

# CURRICULUM VITAE

## UMAIR AFTAB



### PERSONAL INFORMATION:

**Father Name :** Aftab Ahmad Pirwani  
**C.N.I.C. No. :** 42201-6343794-5  
**Birth Date :** 06 January 1986  
**Cell No. :** 0333-2708255  
**Postal Address:** A-141, Sindh University Society Phase-I, Jamshoro, Pakistan

**Nationality :** Pakistani  
**Email:** umair.aftab@faculty.muet.edu.pk  
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### CAREER OBJECTIVE:

As a teacher, I would like to devise captivating, fascinating, and unique practices of teaching that creates interest in the students and develop their professional skills and attitudes. With the help of my cordial nature, I would like to build good rapport with students as well as teachers around me. To create a research environment in the department.

### EDUCATION:

**Doctor of Philosophy  
(Metallurgy & Materials)**

Mehran UET,  
Jamshoro

In Progress

**Project:**

Synthesis of Nano-Structures with Enhanced Catalytic Properties for Water Splitting Application.

**Masters of Engineering  
(Manufacturing Engineering)**

Mehran UET,  
Jamshoro

(2012)

78% marks (PGD)  
(1<sup>st</sup> division)

**Project:**

Manufacturing of Nano-Cerium oxide Al-Zn based Sacrificial Anode.

**Bachelor of Engineering  
(Metallurgy & Materials)**

Mehran UET,  
Jamshoro

(2008)

77.54% marks  
(1<sup>st</sup> division)

**Project:**

Study of Welding & Cathodic Protection of Gas Pipe Line.

**Intermediate  
(Pre-Engineering)**

Govt. Degree Boys College  
Gulzar-e-Hijri; Karachi

(2004)

61% marks  
(Grade B)

**Matriculation**

Usmania Academy  
Karachi

(2002)

76.7% marks  
(Grade A)

### WORK EXPERIENCE & INTERNSHIPS:

- ✦ Assistant Professor at **Mehran University Of Engineering & Technology, Jamshoro** [Sep 23, 2016 - Today]
- ✦ Lecturer at **Mehran University Of Engineering & Technology, Jamshoro**  
Under National Internship Program: [Feb 18, 2010 -- Feb 17, 2011]  
On contract as a Visiting Faculty: [Feb 24, 2011 – Apr 23, 2011]  
As a Regular Faculty: [Jul 16, 2011 – Sep 22, 2016]
- ✦ Internee at **Aftab Technologies (Pvt.) Limited (Karachi)**; [Jun 22, 2015 – Jul 4, 2015]
- ✦ Internee at **Pakistan Steel (Karachi)**; [Jun 16, 2008 – Jul 11, 2008]
- ✦ Internee at **Karachi Shipyard & Engineering Works (Karachi)**; [Jun 14, 2007 – Jul 13, 2007]
- ✦ Internee at **Pakistan Machine Tool Factory (Karachi)**; [Jun 12, 2006 – Jul 08, 2006]

## **PROJECTS SUPERVISED:**

### **MASTERS OF ENGINEERING COMPLETED**

<b><u>TITLE</u></b>	<b><u>STUDENT</u></b>
✚ <i>Determining the effect of Acidic Agents on Physico-Mechanical Characteristics of Dental restorative materials</i>	Mr. Ayatullah Qureshi
✚ <i>Development of Nickel-Flourapatite Composite Electroplating for Bio-Implants</i>	Mr. Fahad Jabbar
✚ <i>Analyzing the Effect of Changing RAH Seal Material on the Heat Rate Improvement of 210-MW unit at TPS Muzaffargarh</i>	Mr. Syed Amjad Ali Shah
✚ <i>Green Synthesis and Characterization of Metal Nano Particles</i>	Mr. Kishore Kumar

### **BACHELORS OF ENGINEERING**

<b><u>TITLE</u></b>	<b><u>BATCH</u></b>
✚ <i>Production and Characterization of Graphene Oxide</i>	12MT
✚ <i>Enhancement of Physico-Mechanical Properties of TIG Welded Aluminum Alloy 6061 Through Heat Treatment</i>	12MT
✚ <i>Development of Nickel-Fluorapatite Composite Coating on Mild Steel</i>	11MT
✚ <i>Investigate the Effect of Surface Condition and Environment on Corrosion Penetration Rate (CPR)</i>	10MT
✚ <i>Effect of Cerium(IV) Oxide Particles On Aluminium And Al-5%Zn Base Sacrificial Anode</i>	09MT
✚ <i>To Optimize the Voltage of ICCP System to Protect Pipe Steels in Different Environments.</i>	08MT

## **MEMBERSHIPS:**

- ✚ *Pakistan Engineering Council (Registration No. METAL/2175)*
- ✚ *Mehranain Materials Advantage Chapter (MMAC).  
(Also serve as Faculty Mentor of MMAC)*
- ✚ *The Minerals, Metals & Materials Society (TMS) [2009]*

## **WORKSHOPS, SHORT COURSES & SEMINARS:**

- ✚ *Three days Short Course on “Advanced Characterization Techniques for Professionals”, School of Chemical and Materials Engineering, NUST Islamabad, Pakistan. (April 23-25, 2019)*
- ✚ *Two days Conference on “1<sup>st</sup> International Conference on Sustainable Mineral Resource Development and Utilization (SMRDU-19)”, organized by Coal Research and Resource Center, M.U.E.T. , Jamshoro, Pakistan at KLC PCSIR Karachi (Feb 12-13, 2019)*
- ✚ *One day Short Course on “Corrosion and Protection Techniques”, One CPD Point, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (November 14, 2018)*
- ✚ *One day Short Course on “Application of MATLAB in Material Design”, One CPD Point, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (October 30, 2017)*
- ✚ *Three days “COMSTECH-CIIT Joint International Workshop on Rational Design of Materials for Energy Needs: Computation and Experimentation” May 22-26, 2017, COMSTECH Islamabad, Pakistan*
- ✚ *Three days conference on “1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17)”, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✚ *One day conference on “Mines and Minerals”, Karachi Expo Center, (January 07, 2017)*
- ✚ *One day conference on “2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16)”, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)*

- ✦ *One day workshop on “Capacity Building for Outcome based Education and Assessment Implementation”, One CPD Point, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (September 30, 2016)*
- ✦ *One day workshop on “Outcome based Education and Accreditation System”, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (May 05, 2016)*
- ✦ *One day seminar “How Metallurgy & Materials Engineers Serve a Society?”, Mehran University of Engineering and Technology, Jamshoro, Pakistan (28th Oct, 2015)*
- ✦ *One day conference on “1<sup>st</sup> National Conference on Metallurgy and Materials (NCMM-15)”, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (March 25, 2015)*
- ✦ *Teacher Coordinate at Social Event “Big Event Pakistan”, Mehran University of Engineering and Technology, Jamshoro, Pakistan (Feb 18 – Apr 11 2015)*
- ✦ *Two days Congress on “5<sup>th</sup> International Foundry Congress & Exhibition (IFCE)” Pakistan Foundry Association at Faletti’s Hotel Lahore, Pakistan (on Dec 2-3, 2014)*
- ✦ *One day conference on “Mehran Youth Leadership Conference-MYLC”, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 6, 2014)*
- ✦ *One Day CPD Short Course “How to Write Technical Research Paper”, One CPD Point, Usman Institute of Technology (UIT), Karachi (Aug 29, 2013)*
- ✦ *Three days conference on “2<sup>nd</sup> International Conference on Energy, Environmental and Sustainable Development (EESD 2012)”, Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 27 – 29, 2012)*
- ✦ *Two days workshop on “Vacuum & Thin Film Technology”. National Center for Physics, Islamabad. (June 29-30, 2010)*
- ✦ *One day short course on “Steel Making & Heat Treatment Processes”, Mehran University of Engineering and Technology, Jamshoro, Pakistan (April 09, 2009)*
- ✦ *One day seminar “Role of Materials Engineering in the field of Science & Technology”, Mehran University of Engineering and Technology, Jamshoro, Pakistan (Dec 13, 2008).*

#### **PUBLISHED PAPERS:**

- ✦ *Umair Aftab, Aneela Tahira, Abdul Hanan Samo, Muhammad Ishaq Abro, Muhammad Moazam Baloch, Mukesh Kumar, Sirajuddin, Zafar Hussain Ibupoto “Mixed CoS<sub>2</sub>@Co<sub>3</sub>O<sub>4</sub> composite material: An efficient nonprecious electrocatalyst for hydrogen evolution reaction”, International Journal of Hydrogen Energy, Vol 45, Issue 27, pp. 13805-13813, 2020, DOI: 10.1016/j.ijhydene.2020.03.131 (IF: 4.939)*
- ✦ *Umair Aftab, Aneela Tahira, Raffaello Mazzaro, Vittorio Morandi, Muhammad Ishaq Abro, Muhammad Moazam Baloch, Cong Yu, Zafar Hussain Ibupoto “Nickel–cobalt bimetallic sulfide NiCo<sub>2</sub>S<sub>4</sub> nanostructures for a robust hydrogen evolution reaction in acidic media”, RSC Advances, Vol 10, Issue 37, pp. 22196-22203, 2020, DOI: 10.1039/D0RA03191G (IF:3.049)*
- ✦ *Adeel Liaquat Bhatti, Umair Aftab, Aneela Tahira, Muhammad Ishaq Abro, Muhammad Hassan Aghem, Muhamad Ali Bhatti, Zafar Hussain Ibupoto “Facile doping of nickel into Co<sub>3</sub>O<sub>4</sub> nanostructures to make them efficient for catalyzing the oxygen evolution reaction”, RSC Advances, Vol 10, Issue 22, pp. 12962-12969, 2020, DOI: 10.1039/D0RA00441C (IF:3.049)*
- ✦ *Abdul Qayoom Mugheri, Aneela Tahira, Umair Aftab, Adeel Liaquat Bhatti, Nusrat Naeem Memon, Muhammad Ishaque Abro, Aqeel Ahmed Shah, Magnus Willander, Ahmed Ali Hullio and Zafar Hussain Ibupoto “Efficient tri-metallic oxides NiCo<sub>2</sub>O<sub>4</sub>/CuO for the oxygen evolution reaction”, RSC Advances, Vol 9, Issue 72, pp. 42387-42394, 2019, DOI: 10.1039/C9RA09351F (IF:3.049)*
- ✦ *Umair Aftab, Aneela Tahira, Raffaello Mazzaro, Muhammad Ishaq Abro, Muhammad Moazam Baloch, Magnus Willander, Omer Nur, Cong Yu and Zafar Hussain Ibupoto “The chemically reduced CuO–Co<sub>3</sub>O<sub>4</sub> composite as a highly efficient electrocatalyst for oxygen evolution reaction in alkaline media”, Catalysis Science & Technology, Vol 9, Issue 22, pp. 6274-6284, 2019, <https://doi.org/10.1039/C9CY01754B> (IF:5.726).*

- ✦ Abdul Qayoom Mugheri, Aneela Tahira, **Umair Aftab**, Muhammad Ishaq Abro, Arfana Begum Mallah, Gulam Zuhra Memon, Humaira Khan, Mazhar Ali Abbasi, Imran Ali Halepoto, Saleem Raza Chaudhry and Zafar Hussain Ibutoto “**An advanced and efficient Co<sub>3</sub>O<sub>4</sub>/C nanocomposite for the oxygen evolution reaction in alkaline media**”, RSC Advances, Vol 9, Issue 59, pp. 34136-34143, Oct 2019, DOI: 10.1039/C9RA07224A (IF:3.049)
- ✦ Shoukat Ali Noonari, **Umair Aftab**, Imtiaz Ali Soomro, Bilal Ahmed Soomro and Akber Ali Pirzada “**Study of Antibacterial Effect of Cerium Oxide Nanoparticles on Escherichia Coli Microorganism**”, Mehran University Research Journal of Engineering and Technology, Vol 38, Issue 3, pp. 461-466, July 2019
- ✦ Abdul Sattar Chang, Nusrat Naeem Memon, Sidra Amin, Fouzia Chang, **Umair Aftab**, Muhammad Ishaq Abro, Ali dad Chandio, Aqeel Ahmed Shah, Mazhar Hussain Ibutoto, Muhammad Akram Ansari and Zafar Hussain Ibutoto “**Facile Non-enzymatic Lactic Acid Sensor Based on Cobalt Oxide Nanostructures**”, Electroanalysis, , 2019, DOI: <https://doi.org/10.1002/elan.201800865> (IF:2.691)
- ✦ Aneela Tahira, Zafar Hussain Ibutoto, Mikhail Vagin, **Umair Aftab**, Muhammad Ishaq Abro, Magnus Willander, Omer Nur “**An efficient bifunctional electrocatalyst based on a nickel iron layered double hydroxide functionalized Co<sub>3</sub>O<sub>4</sub> core shell structure in alkaline media**”, Catalysis Science & Technology, Vol 9, Issue 11, pp. 2879-2887, 2019, DOI: 10.1039/C9CY00351G (IF:5.726).
- ✦ Abdul QayoomMugheri, **Umair Aftab**, Muhammad IshaqAbro, Saleem Raza Chaudhry, Luís Amaral and Zafar Hussain Ibutoto “**Co<sub>3</sub>O<sub>4</sub>/NiO bifunctional electrocatalyst for water splitting**”, Electrochimica Acta, Vol 306, pp. 9-17, May 2019, <https://doi.org/10.1016/j.electacta.2019.03.092> (IF:5.383)
- ✦ Kishore Chand, M. Ishaque Abro, **Umair Aftab**, Ahmer Hussain Shah, Muhammad Nazim Lakhan, Dianxue Cao, Ghazanfar Mehdi and Abdalla Mohamed Ali Mohamed “**Green synthesis characterization and antimicrobial activity against Staphylococcus aureus of silver nanoparticles using extracts of neem, onion and tomato**”, RSC Advances, Vol 9, Issue 30, pp. 17002-17015, May 2019, DOI: 10.1039/C9RA01407A (IF:3.049)
- ✦ Abdul Qayoom Mugheri, Aneela Tahira, **Umair Aftab**, Muhammad Ishaq Abro, Saleem Raza Chaudhry, Luís Amaral and Zafar Hussain Ibutoto “**Facile efficient earth abundant NiO/C composite electrocatalyst for the oxygen evolution reaction**”, RSC Advances, Vol 9, Issue 10, pp. 5701-5710, January 2019, DOI: 10.1039/C8RA10472G (IF:3.049)
- ✦ Shahid Hussain Abro, Ali Dad Chandio and **Umair Aftab** “**Effect of Heating Rate on Microstructural Developments in Cold Heading Quality Steel used for Automotive Applications**”, Mehran University Research Journal of Engineering and Technology, Vol 37, Issue 3, pp. 461-466, July 2018
- ✦ **Umair Aftab**, Muhammad Ishaque Abro, Ali Dad Chandio, Wasim Akhtar and Shafique Ahmed “**Effect of Nano-Ceria on Physiognomies of Aluminum-5% Zinc Sacrificial Anode**”, Mehran University Research Journal of Engineering and Technology, Vol 37, Issue 2, pp. 351-358, April 2018
- ✦ Inamullah Maitlo, **Umair Aftab**, Muhammad Ishaque Abro and Muhammad Moazam Baloch “**Selective Leaching of Steel Pollutant Element from Dilband Iron Ore, Pakistan**”, Mehran University Research Journal of Engineering and Technology, Vol 36, Issue 3, pp. 757-762, July 2017
- ✦ Muhammad Ishaque Abro, Riaz Ahmed Memon, Imtiaz Ali Soomro, and **Umair Aftab** “**Effect of Intercritical Heat Treatment on Mechanical Properties of Reinforcing Steel Bar**”, Mehran University Research Journal of Engineering and Technology, Vol 36, Issue 3, pp. 589-596, July 2017
- ✦ Faisal Ahmed Memon, Francesco Morichetti, Muhammad Ishaque Abro, Giosue Iseni, Claudio Somaschini, **Umair Aftab** and Andrea Melloni “**Synthesis, Characterization and Optical Constants of Silicon Oxycarbide**”, EPJ Web Conf., Vol 139, Article 2, pp. 1-5, 2017 <https://doi.org/10.1051/epjconf/201713900002>
- ✦ **Umair Aftab**, M. I. Abro, Moazam Baloch and M. H. Jokhio “**Development of Aluminium-Ceria Composite by Using Stir Casting**”, ELEMENT, Pakistan Foundry Association, 2<sup>nd</sup> Edition, 2015, [http://www.pfa.org.pk/gallery\\_images/news/2018928982Element%20Aug%202015\(2\).pdf](http://www.pfa.org.pk/gallery_images/news/2018928982Element%20Aug%202015(2).pdf)  
<http://pfa.org.pk/pdf/paper%207.pdf>



## CONFERENCE & SYMPOSIUM PAPERS:

- ✦ *Umair Aftab, Muhammad Ishaque Abro, Muhammad Moazam Baloch and Sirajuddin Khan “Facile Organic Ligand Assisted Hydrothermal Synthesis of MoS<sub>x</sub>-MoO<sub>x</sub> Nanocomposites for Hydrogen Production”, 1<sup>st</sup> International Conference on Sustainable Mineral Resource Development and Utilization (SMRDU-19), organized by Coal Research and Resource Center, M.U.E.T. , Jamshoro, Pakistan at KLC PCSIR Karachi (Feb 12-13, 2019)*
- ✦ *Umair Aftab, Imtiaz Ali Soomro, Aitazaz Ahmed, Arif Ali and Umair Khan “Effect of Deformation on Martensite Transformation in Ti-6-Al-4V Alloy”, 2<sup>nd</sup> International Conference on Chemical Engineering, organized by Department of Chemical Engineering, MUET Jamshoro at Movenpick Hotel Karachi, Pakistan. (Jan 22-23, 2018)*
- ✦ *Kishore Chand, M. Ishaque Abro, Umair Aftab, Shoukat Ali Noonari and Mukesh Kumar “Green Synthesis and Characterization of Silver Nanoparticles”, 2<sup>nd</sup> International Conference on Chemical Engineering, organized by Department of Chemical Engineering, MUET Jamshoro at Movenpick Hotel Karachi, Pakistan. (Jan 22-23, 2018)*
- ✦ *Vinod Kumar, Umair Aftab, Junaid Ahmed, Shahwaiz Saeed and Muzafar Ahmed “Synthesis and Characterization of GO/RGO Polymer Composite”, 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *Qureshi Ayatullah, M. Moazam Baloch and Umair Aftab “Effect of Food and Beverages on Physical and Mechanical Behavior of Dental Restorative Materials”, 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *Santosh Kumar, Mukesh Kumar, Umair Aftab, Imtiaz Soomro and Rehan Laghari “Impact of Wooden Ash Amendments on Physical and Chemical Properties of Desert Soil” , 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *Vinod Kumar, Mukesh Kumar, Umair Aftab, Muzafar Ahmed and Abdul Hanan “Synthesis and Characterization of Graphene Nano-Sheets” , 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *A.J. Laghari, M. I. Abro, Umair Aftab, M. M. Baloch and S. A. Channa “The Effect of Polyvalent Metal Ions on Zeta Potential Study of Hematite, Quartz, Kaolinite, Calcite and Fluorapatite Minerals” , 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *Syed Amjad Ali Shah, Tanweer Hussain, Umair Aftab “Analyzing the effect of changing RAH seal material on the heat rate improvement of 210-MW unit” , 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *Rohit Sharma, Muhammad Ishaque Abro, Peerji Rajput, Mukesh Kumar and Umair Aftab “EEE-waste Recycling Management: A Review”, 1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (Feb 28-March 2, 2017)*
- ✦ *Umair Aftab, M. Ishaque Abro, Wasim Akhtar and Shafique Ahmed “Effect of Nano Ceria on Physiognomies of Aluminum-5% Zinc Sacrificial Anode”, 2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)*
- ✦ *Ayatullah Qureshi, Moazam Baloch and Umair Aftab “Effect of Acidic Agents on Physico – Mechanical Characteristics of Dental Restorative Materials”, 2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)*

- ✦ Vinod Kumar, Abdul Hanan, Muzafar Ahmed Kolachi, Umair Aftab and M. Ishaque Abro **“Production and Characterization of Graphene Oxide”**, 2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)
- ✦ Inamullah Maitlo, Moazam Baloch, M. Ishaque Abro and Umair Aftab **“Selective Leaching of Steel Pollutant Element from Dilband Iron Ore in Pakistan”**, 2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)
- ✦ Muddassir Ali Memon, Moazam Baloch, Wasim Akhtar, Umair Aftab and Ayatullah Qureshi **“Development and Characterization of Super Absorbent Polymer Composite using Nano Clay”**, 2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)
- ✦ Sarfaraz Ali Shah, Mukesh Kumar, Raja Shahbaz, M. Ishaque Abro and Umair Aftab **“Evaluation of Neem Leaves Extract as Corrosion Inhibitor for Mild Steel”**, 2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (August 11, 2016)
- ✦ Imtiaz Ali Soomro, Ayatullah Qureshi, Umair Aftab and Shaukat Ali Noonari **“Hydrogen Technology, a potential option for sustainable development of Pakistan”**, 1<sup>st</sup> International Conference on Indigenous Resource Management Challenges and Opportunities 2016, The University of Management Sciences & Information Technology Kotli Azad Kashmir (14-15 April 2016)
- ✦ Umair Aftab, M. Ishaque Abro, M. Hayat Jokhio, and M. Moazam Baloch **“Effect of Cerium (IV) oxide on Physico-Chemical Properties of Aluminum Based Sacrificial Anode”**, 1<sup>st</sup> National Conference on Metallurgy and Materials (NCMM-15), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (March 25, 2015)
- ✦ M. Ishaque Abro, M. Hayat Jokhio, Umair Aftab, Riaz Ahmed Memon and Inamullah Maitlo **“Effect of Effective Case Depth and Microstructure on Torsional Strength of SAE1040 Steel”**, 1<sup>st</sup> National Conference on Metallurgy and Materials (NCMM-15), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (March 25, 2015)
- ✦ Shafique Ahmed, M. Moazam Baloch, M. Ishaque Abro and Umair Aftab **“High Temperature Creep Rate Measurement of Advanced Steel”**, 1<sup>st</sup> National Conference on Metallurgy and Materials (NCMM-15), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (March 25, 2015)
- ✦ Ahsen Khan, M. Ishaque Abro, Muhammad Hassan and Umair Aftab **“Selective Flocculation Studies on Hematite-Quartz System in Presence of Polyvalent Metal-Ions”**, 1<sup>st</sup> National Conference on Metallurgy and Materials (NCMM-15), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (March 25, 2015)
- ✦ Umair Aftab, M. I. Abro, Moazam Baloch and M. H. Jokhio **“Development of Aluminium-Ceria Composite by Using Stir Casting”**, 5<sup>th</sup> International Foundry Congress & Exhibition (IFCE) organized by Pakistan Foundry Association on Dec 2-3, 2014 at Faletti’s hotel Lahore, Pakistan.
- ✦ Umair Aftab, M. I. Abro, Khanji Harijan, M. Moazam Baloch, M. Aqeel Bhutto and Fayaz Hussain **“Effect of Ceria on MIC Susceptibility of Aluminium-Zinc Sacrificial Anode”**, 2<sup>nd</sup> International Conference on Energy, Environmental and Sustainable Development (EESD 2012), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (February 27 – 29, 2012)
- ✦ Inamullah Maitlo, M. I. Abro, M. Moazam Baloch and Umair Aftab, **“An Attempt to Minimize Environmental Degradation by Optimizing C.P. Corrosion System”**, 2<sup>nd</sup> International Conference on Energy, Environmental and Sustainable Development (EESD

2012), Mehran University of Engineering and Technology, Jamshoro, Pakistan. (February 27 – 29, 2012)

#### **REVIEWER AND COMMITTEES MEMBER:**

- # Reviewer of Journal **“Materials Science & Engineering A”**
- # Member of Editorial Board, Printing and Publication and Media Committee, Conference Hall and Stage Committee **“1<sup>st</sup> International Conference on Advanced Materials and Processing (ICAMP-17)”**, Mehran University of Engineering and Technology, Jamshoro, Pakistan, Feb 28-March 2, 2016
- # Member of Editorial Board, Technical Review Committee, Printing, Publication and Media Committee **“2<sup>nd</sup> National Conference on Metallurgy and Materials (NCMM-16), Mehran University of Engineering and Technology, Jamshoro, Pakistan”**, Mehran University of Engineering and Technology, Jamshoro, Pakistan, August 11, 2016.
- # Advisory and Reviewer Board Committee in **“2<sup>nd</sup> International Workshop on Material Science and Engineering (IWMSE-2015), Istanbul, Turkey”**, September 12-13, 2015
- # Member of Editorial Board, Technical Review Committee, Printing, Publication and Media Committee **“1<sup>st</sup> National Conference on Metallurgy and Materials (NCMM-15), Mehran University of Engineering and Technology, Jamshoro, Pakistan”**, Mehran University of Engineering and Technology, Jamshoro, Pakistan, March 25, 2015.

#### **LANGUAGES:**

- # English
- # Urdu
- # Sindhi

#### **COMPUTER SKILLS:**

- # Windows XP/98 /7/8
- # M.S Office (Excel, PowerPoint & Word)
- # MATLAB
- # C++ Programming.

#### **PERSONAL TRAITS:**

- # Enjoy working in a team devoted to the company's objectives & have experience in Leadership role.
- # Detailed oriented as well as focused on overall objective.
- # Have a positive attitude towards all kind of opportunities and challenges.