatings on iron-base alloys, (27-1-2014-26-1-2017) funded by CSIR, New Delhi [No. 01(2746/13/EMR-II] **(Principal Investigator).**
3. Development of Some Conducting Polymer Coatings for Protection of Steels against Corrosion, (01-4-2008-31-3-2011) funded by UGC, New Delhi [F. No. 33-284/2007 (SR)] (**Principal Investigator).**
4. The effect of heavy metal ions on the localized corrosion behavior of steels" (March 31, 2003-March 30, 2005), funded by SWCC, K.S.A. SWCC's Technical Report No. TR- APP3804/96010 **(Principal Investigator)**.
5. Studies on the determination of maximum chloride level in product water transmitted through pipelines A, B and C, (16-8-2004-15-8-2005), funded by SWCC, K.S.A. SWCC's Technical Report No. TR- APP3804/05003 **(Co-Investigator)**.

6. Solubility of Transition Metal Oxides in Na_2SO_4 and a comparative study of Na_2SO_4- Induced Hot Corrosion Behavior of Corresponding Metal Systems (1995-96), funded by A.M.U. Aligarh **(Principal Investigator)**.
7. Development of Some High Temperature Corrosion Resistant Inorganic Coatings on Iron-Base" (1997-98), funded by A.M.U. Aligarh (**Principal Investigator**).
8. Development of Some Modified Aluminide Coatings on Iron-Base Alloys" (1998-99), funded by A.M.U. Aligarh **(Principal Investigator).**

Industrial Research Projects

9. Evaluation of Alvenius Thermoplastic Coated Pipes for High-Pressure SWRO Applications (11-3-2005-10-3-2006), funded by AB Alvenius Industrier, Sweden, SWCC's Technical Report No. EVP3804/03005 **(Principal Investigator).**
10. Performance Evaluation of Some Fusion Bonded Epoxy Coatings Under Water Transmission Line Conditions (30-6-2004-29-6-2006), Materials offered by 3M, DuPont and AKZO Nobel. SWCC's Technical Report No. EVP 3804/02002 **(Principal Investigator).**
11. Study on Corrosion Resistance of Various Stainless Steels for Seawater Pumps (06-4-2005-05-4-2007), funded by EBARA Research, Japan. SWCC's Technical Report No. EVP 3804/03001 **(Co-Investigator).**
12. Corrosion Protection Evaluation of Some Steel and Cementitious Materials Coated with Souplethane (20-9-2003-19-9-2004), funded by Rezayat Kemica Protection Coating, K.S.A. SWCC's Technical Report No. EVP 3804/03002 **(Co-Investigator).**

Root Cause Failure Analysis/Trouble Shooting Projects

13. Failure analysis of bottom plate/annular plate of product water tank # 2, Al-Shuqaiq plant" (July 2006) SWCC's Technical Report No. TSR 3804/05008 **(Principal Investigator).**
14. Acid cleaning and passivation of boiler # 8 PH-III, Al-Khobar plants" (April 2006) SWCC's Technical Report No. TSR 3804/06002 **(Principal Investigator).**
15. Investigation on the failure of boiler # 1 economizer tubes, Shuqaiq plant" (July 2005) SWCC's Technical Report No. TSR 3804 / 05007 **(Principal Investigator).**
16. Investigations on the problem of oil leakage in control oil piping of steam turbine unit # 1, Medina-yanbu plants" (June 2005) SWCC's Technical Report No. TSR 3804/05006 **(Co-Investigator).**
17. Investigations on the leakage in RWTS, Line – A at 24 KM (A/B) (March 2005) SWCC's Technical Report No. TSR 3804/05003 **(Co-Investigator).**
18. Failure analysis of bottom plate of potable water tank, Phase-II, Medina-Yanbu plants (February 2005) SWCC's Technical Report No. TSR 3804/04014 **(Principal Investigator).**

19. Investigation on the cause of corrosion of flash chamber bottom plate in Al-Khobar plants phase-III" (December 2004) SWCC's Technical Report No. TSR 3804/04016 **(Co-Investigator).**
20. Investigation on the suitability of a high pressure (HP) metal hose in Al-Jubail plants" (November 2004) SWCC's Technical Report No. TSR 3804/04015 **(Co-Investigator).**
21. Full analysis of furnace wall tube samples from Boiler # 6, ph-III, Al-Khobar plants" (March 2004) SWCC's Technical Report No. TSR 3804/04006 **(Principal Investigator).**
22. Analysis of water wall tubes unit # 6 Shoaiba phase II project" (October 2003) SWCC's Technical Report No. TSR 3804/03020 **(Co-Investigator).**
23. Investigations on the cause of leakages in the weldments of water rejection pipes-Medina-Yanbu plants" (July 2003), SWCC's Technical Report No. TSR 3804/03002 **(Co-Investigator).**
24. Root cause failure analysis of U-62 BFPT main oil pump gear from Al- Jubail plants" (March 2003), SWCC's Technical Report No. TSR 3804/02025 **(Co-Investigator).**
25. Full analysis of water wall and super heater tube samples from unit # 4 boiler, ph-1, Al-Jubail plants" (December 2003) SWCC's Technical Report No. TSR 3804/03022 **(Principal Investigator).**
26. Investigation on the corrosion failure in boiler # 3, Shoaiba plant phase-I" (December 2004) SWCC's Technical Report No. TSR 3804/04017 **(Principal Investigator).**
27. Failure analysis of turbine # 7 main oil pump driven gear-Medina-Yanbu plants" (August 2003), SWCC's Technical Report No. TSR 3804/03010 **(Principal Investigator).**
28. Investigation on the condition of Magnetite film on water wall tube, Boiler# 9, AK-Phase III" (May 2003), SWCC's Technical Report No. TSR 3804/02015 **(Principal Investigator).**
29. Determination of the cause of failure of Main Exciter of unit # 2 Generator in Al-Khobar phase-II plant" (Nov. 2002), SWCC's Technical Report No. TSR 3804/02021 **(Principal Investigator).**
30. Re-tubing and repair of high pressure feed water heater # 1 (unit # 2) - Shoaiba plant" (Nov. 2002), Report submitted to Shoaiba plant **(Principal Investigator).**
31. Failure of Al- Khobar-III Main cooling water pumps impeller" (Nov. 2002), Report submitted to Al- Khobar plant **(Principal Investigator).**
32. Investigation on the corrosion of bottom plate of main fuel oil tank # 3" (July 2002), SWCC's Technical Report No. TSR 3804/02014 **(Principal Investigator).**
33. Investigations on the corrosion of Micron cartridge filter components in SWRO plant, Al- Jubail" (June 2002), SWCC's Technical Report No. TSR 3804/02011 **(Principal Investigator).**
34. Investigation on the failure of P 100 High Pressure pump motor bearing oil cooler from SWRO, Al- Jubail plants" (February 2002), SWCC's Technical Report No. TSR 3804/20036 **(Principal Investigator).**

35. Investigation on the bolt failure, phase 2A, Desal-3B pump" (Dec. 2002), SWCC's Technical Report No. TSR 3804/02020 **(Co-Investigator).**
36. Analysis of water wall tubes (# 55&61) and super heater tubes (# 11&39) Boiler unit-3, phase 1, Al- Jubail plants" (Dec. 2002), SWCC's Technical Report No. TSR 3804/02026 **(Co-Investigator).**
37. Testing of water wall tubes for flame impingement-Shoaiba phase-II project" (Dec. 2002), SWCC's Technical Report No. TSR 3804/02022 **(Co-Investigator).**
38. Determination of the cause of failure of a broken bolt below the water drum in boiler # 4 of Madina Yanbu plant" (March 2002), SWCC's Technical Report No. TSR 3804/02002 **(Co-Investigator).**
39. Acid cleaning of oil cooler tube from brine recycle pump of Al- Jubail plants" (December 2001), SWCC's Technical Report No. TSR 3804/20040 **(Principal Investigator).**
40. Investigation on the corrosion of valve disc of High Pressure pump in SWRO plant, Al- Jubail" (September 2001), SWCC's Technical Report No. TSR 3804/20034 (Co-Investigator).

ADMINISTRATIVE EXPERIENCE

- **Vice Chancellor**, Cluster University of Srinagar, Jammu and Kashmir, India, July 25, 2024 to continuing.
- **Vice-Chairman**, Alumni Affairs Committee, Aligarh Muslim University, December 13, 2019 to July 24, 2024.
- **Chairman,** Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, March 20, 2019-January 02, 2021 **(01 Year 09 months)**.
- **Chairman,** Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, July 01, 2012 - June 30, 2015 **(03 Years)**.
- **Chairman,** Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, July 22, 2009-August 27, 2009 **(01 Month)**.
- **Founder Coordinator**, University Sophisticated Instrument Facility (USIF), Aligarh Muslim University, May 10, 2011- May 09, 2013 **(02 Years)**.
- **Superintendent of Exams**, Faculty of Engineering and Technology, Aligarh Muslim University, October 09, 2010-October 08, 2011 **(01 Year).**
- **Member-In-Charge,** AMU Press, September 08, 2009-September 07, 2010 **(01 Year)**.
- **Provost**, Ross Masood Hall (Residential Hall with approx.800 students and 80 employees), Aligarh Muslim University, December 2, 2006-June 20, 2009 **(02 Years and 06 months)**.
- **Deputy Proctor**, Aligarh Muslim University, September 13, 2006 to December 01, 2006 (**~ 03 Months)**.
- **Warden,** Allama Iqbal Hall, V.M. Hall, M.M. Hall, M.H. Hall during the period 1988-1998.

IMPORTANT ACADEMIC ACHIEVEMENTS

- Shortlisted for the Post of Vice-Chancellor, Jamia Millia Islamia, New Delhi, February, 2024.
- Shortlisted for the Post of Vice-Chancellor, University of Kashmir, Srinagar, J & K, April, 2022.
- Undertaken MHRD, Government of India, 3 weeks Leadership for Academicians Programme (LEAP) training held at IIT(BHU) Varanasi (Dec 08, 2019 - Dec 21, 2019) and at the University of Cambridge, UK (Jan 19, 2020 - Jan 25, 2020) designed for the purpose of preparing senior Faculty for future governance roles as leaders in academic institutions.
- Evaluated 13 major research project proposals from King Saud University, Riyadh, Saudi Arabia.
- Advisor, Union Public Service Commission (UPSC), New Delhi since 2009.
- Chairperson, NAAC Peer Team
- Nominated by the academic council of Umm Al Qura University, Makkah, Saudi Arabia (2023) to examine and evaluate academic research papers submitted for the purpose of promotion to the status of Professor in the academic field of Chemistry (Physical chemistry).
- Assessor for the appointment of Associate Professors and Professors at Umme Qura University, Makkah, KSA (2023).
- Introduced a new interdisciplinary, employment-oriented Post Graduate program bearing relevance to the requirements of employers from both industry and academia "M.Sc. Polymer Science and Technology" with an intake of 20 students in the department of Applied Chemistry, Faculty of Engineering & Technology from the academic session 2013-14. The course is successfully running in the department.
- Convened National workshop on “Advances in polymeric materials” at the Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, September 21-22, 2013 to further strengthen the M.Sc. Polymer Science and Technology course.
- Played a major role in conceptualising the idea of setting up of a central instrumentation facility at AMU Aligarh having the state of art analytical instruments. Contributed in the selection and prioritization of sophisticated instruments, arrangement of funds, their procurement and installation. With the funding from DST under PURSE program state of the art ultra-high resolution Transmission Electron Microscope (TEM) and Scanning Electron Microscope (SEM) with EDS facilities were acquired at the cost of approximately Re 03 Crores. Framed the ordinances and regulations governing the USIF and extended the facilities at USIF to the researchers from other organizations of the country. To ensure the smooth running of the sophisticated instruments a revolving fund was created.
- Evaluated PhD thesis on corrosion and related topics from North-West University, South Africa; IIT(ISM), Dhanbad; IIT(BHU), Varansi; Jamia Millia Islamia, New Delhi; Indian Institute of Petroleum, Dehradun; Anna University, Chennai,

Sathyabama University, Chennai; Madras University; Visvesvaraya Technological University, Karnataka; Bharathidasan University, Tiruchirappalli, Integral University, Lucknow.

- Reviewer for important international journals from American Chemical Society, Royal Society of Chemistry, Elsevier, Springer Nature, Taylor & Francis, Wiley etc.
- In the year 2019, based on my experience and expertise in the field of Materials and Corrosion and development of anticorrosion materials I was considered as one of the collaborators/strategic partners and offered the position of "Materials Science Expert" by the Desalination Technologies Research Institute (DTRI), Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia. DTRI, the research arm of SWCC (a government corporation that operates the desalination and power plants in Saudi Arabia) is the largest research centre in the world devoted to the development of desalination technologies. The offer from SWCC was in line to achieve "Vision 2030" the new vision of Saudi Arabia. The SWCC wrote a letter to the then Vice Chancellor of A.M.U. Aligarh Prof. Tariq Mansoor for my Deputation to Kingdom but same could not be materialized due to some technical reasons.

MEMBER OF STATUTORY BODIES

- **Member,** Faculty of Engineering and Technology, AMU Aligarh (March 20, 2005 to till date.
- **Member**, Executive Council, AMU Aligarh (July 13, 2007 –June 20, 2009).
- **Member,** AMU-Court, AMU Aligarh (July 13, 2007 –June 20, 2009).
- **Member**, AMU-Court, AMU Aligarh (July 27, 2014-June 30, 2015).
- **Member**, Academic Council AMU, Aligarh (July 13, 2007 –June 20, 2009).
- **Member**, Academic Council, AMU Aligarh (July 22, 2009 –August 27, 2009).
- **Member**, Academic Council, AMU Aligarh (July 01, 2012- June 30, 2015).
- **Member**, Academic Council, AMU Aligarh (March 20, 2019-January 02, 2021).
- **Member,** Board of studies, Department of Civil Engineering, AMU Aligarh (2012-14).
- **Member,** Board of studies, Department of Chemical Engineering, AMU Aligarh (September 19, 2013-September 18, 2015).
- **Member,** Board of studies, Department of Chemistry, AMU Aligarh (August 03, 2018-August 02, 2020).
- **Member,** Board of studies, Department of Mathematics, AMU Aligarh (February 18, 2021-Continuing).
- **Member,** Board of studies, Department of Computer Engineering, AMU Aligarh (August 17, 2021-Continuing).
- **Member** of committee constituted by Academic Council, AMU Aligarh to discuss and decide the issues relating to the Industrial Chemistry as an allied subject in the discipline of Chemistry for recruitment of Assistant Professor in University Polytechnic (Office Memo No. (C)/3473 dated January 12, 2021).

- **Member,** Board of studies, Cluster University, Srinagar (May 25, 2022-May 24, 2024).
- **Member** (Senior academician from outside the department), Departmental Academic Integrity Panel (DAIP), Department of Chemistry, AMU, Aligarh (September 04,2023- July 24, 2024).
- **Member**, Academic Council, Islamic University of Science & Technology, Awantipora (Aug. 02, 2024 to Aug. 01, 2026)
- **Member,** University Council, University of Kashmir, UT of Jammu & Kashmir.
- **Member,** University Council, University of Jammu, UT of Jammu & Kashmir.

REVIEWER OF JOURNALS

- (Only selected journals are listed):

Chemical Engineering Journal (Elsevier), Carbohydrate Polymers (Elsevier), Journal of Colloid and Interface Science (Elsevier), ACS Appl. Mater. Interfaces (ACS), Applied Surface Science (Elsevier), Journal of Molecular Liquids (Elsevier), International Journal of Biological Macromolecules (Elsevier), Progress in Organic Coatings (Elsevier), Journal of Alloys and Compounds (Elsevier), Materials Chemistry and Physics (Elsevier), RSC Advances (RSC), ACS Omega (ACS), Scientific Reports (Springer Nature), J. of Adhesion Science and Technology (Taylor & Francis).

FOREIGN VISIT FOR ACADEMIC PURPOSE :

- USA, UK, China, South Korea, Singapore, Saudi Arabia, Kazakhstan

RESEARCH PUBLICATIONS

- Published 191 research papers

Papers Published in Foreign Journals

1. ***M. Mobin,*** Babar Khan, Kanika Cial, Saman Zehra, Sustainable Corrosion Protection of Mild Steel in 5% HCl Using Comfrey Leaves Extract, Surfaces and Interfaces (Elsevier), Under Publication.

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2. S. Zehra, R. Aslam, J. Aslam, C. Verma, Z. Yan, Q. Wang, ***M. Mobin***, and A. AlFantazi, Chemically Functionalized Polymers as Corrosion Inhibitors: Effect of Solubility, Adsorption and Coordination Bonding, Coordination Chemistry Reviews (Elsevier), 535 (2025) 216637, https://doi.org/10.1016/j.ccr.2025.216637.

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165. I. Ahmad and ***M. Mobin***, Biopolymer extracted from maca root extract evaluated as green and an efficient corrosion inhibitor for mild steel in 1M HCl, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 23, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
166. S. Zehra and ***M. Mobin***, Development of stimuli-responsive nanocontainer based on halloysite/chitosan/pectin for smart anticorrosion epoxy coating, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 25, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.

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169. Irfan Ahmad and ***M. Mobin*** Synthesis, characterization and application of Almond gum-silver nanocomposite as corrosion inhibitor for mild steel in 1 M HCl, Proceedings, International conference on advanced materials for better tomorrow (AMBT-2021), organized by IIT-BHU in association with SIRMB, July 13-17, 2021, P. 13.
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171. R. Aslam, ***M. Mobin,*** M. Parveen and M. Shoeb, Corrosion inhibition of mild steel using ZrO2-Gly nanocomposite in hydrochloric acid solution, Proceeding, NACE-NIGIS-CORCON 2021, Paper No. MCI 23, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
172. Megha Basik and ***M. Mobin,*** Studies on amino acid based Ag-Au nanocomposite as effective green corrosion inhibitor for mild steel in 1M HCl, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. MCI 15, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
173. R. Aslam and ***M. Mobin,*** Dye-surfactant aggregates as corrosion inhibitor for mild steel HCl medium: experimental and theoretical studies, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. MCI 23, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
174. Farina Ansar, ***M. Mobin*** and M. Shoeb***,*** Graphene@Polyindole nanocomposite coating as promising anticorrosion coating for low carbon steel in 3.5% NaCl solution, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. YSS16, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
175. Irfan Ahmad, ***M. Mobin*** and Megha basik***,*** Almond gum as novel green corrosion inhibitor for mild steel in 1 M HCl, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. PP 2, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
176. Megha Basik and ***M. Mobin,*** Plant extract as novel environment friendly corrosion inhibitor for mild steel in 1M HCl solution, Proceeding, NACE-NIGIS-CORCON 2018, Paper No. MCI31, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
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179. M. Shoeb, ***M. Mobin*** and A.H. Naqvi, Preparation and characterization of graphene based Ag_2O nanoparticle decorated polyindole polymer nanocomposite (Gr@PIn/Ag_2O) as antibacterial agent, National conference on recent advances in chemical sciences, Department of Chemistry, A.M.U. Aligarh, March 25-26, 2017, p.74.
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181. M. Shoeb, ***M. Mobin*** and A.H. Naqvi, A new ultrafast eco-friendly strategy to synthesize graphene oxide, International conference on nano technology (Aligarh Nano-V) and STEM-education and research (STEM CON-16), March 12-15, 2016.
182. ***M. Mobin,*** J. Aslam and R. Alam, Corrosion Protection Performance of Poly(aniline-co-o-anisidine) and Poly(aniline-co-o-anisidine)/ZnO Nanocomposite Coatings on Mild Steel, Proceeding, NACE-NIGIS-CORCON 2015, Paper No. 13MIC14, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
183. ***M. Mobin***, Surfactants as corrosion inhibitors, Proceeding, NACE-NIGIS-CORCON 2014, Paper No. 13MIC14, 305A,Galleria Hiranandani Gardens, Powai, Mumbai.
184. ***M. Mobin*** and M. Parveen, Corrosion inhibition behavior of some amino acids in acidic medium and effect of synergistic surfactant additives, Proceeding, NACE-NIGIS-CORCON 2013, Paper No. 13MIC14, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
185. ***M. Mobin*** and M. Parveen, "Adsorption and corrosion inhibition behavior of S-containing amino acids on mild steel in acidic medium" International Conference on Chemistry: Frontiers and Challenges, held at Aligarh Muslim University, Aligarh, India, March 2-3, 2013.
186. ***M. Mobin*** and M. Alam Khan, "Effect of surfactants on the corrosion inhibition behavior of polyethylene glycol on mild steel in 0. 1M H_2SO_4" International Conference on Chemistry: Frontiers and Challenges, held at Aligarh Muslim University, Aligarh, India, March 2-3, 2013.
187. ***M. Mobin***, A.U. Malik, F. Al-Muaili and M. Al-Hajri, **"**Performance evaluation of a commercial polyurethane coating in marine environment, NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2011 held at Mumbai, India, September 28-October 01, 2011.
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BOOK EDITED/AUTHORED: 06

1. Book entitled, "Advancements in Bio-Surfactant Research" (Springer) (2023) Editors, R. Aslam, ***M. Mobin***, J. Aslam and S. Zehra, ISBN-13: 97-83031216817, https://doi.org/10.1007/978-3-031-21682-4 .
2. Book entitled, "Biopolymers in Sustainable Corrosion Inhibition" (CRC) (2024), Editors, S. Zehra, ***M. Mobin*** and C. Verma, ISBN-13: 978-1032508603, https://doi.org/10.1201/9781003400059 .
3. Book entitled," Surfactants: Potential Corrosion Inhibitor for Metals (Scholar's Press) (2015) Editors, Sheerin Masroor, ***M. Mobin***, ISBN-13 978-3639707359.
4. Book entitled, "An Overview of Plastic Waste Materials: The Sources, Separation and Management", (Mahi Publication) (2023), Authors, M. Arsalan, M. Parveen and M. Mobin, ISBN: 978-81-19492-12-1.
5. Book entitled, "Sustainable Food Waste Management: Anti-Corrosion Applications (Springer) (2024), Editors, R. Aslam, ***M. Mobin***, and J. Aslam, ISBN: 978-981-97-1159-8, https://doi.org/10.1007/978-981-97-1160-4
6. Book entitled, "Industrial Corrosion: Fundamentals, Failure, Analysis and Prevention (Wiley), Editors, S. Zehra, R. Aslam, ***M. Mobin*** and C. Verma (In Press).

GUEST EDITOR

Guest Editor of the special issue of the Journal "Frontiers in Chemistry" (Impact Factor 5.545) on the topic "Recent Progress in Corrosion Inhibitors Research" with Co-Editors Prof. Eno Ebenso and Dr. Saman Zahra.

BOOK CHAPTERS

1. R. Aslam, ***M. Mobin***, J. Aslam, Chapter 14- Ionic liquids as corrosion inhibitors, Book Title: Organic Corrosion inhibitors: Recent Advancements, Wiley, 315-342 (2021), ISBN1119794501, DOI. org/10.1002/9781119794516.ch14
2. M. Basik, ***M. Mobin***, Chapter 19- Synthetic Polymers as Corrosion Inhibitors, Book Title: Organic Corrosion Inhibitors: Recent Advancements, Wiley, 435-449 (2021), ISBN 1119794501, DOI. org/10.1002/9781119794516.ch19.
3. S. Zehra, ***M. Mobin***, R. Aslam, Chapter 11-Corrosion inhibitor for high temperature in oil and gas industry, Book Title: Sustainable Corrosion Inhibitors

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4. S. Zehra, ***M. Mobin***, Chapter 12- Amino Acids and their Derivatives as Corrosion Inhibitors, Book Title: Organic Corrosion Inhibitors: Recent Advancements, Wiley, 255-285 (2021), ISBN1119794501, DOI: org/10.1002/9781119794516.ch12.
5. S. Zehra, R. Aslam, ***M. Mobin***, Electrochemical Impedance Spectroscopy: A Useful Tool for Monitoring the Performance of Corrosion Inhibitors, Book Title: Recent Developments in Analytical Techniques for Corrosion Research, Springer, 91-117 (2022) ISBN 978-3-030-89101-5. DOI: 10.1007/978-3-030-89101-5_5.
6. R. Aslam, ***M. Mobin***, J. Aslam, Chapter 1- Nano-materials as corrosion inhibitors, Book title: Inorganic Anti-corrosive Materials (IAMs): Past, Present and Future perspectives, Elsevier, 3-16 (2022), ISBN 9780323904117, DOI: 10.1016/b978-0-323-90410-0.0014-3.
7. S. Zehra, ***M. Mobin***, J. Aslam, Chapter 13- Chromates as Corrosion Inhibitors, Book Title: Inorganic Anti-corrosive Materials (IAMs): Past, Present and Future Perspective. Elsevier, 251-268 (2022), ISBN 9780323904117, DOI: org/10.1016/B978-0-323-90410-0.00014-3.
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10. S. Zehra, ***M. Mobin***, R. Aslam, Chapter 3- Corrosion Inhibitors: An Introduction, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 47-67 (2022), ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00022-7.
11. R. Aslam, ***M. Mobin***, A. Aslam, S. Zehra, J. Aslam, Chapter 7- Corrosion inhibitors for neutral environment, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 147-164 (2022) ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00006-9.
12. R. Aslam, ***M. Mobin***, J. Aslam, Chapter 19- Corrosion inhibitors for refinery industries, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 385-404 (2022) ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00004-5.
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14. R. Aslam, ***M. Mobin,*** J. Aslam, Chapter-9, Commercialization of environmentally sustainable corrosion inhibitors, Book Title: Corrosion mitigation-biomass and other natural products, De Gruyter, 175-188 (2022) ISBN 978-3-11-076057-6, DOI:10.1515/9783110760583-009.
15. R. Aslam, ***M. Mobin***, S. Zehra, C. Verma, J. Aslam, Chapter 8, Anti-corrosive applications of iron, copper and titanium oxides, Book Title: Anticorrosive Nanomaterials: Future perspectives, RSC (2022), ISBN: 978-1-83916-411-8, DOI.org/10.1039/9781839166259-00165.
16. R. Aslam, ***M. Mobin,*** S. Zehra, J. Aslam, Chapter 3-Current applications of carbohydrate as green corrosion inhibitor for the oil and gas industry, Book Title: Polymeric Corrosion Inhibitors for Greening the Chemical and Petrochemical Industry, Wiley-VCH GmbH, 55-77 (2022) ISBN 9783527349920, DOI.org/10.1002/9783527835621.ch3.
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18. S. Zehra, ***M. Mobin***, R. Aslam, Chapter 2-Corrosion Prevention and Protection Methods, Book Title: Eco-friendly Corrosion Inhibitors: Principles, Designing and Application, Elsevier, 13-26 (2022) ISBN 9780323911764, DOI.org/10.1016/B978-0-323-91176-4.00023-4.
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20. R. Aslam, ***M. Mobin***, S. Zehra, A. Aslam, J. Aslam, Chapter 12- Anticorrosive application of organotin, SnO_2, and TiO_2-based nanocomposites, Book title: Functionalized nanomaterials corrosion mitigation: Synthesis, characterization and application (American Chemical Society), 255-269 (2022), eISBN 9780841297586, DOI:10.1021/bk-2022-1418ch012.
21. R. Aslam, ***M. Mobin,*** S. Zehra, J. Aslam, Chapter 1. Bio-surfactants: Types, Sources, and Production, Book title: Advancements in Bio-surfactants Research, (Springer-Nature), 03-24 (2023), ISBN978-3-031-21681-7, DOI: 10.1007/978-3-031-21682-4_1.
22. S. Zehra, ***M. Mobin***, R. Aslam, Chapter 9. Applications of Bio-surfactants as Anti-Corrosive Agents, Book title: Advancements in Bio-surfactants Research (Springer-Nature), 171-189 (2023), ISBN978-3-031-21681-7, DOI: 10.1007/978-3-031-21682-4_9.
23. S. I. Bhat, ***M. Mobin***, S. Islam, M. Irfan, R. Kouser, R. Aslam, S. Zehra, Chapter 1, Latest developments in commercial scale fabrications for Chemically Modified Carbon Nanotubes, Functionalized Carbon Nanotubes for Biomedical imaging: The Recent Advances, Book Title: Functionalized Carbon Nanotubes for Biomedical Applications (Current & Emerging Research Developments),

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25. A. Abbas, S. Zehra, R. Aslam, ***M. Mobin***, and S. I. Bhat, Chapter 9, Functionalized Carbon Nanotubes for Biomedical imaging: The Recent Advances, Book Title: Functionalized Carbon Nanotubes for Biomedical Applications (Current & Emerging Research Developments), WILEY-VCH GmbH, 197-223 (2023), ISBN:9783527838790, https://doi.org/10.1002/9781119905080.ch9
26. ***M. Mobin,*** K. Cial, J. Aslam, M. Parveen, R. Aslam, Chaper 17, Grafted dextrin as a corrosion inhibitor, Book title: Grafted Biopolymers as Corrosion Inhibitors: Safety, Sustainability, and Efficiency, Publisher: Wiley, 383-396 (2023), https://doi.org/10.1002/9781119881391.ch17
27. R. Aslam, ***M. Mobin***, Lei Guo, Chapter 13, Influence of Activated Carbon on Metallic Corrosion, Book title: Activated Carbon: Progress and Applications, Publisher: The Royal Society of Chemistry, 268-275 (2023), https://doi.org/10.1039/BK9781839169861-00268.
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29. S. Zehra, ***M. Mobin***, R. Aslam, M. Parveen, A. Aslam, Chapter 23, Nanocontainers loaded smart functional anticorrosion coatings, Book Title: Smart anticorrosive materials: Trends and opportunities, Elsevier, 48-497 (2023), https://doi.org/10.1016/B978-0-323-95158-6.00003-5.
30. ***M. Mobin***, K. Cial, R. Aslam, M. Parveen, Chapter 6. Crude oil Storage Tank Clean up Using Biosurfactants, Book name: Industrial Applications of Biosurfactants and Microorganisms: Green Technology Avenues from Lab to Commercialization, Elsevier, 107-119 (2024), https://doi.org/10.1016/B978-0-443-13288-9.00008-5
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32. ***M. Mobin***, S. Zehra, R. Aslam, Chapter 10, Graphene Composite-Based Anti-Corrosion Coatings, Book Name: Carbon Allotropes: Advanced Materials for Anticorrosive Coatings, CRC Press, Taylor & Francis Group, 203-217 (2023), eISBN:9781003323976, https://doi.org/10.1201/9781003323976.
33. S. Zehra, ***M. Mobin***, Babar Khan, Chapter 13, Pectin as corrosion inhibitors, Biopolymers in Sustainable Corrosion Inhibition, CRC Press, Taylor & Francis Group, (2024) eBook ISBN 9781003400059. https://doi.org/10.1201/9781003400059-13

34. K. Cial and ***M. Mobin***, Chapter 20: Phytochemicals/Plant extracts as corrosion inhibitors for aluminium in NaCl solution, Book name: Plant extract and phytochemicals as corrosion inhibitors, Publisher: CRC, Taylor and Francis group, eBook ISBN9781003394631, https://doi.org/10.1201/9781003394631.
35. M. Parveen ***M. Mobin***, S. Zehra, R. Aslam, K. Cial, Chapter 22: Phytochemicals/plant extracts as corrosion inhibitors for zinc in NaCl solutions, Book name: Plant extract and phytochemicals as corrosion inhibitors, Publisher: CRC, Taylor and Francis group, eBook ISBN9781003394631, https://doi.org/10.1201/9781003394631
36. Babar Khan, ***M. Mobin,*** R. Aslam, Chapter 4: Aqueous and organic extracts: Advantages and disadvantages and their relative anticorrosive performance, Book name: Plant extract and phytochemicals as corrosion inhibitors, Publisher: CRC, Taylor and Francis group, eBook ISBN9781003394631, https://doi.org/10.1201/9781003394631.
37. S. Zehra, ***M. Mobin,*** Chapter 1: Biomimetic coatings: an introduction, Book Title: Smart Biomimetic coatings: Design, Properties, and Biomedical Applications, Woodhead Publishing, 1-17 (2024) https://doi.org/10.1016/B978-0-443-21738-8.00001-1
38. S. Zehra, ***M. Mobin*** and M. Parveen, Chapter 1: Corrosion Fundamentals: Understanding the Science Behind the Damage, Book Title: Industrial Corrosion Fundamentals, Failure, Analysis and Prevention, Publisher: Wiley, In Press.
39. S. Zehra, ***M. Mobin***, Chapter 13: Corrosion Monitoring and Inspection Techniques in Industrial Environments, Book Title: Industrial Corrosion Fundamentals, Failure, Analysis and Prevention, Publisher: Wiley, In Press.
40. R. Aslam, ***M. Mobin***, Application of Gemini Surfactants as anti-corrosive materials, Book Title: Advances in Material Research and Technology volume: Advances in Surfactants Technologies, Springer, Status: Under Production.

SUPERVISOR FOR RESEARCH DEGREE

- 17 students awarded PhD; 02 student awarded MPhil, 04 students are currently enrolled for PhD and 04 students enrolled for Post-Doctoral Research.

PhD Degree Awarded

1. **S.K. Hasan**, "High temperature studies on some inorganic coatings and related reactions involving metal oxides and ionic salts" **(Year of Award 2000).**
2. **Nelofar Tanveer**, "Studies on the corrosion protection of steel by conducting polymer coatings" **(Year of Award 2011)**.
3. **Nazia Iqbal**, (2012), "Studies on the synthesis, characterization and ion-exchange properties of some surfactant based ion-exchangers" **(Year of Award 2012)**.
4. **Hina Shabnam**, "Studies on the role of heavy metal ions on the corrosion behavior of iron base alloys" **(Year of Award 2012)**.

5. **Mosarrat Parveen**, “Studies on the corrosion inhibition behavior of some amino acid surfactant additives” **(Year of Award 2012).**
6. **Uzma Aisha**, “Kinetic of degradation of pesticides in organized media” **(Year of Award 2012)**.
7. **M. Alam Khan**, “Studies on the corrosion inhibition behavior of some Polymers surfactant additives” **(Year of Award 2013).**
8. **Sheerien Masroor**, “Studies on the corrosion inhibition behavior of some novel surfactants for steel” **(Year of Award 2014).**
9. **Ruman Alam** "Studies on some novel anticorrosion conducting polymeric materials"**(Year of Award 2016).**
10. **Saman Zehra** "Studies on the corrosion inhibition behavior of some amino acids and their derivatives" **(Year of Award 2017).**
11. **Marzia Rizvi** "Studies on the corrosion inhibition behavior of some natural and synthetic polymers"**(Year of Award 2018).**
12. **Ruby Aslam** "Studies on some gemini surfactants as corrosion inhibitors"**(Year of Award 2018).**
13. **Mohd. Shoeb** "Development and application of graphene based nanocomposites" **(Year of Award 2019).**
14. **Megha Basik** "Development of some noble environment friendly corrosion inhibitors for mild steel" **(Year of Award 2019).**
15. **Irfan Ahmad:** Studies on the corrosion inhibition behavior of some biopolymers and their derivatives **(Year of Award 2022).**
16. **Farina Ansar:** Studies on some novel anticorrosion coatings based on conducting polymers **(Year of Award 2023).**
17. **Huda**: Development of some ionic liquids-based corrosion inhibitors for mild steel **(Year of Award 2023)**.

M.Phil. Awarded

1. **S.K. Hasan,** “Physico-chemical studies on some inorganic coatings” **(Year of Award 1998).**
2. **Ruby Aslam**, “Microstructural evaluation in biodegradable gemini surfactant solutions in presence of additives” **(Year of Award 2014).**

Students Currently Registered for PhD Degree

1. **Kanika Cial**: Studies on corrosion inhibition behavior of some environment friendly surfactants.
2. **Babar Khan:** Studies on some plant based green corrosion inhibitors for mild steel.
3. **Anam Hasan:** Synthesis and application of novel carbon dots as eco-friendly corrosion inhibitor for mild steel.
4. **Sitwat Almas:** Study on some novel surface-active ionic liquids as corrosion inhibitor for low carbon steel.

Post-Doctoral Supervision:

1. **Dr. Zeenat Aslam** "Development of some anticorrosive conducting polymer based nano-composite coatings on iron-base alloys, [Research Associate (CSIR) January 28, 2014-January 27, 2017].
2. **Dr. Ruby Aslam** "Development of some sustainable corrosion inhibitor-experimental and theoretical approach" [Research Associate (CSIR) May 01, 2019-April 30, 2022].
3. **Dr. Saman Zehra** "Development of Smart Functional Coatings Loaded with Stimuli-Responsive Nanocontainers for Corrosion Sensing and Protection"[Research Associate (CSIR) January 28, 2021-April 23, 2022].
4. **Dr. Mohd. Shoeb** "Development of novel two dimensional nanomaterial based nanocomposite for advancement in energy storage devices" [Research Associate (CSIR) March 16, 2021-Continuing].
5. **Dr. Shahidul Islam Bhat** "Study of bio-based reduced graphene oxide dispersed water borne hyper branched functional nanocomposite coatings" [Dr. D. S. Kothari Fellow September 30, 2021-continuing].
6. **Dr. Saman Zehra,** Women Scientist (WOS-A), DST, New Delhi, April 25, 2022-Continuing.
7. **Dr. Ruby Aslam** "Development of Smart Functional Coatings Loaded with Stimuli-Responsive Nanocontainers for Corrosion Sensing and Protection"[Research Associate (CSIR) May 01, 2022- Continuing].

SUPERVISOR FOR MASTER DEGREE

M.Sc. Tech Awarded

1. **Aqsa Iqbal Khan,** "Synthesis, characterization and application of graphene polyindole nanocomposite" **(Year of Award 2015).**
2. **Priyanka Deb,** "Synthesis, characterization and application of graphene polyindole nanocomposite" **(Year of Award 2015).**
3. **Sameer Khan,** "Synthesis, characterization and application of graphene polyindole nanocomposite" **(Year of Award 2015).**
4. **Farheen Fatima,** "One step synthesis and characterization of graphene based Ag polyindole nanocomposite network" **(Year of Award 2016).**
5. **Neetika Varshney,** "One step synthesis and characterization of graphene based Ag polyindole nanocomposite network" **(Year of Award 2016).**
6. **Farina Ansar,** "Synthesis and characterization of graphene based Ag_2MoO_4/Ag/AgBr-polyaniline nanocomposite" **(Year of Award 2017).**
7. **Jitendra Kumar Lawaniya,** "Synthesis and characterization of graphene based Ag_2MoO_4/Ag/AgBr-polyaniline nanocomposite" **(Year of Award 2017).**

8. **Liaqat Ali Kamran,** "Trash to treasure: Waste eggshells polyindole nanocomposite used as high-performance supercapacitors and protective coatings" **(Year of Award 2018).**
9. **Mohd. Riyaz,** "Trash to treasure: Waste eggshells polyindole nanocomposite used as high-performance supercapacitors and protective coatings" **(Year of Award 2018).**
10. **Sitwat Almas,** "Two-dimensional based polymer nanocomposites in supercapacitor applications" **(Year of Award 2020).**
11. **Abdul Hai,** "Two-dimensional based polymer nanocomposites in supercapacitor applications" **(Year of Award 2020).**
12. **Mohd. Osama Khizri,** "Study on the polyindole based supercapacitors" **(Year of Award 2022).**

CONFERENCE/ WORKSHOP ATTENDED

- Attended 39 national and international (13 foreign and 26 national) conferences.

Foreign Conferences

1. 19th Asian Pacific Corrosion Control Conference, held at Guangzhou, China, November 16-18, 2023.
2. 19th International Corrosion Congress, held at Jeju, Republic of Korea, November 02-06, 2014.
3. NACE Corrosion 2011, Conference and Expo, held at Houston, Texas-77084, USA, March 13-17, 2011.
4. Seminar on “Electron Microscopy in the Nanotech World”, organized by A.R. Al-Gosaibi G.T.B. and JEOL Ltd Japan, held at Dhahran Intercontinental hotel, K.S.A., March 06, 2006.
5. World Congress on Desalination and Water Reuse, Organized by International Desalination Association, held at Singapore, September 11-16, 2005.
6. The 4th Gained Experience Symposium”, organized by Saline Water Conversion Corporation, held at Jeddah Hilton, K.S.A. April 24-26, 2005.
7. Seminar/Discussion Meeting on “Water Treatment”, organized by Saudi Aramco, held at Tower Building, Saudi Aramco, Dhahran, K.S.A., November 29, 2004.
8. Seminar on “Technical exchange meeting on Boilers”, organized by SABIC Technology Center, Jubail, held at Jubail Intercontinental hotel, K.S.A., May 11-12, 2004.
9. Seminar on "Air monitoring and emission inventory", organized by Haif industrial and environmental services in collaboration with Rowan William Davies & Irwin Inc. (RWDI) Canada, held at Jubail Intercontinental hotel, K.S.A., October 15, 2003.
10. Seminar/Demonstration/Installation on “Thrukote UB Sleeves”, organized by Al-Qahtani pipe coating terminal, held at AQPCT #2, Dammam, K.S.A., November 4, 2002.

11. Seminar/Workshop on Leica compound/ Stereo microscopy, Digital documentation and Image analysis system, organized by Al Tuwairqie Group of companies, held at Carlton Al- Moiabed hotel, Al- Rakah, Al-Khobar, K.S.A., October 26, 2002.

12. Seminar on “Vapor phase corrosion inhibitors”, organized by M/s Yusuf Bin Ahmed Kanoo in collaboration with Cortec Corporation, USA, held at Jubail Intercontinental hotel, K.S.A., April 3, 2002.

13. 3rd Acquired Experience Symposium, “Changing for the better” organized by Saline Water Conversion Corporation, RDTC, Al-Jubail, K.S.A., February 4-6, 2002.

National Conferences

14. 2nd International Conference in Chemistry-2025 on “Innovation in Chemical Sciences for Sustainable Development and Its Importance in Day-to-Day Life” held at the Department of Chemistry, School of Sciences, Maulana Azad National Urdu University, Hyderabad, January 30-31, 2025.

15. 20th National Conference on Corrosion Control, held at Coimbatore, Tamil Nadu, December 07-09, 2023.

16. 29th International Conference and Expo on Corrosion, CORCON 2023, held at Mumbai, October 25-28, 2023.

17. 28th International Conference and Expo on Corrosion, CORCON 2022, held at Udaipur, September 19-22, 2022.

18. NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2021 held at Mumbai, India, November 18-20, 2021.

19. Webinar on Corrosion Science and Technology, CoST2021, organized by Indian Institute of Metals, Kalpakkam chapter, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, May 12, 2021.

20. NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2019 held at Mumbai, India, September 23-26, 2019.

21. 2nd International conference on "Chemistry Industry and Environment", (ICCIE 2019) organized by Department of Applied Chemistry, A.M.U. Aligarh, February 18-19, 2019.

22. 19th National Conference on Corrosion Control held at Mayfair Convention, Bhubaneswar, December 05-07, 2018.

23. National Conference on Current Trends in Chemical and Environmental Sciences-2016 held at Institute of Technology and Management, Gorakhpur, UP, April 23, 2016.

24. NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2015 held at Chennai, India, November 19-21, 2015.

25. NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2014 held at Mumbai, India, November 12-15, 2014.

26. NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2013 held at New Delhi, India, September 30-October 03, 2013.

27. National workshop “Advances in polymeric materials” held at Department of Applied Chemistry, A.M.U. Aligarh, India, September 21-22, 2013.

28. NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2011 held at Mumbai, India, September 28-October 01, 2011.

29. 14th National congress on corrosion control, organized by National Corrosion Council of India (NCCI), held at Hotel Green Park Hyderabad, September 18-20, 2008.

30. International conference on Corrosion ”Corcon 2007” organized by NACE International India section, held at Intercontinental the Grand Mumbai, September 26-28, 2007.

31. 34th National Workshop on " Radiochemistry and Applications of Radioisotopes", Sponsored by board of research in nuclear sciences, DAE and conducted jointly by the Department of Applied Chemistry, A.M.U. Aligarh and Indian Association of Nuclear Chemists and Allied Scientists, February 8-15, 1999.

32. International conference on "Chemistry Industry and Environment", organized by Department of Applied Chemistry, A.M.U. Aligarh, February 9-11, 1998.

33. IInd "Induction Training Program for Teachers in Engineering", organized by the Academic staff college, Aligarh Muslim University, Aligarh (Sponsored by All India Council of Technical Education, New Delhi) September 4-23, 1995.

34. International workshop on "High temp. Corrosion and Surface Treatment", organized jointly by ASM International India chapter and SAEST Bombay chapter, Bombay, February 5-6, 1995.

35. National Seminar on Corrosion and its Prevention in Steel and related Industries, organized by Steel Authority of India Ltd., held at Ranchi, October 19-20, 1989.

36. Academic staff orientation program organized by Academic staff college, Aligarh Muslim University, Aligarh, May 1- June 1, 1989.

37. Academic staff orientation program organized by Academic staff college, Aligarh Muslim University, Aligarh, April 4-30, 1988.

38. Workshop on "Evaluation Methodology", organized by Examination Reform Unit, Aligarh Muslim University Aligarh (in collaboration with NCERT, New Delhi) October 25-30, 1987.

39. International congress on Metallic Corrosion, organized by Central Electrochemical Research Institute, Karaikudi, India, on behalf of International Corrosion Council, held at Madras, India, November 7-11, 1987.

40. International conference on Corrosion Science and Technology, ICMS - 85, held at Calcutta India, February 21-23, 1985.

PERSONAL DETAILS

- Date of Birth: January 01, 1962
- Marital Status/ Sex: Married/ Male

REFERENCES

1. Prof. Gurmeet Singh, Former Vice-Chancellor, Pondicherry University.
2. Prof. P.K. Abdul Azis, Former Vice-Chancellor, Aligarh Muslim University and Cochin University of Science & Technology.