

# ENGR. PROF. DR. HAFIZ. MUHAMMAD ANWAAR ASGHAR

Institute of Chemical Engineering & Technology,

University of the Punjab, Lahore

enr.anwaar.icet@pu.edu.pk

director.pnd@pu.edu.pk



Office: + 92 42 99230053

Mobile: + 92 3214771296

## PROFESSIONAL APPOINTMENTS

- **Professor** of Chemical Engineering at University of the Punjab, Lahore since **January 28, 2018** to date
- **Director Planning & Development**, University of the Punjab, Lahore since **September 4, 2019**
- **Project Director**, Pothohar campus, University of the Punjab, Lahore since **August 9, 2023**
- **Departmental Controller of Examinations** at the Institute of Chemical Engineering & Technology, University of the Punjab, Lahore from **March 02, 2012, to September 4, 2019**
- **Associate Professor** at University of the Punjab, Lahore since **May 28, 2016, to January 27, 2018**
- **Assistant Professor** at University of the Punjab since **June 6, 2011, to May 27, 2016**
- **Research Associate** at the Arvia Technology Pvt. Ltd. UK, since **February 14, 2008, to June 1, 2011**
- **Lecturer** University of the Punjab, Lahore since **January 06, 2003, to February 13, 2008**
- **Shift Engineer** (Polymer Plant) at Rupali Polyester Pvt. Ltd. Lahore since **August 1, 2001, to January 4, 2003**

EDUCATION			
2011	<b>PhD</b>		The University of Manchester, Manchester UK
2007	<b>MSc. Engg.</b>	1 <sup>st</sup> Division	ICET, University of the Punjab, Lahore, Pakistan
2001	<b>BSc. Engg.</b>	1 <sup>st</sup> Division	ICET, University of the Punjab, Lahore, Pakistan
1995	<b>FSc.</b>	1 <sup>st</sup> Division	BISE, Lahore, Pakistan
1992	<b>Matriculation</b>	1 <sup>st</sup> Division	BISE, Lahore, Pakistan

## APPROVED RESEARCH GRANTS & PROJECTS LEADING TO MSc & PhD PROGRAMS

### PhD Projects Supervision:

- Removal of amines from water using adsorption and electrochemical regeneration, PhD research project (in process)
- Enzymatic production of bioethanol using pretreated biomass (in process)
- Development and characterization of ethylene vinyl acetate films with improved thermal, mechanical and barrier properties for applications in solar cells (in process)
- Development of novel mixed matrix membranes for the removal of refractory organic compounds from wastewater (in process)
- Design and comparative performance of an-aerobic baffled reactor and an-aerobic filter for municipal wastewater treatment (in process)

### MSc Projects Supervision:

- Removal of Acephate from water using adsorption and electrochemical regeneration
- Kinetic modelling for the adsorption of organic pollutants onto graphite-based adsorbent
- Development of synthetic fiber using bamboo

- Synthesis and characterization of polyester polyols
- Kinetic and equilibrium studies of adsorption of dyes from aqueous solution onto low cost agricultural-based rice husk activated carbon.
- Electrochemical oxidation of crystal violet dissolved in aqueous solution using solar energy.
- Removing hardness from distiller wastewater of soda ash industry by utilizing carbonating towerwaste gases
- Investigation of operating parameters for the synthesis of fuel derived from scrap tyre pyrolysis
- Energy and economic analysis of LPG recovery from natural gas (optimization through simulation)
- Production of biogas using waste biomaterials (An approach towards sustainability & renewability). Approved research grant of 0.15 million for the fiscal year 2017-2018
- Synthesis of biogas from food and garden waste materials, (Sustainable & Renewable) Approved research grant of 0.15 million for the fiscal year 2016-2017
- Removing hardness from distiller wastewater of soda ash industry by utilizing carbonating towerwaste gases
- Direct electrochemical oxidation of crystal violet solution using electricity produced from a solar cell (in process)
- Use of solar energy for wastewater treatment through adsorption coupled with electrochemical regeneration
- Use of solar energy for direct electrochemical oxidation of dissolved organic pollutants in aqueous solution, research grant of 0.15 million for the fiscal year 2015-2016
- Exploitation of solar energy for wastewater treatment using adsorption and electrochemical regeneration, research grant of 0.15 million for the fiscal year 2015-2016
- Electrochemical desalination for wastewater treatment, grant of 0.15 million rupees during the fiscal year 2014-2015
- Electrochemical oxidation of Congo-red dye, grant of 0.15 million rupees during the fiscal year 2014-2015
- Electrochemical oxidation of dissolved organic compounds in water against the allocation of research grant of 0.15 million rupees during the fiscal year of 2013-2014
- 7 Synthesis of electrically conducting CNTs for wastewater treatment applications against allocation of research grant of 0.15 million rupees during the fiscal year of 2013-2014
- Development of electrically conducting PANI coated fibrous adsorbent for water treatment using adsorption and electrochemical regeneration against the allocation of research funding of 0.15 million rupees during the fiscal year 2012-2013
- Design and Fabrication of three phase inverse fluidized bed reactor against the allocation of research grant of 0.1 million rupees during the fiscal year 2005-2006
- Hydrodynamic study of three phase inverse fluidized bed reactor during the fiscal year 2005-2006

### **POST- GRADUATE & UNDERGRADUATE TEACHING ASSIGNMENTS**

- Undergraduate teaching: Transport Phenomenon, Material & Energy Balance, Chemical Engineering Thermodynamics, Plant Design, Fuel Engineering, Instrumentation & Process Control and Fundamentals of Heat Transfer
- Postgraduate teaching: Advanced Transport Phenomenon & Analytical Techniques in C.E.

## RESEARCH AREAS

- Wastewater treatment through adsorption phenomenon
- Electrochemical oxidation for wastewater treatment process
- Adsorption phenomenon in gas cleaning processes
- Development of nanomaterials and their characterization

## AWARDS & HONOURS

- Received an **appreciation letter issued by the Speaker, National Assembly of Pakistan** in recognition of services extended for the establishment of Pothohar campus of Punjab University with an aim of providing higher education facilities to the citizens of Pakistan at their door step.
- Participated as **subject expert** in the **selection board** for the appointment of Assistant & Deputy Directors and Director P&D, University of Home Economics, Lahore and Pakistan Institute of Fashion and Design, Lahore
- Higher Education Commission's (HEC's) approved supervisor for Post Graduate Research Projects
- First and corresponding author for more than 12 research articles and 5 full length conference proceeding papers
- Chaired international conference session organized in 2016 at the University of New Castle,
- **AUSTRALIA**
- Developed research collaboration with the Arvia Technology Ltd. for **UK-PAKISTAN** Joint research projects (PhD on-going project designed and is under review process)
- Developed research collaboration with a research group working at Chemical Engineering Department, University Teknologi Petronas, **(MALAYSIA)**
- Developed research collaboration with a research group working at School of Materials Science and Engineering, Jiangxi University of Science and Technology, Ganzhou, **(CHINA)**
- Postgraduate research scholarship (2008-2011) awarded by the University of Manchester, **UK** (availed)
- Postgraduate research funding (2008-2011) awarded by the Arvia Technology Ltd. **UK** (availed)
- Postgraduate research scholarship (2007-2010) awarded by the University of Auckland, **NEWZEALAND** (declined)
- Postgraduate research scholarship (2007-2010) awarded by the University of Petronas, **MALAYSIA** (declined)

## MEMBER OF PROFESSIONAL & UNIVERSITY STATUARY BODIES

- Member of Pakistan Engineering Council since 2001
- Member of Academic Council, University of the Punjab, Lahore since 2018
- Member of disciplinary committee at the Institute of Chemical Engineering & Technology, Punjab University, Lahore
- Member Semester Implementation Committee, University of the Punjab, Lahore since 2018.
- Member board of studies at the Institute of Chemical Engineering & Technology, Punjab University, Lahore
- Member board of faculty at the Institute of Chemical Engineering & Technology, Punjab University, Lahore
- In-charge Examinations for undergraduate and post graduate academic programs at ICET, PU.Lahore
- Member of Examination Committee at the Institute of Chemical Engineering & Technology, Punjab University, Lahore
- Member of quality enhancement cell (QEC) at ICET, Punjab University. Lahore

## TRAININGS / SHORT COURSES ATTENDED

- Faculty training program for core modules, professional ethics, management & grooming assessment & evaluation held at University of the Punjab, Lahore, Pakistan from **4<sup>th</sup> to 8<sup>th</sup> February 2013**
- Training on advanced instrumental and spectroscopic techniques applied to electro-catalysis held at the University of Bangor, UK from **14<sup>th</sup> to 16<sup>th</sup> September 2009**
- Training program on resource materials / modules for higher education teacher held at the University of Education, Lower Mall Campus during **4<sup>th</sup> to 16<sup>th</sup> April 2005**
- Two weeks faculty training program held at the Institute of Administrative Sciences, Punjab University, Lahore in **July, 2003**
- Four weeks training on **ISO 9000** held at the Institute of Chemical Engineering & Technology, Punjab University, Lahore from **15<sup>th</sup> June to 14<sup>th</sup> July 2000**
- One-month Industrial training at Dawood Hercules Fertilizer Pvt. Ltd.

## PEER REVIEWED INTERNATIONAL / ISI / WEB OF SCIENCE INDEXED JOURNAL ARTICLES

### (2023)

- S. M. S. Hussain, S. N. Hussain, **H. M. A. Asghar** & H. Sattar (2023). Degradation of aniline and para-chloroaniline from water by adsorption coupled with electrochemical regeneration. ASEAN Journal of Chemical Engineering, Vol. 23, No. 2 255-269
- T. Ahmad, J. Iqbal, M. A. Bustam, M. Baber, M. B. Tahir, M. Sagir, M. Irfan, **H. M. A. Asghar**, A. Hassan, A. Riaz, L. F. Chuah, A. Bokhari, M. Mubashir & P. L. Show (2023). Performance evaluation of phosphonium based deep eutectic solvents coated cerium oxide nanoparticles for CO<sub>2</sub> capture. Journal of Environmental Research. 222 (115314)

### (2022)

- T. Ahmad, M. A. Bustam, H. Suleman, M. Irfan, J. Iqbal & **H. M. A. Asghar** (2021). Quantitative Estimation of bio-capped surface chemistry driven interparticle interactions and growth kinetics of gold nanoparticles. Journal of Cluster Science. Vol. 33. PP. 557-565

### (2021)

- M. M. Khan, **H. M. A. Asghar**, H. Saulat, M. Chawla, S. Rafique, M. M. Khan, W. Y. Jie, M. Aslam & A. Mukhtar (2021). Hazardous wastewater treatment by low-cost sorbent with in-situ regeneration using hybrid solar energy electrochemical system. Journal of Water Environment Research, 93(9) 1554-1561. <https://doi.org/10.1002/wer.1537>
- T. Ahmad, J. Iqbal, M. A. Bustam, M. Irfan & **H. M. A. Asghar** (2021). A critical review on photosynthesis of gold nanoparticles: Issues, Challenges and Future Perspectives. Journal of Cleaner Production. <https://doi.org/10.1016/j.clepro.2021.127460>

### (2020)

- **H. M. A. Asghar**, T. Ahmad, F. Raza, S. N. Hussain, H. Sattar & M. Tahir (2020). An efficient approach for the separation of acetate from aqueous solution using a novel surface modified adsorbent and its electrochemical regeneration. Journal of Separation Science & Technology. Accepted for publication.

### (2019)

- **H. M. A. Asghar**, S. N. Hussain, N. W. Brown and E. P. L. Roberts (2019). Comparative adsorption-regeneration performance for newly developed carbonaceous adsorbent. Journal of industrial & Engineering Chemistry (2019). Volume 69, pp. 90-98.

- T. Ahmad, M. A. Bustam, M. Irfan, M. Moniruzzaman, **H. M. A. Asghar**, S Bhattacharjee (2019). Mechanistic investigation of phyto-chemicals involved in green synthesis of gold nanoparticles using aqueous *Elaeis guineensis* leaves extract: Role of phenolic compounds and flavonoids. *Journal of Biotechnology and Applied Biochemistry*. Volume 66 (4), pp. 698-708.
- T. Ahmad, M. A. Bustam, M. Irfan, J. iqbal, N. Muhammad, M. F. R. Samsudin, M. Moniruzzaman, **H. M. A. Asghar**, M. Irfan and S. Bhattacharjee (2018). The effect of gold and iron nanoparticles on photocatalytic behavior of titanium dioxide towards 1-Butyl-3-methylimidazolium chloride ionic liquid (2019). *Journal of Molecular Liquids*. Volume 291, pp. 1112277.

#### **(2018)**

- T. Ahmad, M. A. Bustam, M. Irfan, M. Moniruzzaman, **H. M. A. Asghar**, S Bhattacharjee (2018). Quantitative growth evolution of gold nanoparticles synthesized using aqueous *Elaeisguineensis*(oil palm) leaves extract. *Journal of Materials Chemistry and Physics*. Vol. 220, pp. 240-248.
- T. Ahmad, M. A. Bustam, M. Irfan, M. Moniruzzaman, **H. M. A. Asghar**, S Bhattacharjee (2018). Green synthesis of stabilized spherical shaped gold nanoparticles using novel aqueous *Elaeisguineensis* (oil palm) leaves extract. *Journal of Molecular Structure*, Vol. 1159 pp 167-173
- T. Ahmad, M. A. Bustam, M. Irfan, M. Muniruzzaman, **H. M. A. Asghar** and S. Bhattacharjee (2018). Effect of volume of gold chloroauric acid on size, shape and stability of biosynthesized AuNPs using aqueous *Elaeisguineensis*(oil palm) leaves extract. *International journal of automotive and mechanical engineering*, Vol. 15, issue 1 pp 5135—5145
- T. Ahmad, S. Rehman, J. Liu, X. Zhang, M. U. Manzoor, M. H. Abbas and **H. M. A. Asghar** (2018). Characterization of epoxy-based coating reinforced with nanoparticles of silica sand. *Journal of Chinese Advanced Materials Society*. Volume 6, issue 4. pp 497-507.

#### **(2016)**

- S.N. Hussain, A.P. Trzcinski, **H. M. A. Asghar**, H. Sattar, N.W. Brown & E.P.L. Roberts (2016). Disinfection performance of adsorption using graphite adsorbent coupled with electrochemical regeneration for various micro-organisms present in water. *Journal of Industrial & Engineering Chemistry*, Vol. 44 pp 216-225.

#### **(2015)**

- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L. Roberts (2015). Potential graphite materials for the synthesis of GICs. *Journal of Chemical Engineering Communications*, Vol. 202(4) pp 508-512.
- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L. Roberts (2015). Mercaptan's removal from aqueous solution using modified graphite-based adsorbent through batch-wise adsorption- regeneration. *Journal of Chemical Engineering Communications*, Vol. 202(9) pp 1155-1160.
- **H. M. A. Asghar**, T. Ahmad, S.N. Hussain & H. Sattar (2015). Electrochemical oxidation of methylene blue in aqueous solution. *International Journal of Chemical Engineering and Applications*, Vol. 6 (5) pp 352-355
- S.N. Hussain, **H. M. A. Asghar**, H. Sattar, N.W. Brown & E.P.L. Roberts (2015). Chlorinated breakdown products formed during oxidation of adsorbed phenol by electrochemical regeneration of a graphite intercalation compound. *Journal of Industrial & Engineering Chemistry* accepted for publication.
- S.N. Hussain, **H. M. A. Asghar**, H. Sattar, N.W. Brown & E.P.L. Roberts (2015). Free chlorine formation during electrochemical regeneration of a graphite intercalation compound adsorbent used for wastewater treatment. *Journal of Applied Electrochemistry*, Vol. 45(6) pp

611-621.

- S.N. Hussain, **H.M.A. Asghar**, H. Sattar, N.W. Brown & E.P.L. Roberts (2015). Removal of tartrazine from water by adsorption with electrochemical regeneration. Journal of Chemical Engineering Communications, Vol. 202(10) pp 1280-1288.
- S.N. Hussain, **H. M. A. Asghar**, H. Sattar & E.P.L. Roberts (2015). Electrochemical regeneration of GIC adsorbent in a continuous electrochemical reactor. International Journal of Chemical Engineering and Applications, Vol. 6 (4) pp 258-261

#### **(2014)**

- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L. Roberts (2014). Improved phenol adsorption from aqueous solutions using electrically conducting adsorbents. The Korean Journal of Chemical Engineering, Vol. 31(5) pp 834-840
- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L. Roberts (2014). Electrochemically synthesized GIC-based adsorbents for water treatment using adsorption and electrochemical regeneration. Journal of Industrial & Engineering Chemistry, Vol. 20(4) pp 2200-2207
- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L. Roberts (2014). Environmentally friendly preparation of exfoliated graphite. Journal of Industrial & Engineering Chemistry, Vol. 20(4) pp 1936- 1941.
- **H. M. A. Asghar**, S.N. Hussain, N.W. Brown & E.P.L. Roberts (2014). Synthesis of electrically conducting adsorbents for waste-water treatment using adsorption and electrochemical regeneration. Journal of Industrial & Engineering Chemistry, Vol. 20(3) pp 781-786.
- S.N. Hussain, N. D. Heras, **H. M. A. Asghar**, N.W. Brown & E.P.L. Roberts (2014). Electrochemical regeneration of various graphitic adsorbents in an air agitated sequential batch reactor. Journal of Chemical Engineering & Science, Vol. 2(2) pp 24-29.
- S.N. Hussain, N. D. Heras, **H. M. A. Asghar**, N.W. Brown & E.P.L. Roberts (2014). Disinfection of water by adsorption combined with electrochemical treatment. Journal of Water Research, Vol. 54 pp 170- 178.

#### **(2013)**

- **H. M. A. Asghar**, S.N. Hussain, E.P.L. Roberts & N.W. Brown (2013). Removal of humic acid from water using adsorption coupled-with electrochemical regeneration. The Korean Journal of Chemical Engineering, Vol. 30(7) pp 1415-1422.
- **H. M. A. Asghar**, S.N. Hussain, E.P.L. Roberts, A. K. Campen & N.W. Brown (2013). Pretreatment of adsorbent for wastewater treatment using adsorption coupled with electrochemical regeneration. Journal of Industrial & Engineering Chemistry, Vol. 19(5) pp 1689-1696.
- S.N. Hussain, **H. M. A. Asghar**, A. K. Campen, N.W. Brown & E.P.L. Roberts (2013). Breakdown products formed due to oxidation of adsorbed phenol by electrochemical regeneration of a graphite adsorbent. Journal of Electrochimica Acta, Vol. 110 pp 550-559.
- S.N. Hussain, E.P.L. Roberts, **H.M.A. Asghar**, A.K.Campen & N.W. Brown (2013). Oxidation of Phenol and the adsorption of breakdown products using a graphite adsorbent with electrochemical regeneration. Journal of Electrochimica Acta, Vol. 92 pp. 20-30.

#### **(2012)**

- **H. M. A. Asghar**, E.P.L. Roberts, S.N. Hussain, A.K.Campen & N.W. Brown (2012). Wastewater treatment by adsorption with electrochemical regeneration using graphite-based adsorbents. Journal of Applied Electrochemistry, Vol. 42(9) pp 797-807.
- M.G. Conti-Ransden, **H. M. A. Asghar**, S.N. Hussain, E.P.L. Roberts & N.W. Brown (2012). Removal of mercaptans from a gas stream using continuous adsorption-regeneration. Water Science & Technology, Vol. 66(9) pp 1849-1855.

- Arshid M. Ali, Ayaz Muhammad, Amir Shafeeq, **H. M. A. Asghar**, Syed N. Hussain \& Hamid Sattar (2012). Doped Metal Oxide (ZnO) and Photocatalysis: A Review. Journal of Pakistan Institute of Chemical Engineers, Vol. 40(1) PP 12-22.

#### (2011)

- M.R. Usman, S.N. Hussain, **H. M. A. Asghar**, H. Sattar & A. Ijaz (2011). Liquid-liquid extraction of acetic acid from an aqueous solution using a laboratory scale sonicator. Journal of Quality and Technology Management, Volume 7(2) pp 115-121.

#### (2009)

- M.R. Usman, H.Sattar, S. N. Hussain, **H. M. A. Asghar** & W. Afzal (2009). Drop size in liquid pulsed sieve- plate extraction column. Brazilian Journal of Chemical Engineering, Vol. 26(4) pp 677-687.

#### (2008)

- S.S. Daood, A. Ijaz, **H. M. A. Asghar**, M. Ali & M.A. Butt (2008). Stability comparison of concentric tube bulb manometer with conventional U--shaped manometer. Measurement, Vol. 41(8) pp 934-939.

#### (2006)

- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, A. Chughtai & M.A. Butt (2006). Hydrodynamic study of three phase inverse fluidized bed. Journal of Faculty of Engineering and Technology, University of the Punjab, Lahore, Pakistan.
- H. Sattar, S.N. Hussain, **H. M. A. Asghar**, A. Chughtai & M.A. Butt (2006). Production and characterization of activated carbon from indigenous coal (Lakhra Coal). Journal of Faculty of Engineering and Technology, University of the Punjab, Lahore, Pakistan.

### PEER REVIEWED INTERNATIONAL CONFERENCE FULL LENGTH PROCEEDING PAPERS

#### (2015)

- **H. M. A. Asghar**, T. Ahmad, S.N. Hussain & H. Sattar (2015). Electrochemical oxidation of methylene blue in aqueous solution. International Journal of Chemical Engineering and Applications, Vol. 6 (5) pp 352-355
- S.N. Hussain, **H. M. A. Asghar**, H. Sattar & E.P.L. Roberts (2015). Electrochemical regeneration of GIC adsorbent in a continuous electrochemical reactor. International Journal of Chemical Engineering and Applications, Vol. 6 (4) pp 258-261

#### (2013)

- **H. M. A. Asghar**, S.N. Hussain, E.P.L. Roberts, N.W. Brown & H. Sattar (2013). GIC-based adsorbents for waste-water treatment through adsorption & electrochemical regeneration. International Journal of Environmental, Earth Science and Engineering, Vol. 7 (9) pp 600-602
- S.N. Hussain, **H. M. A. Asghar**, E.P.L. Roberts, N.W. Brown & H. Sattar (2013). Formation of by- products during regeneration of various graphitic adsorbents in a batch electrochemical reactor.
- International Journal of Environmental, Earth Science and Engineering, Vol. 7 (9) pp 338-341

#### (2012)

- **H. M. A. Asghar**, S.N. Hussain, E.P.L. Roberts, N.W. Brown & H. Sattar (2012). Development of composite adsorbents for wastewater treatment using adsorption and electrochemical regeneration. World Academy of Science Engineering & Technology, Vol. 6 pp 1134-1137

- S.N. Hussain, **H. M. A. Asghar**, E.P.L. Roberts, & N.W. Brown (2012). Disinfection of water by adsorption with electrochemical regeneration. World Academy of Science Engineering & Technology, Vol. 6 pp 1775-1777

#### **(2010)**

- **H. M. A. Asghar**, S. N. Hussain, E. P. L. Roberts, A. K. Campen & N. W. Brown (2010). Improved dye adsorption for water treatment using the Arvia Process. First International Water Quality Conference held at Leeds, UK, during 23--24 June.

### **ORAL PRESENTATIONS / INTERNATIONAL CONFERENCE PROCEEDINGS**

#### **(2017)**

- **H. M. A. Asghar** & S. Khan. Thermal analysis of Pakistani coal and biomass. International research conference on sustainable energy, engineering, materials and environment, 26 – 28<sup>th</sup> July, 2017, Northumbria University, New Castle upon Tyne, **UNITED KINGDOM**
- T. Ahmad, M. A. Bustam, M. Irfan, M. Moniruzzaman, **H. M. A. Asghar** & S. Bhattacharjee. Study on effect of volume of gold Chloroauric acid on size, shape and stability of biosynthesized gold nanoparticles using aqueous *Elaeisguineensis* (oil palm) leaves extract. International stem engineering conference 2017. Organized by the University of Malaysia Sarawak (UNIMAS) 13 – 15 September 2017. **MALAYSIA**

#### **(2016)**

- **H. M. A. Asghar**, H. A. Ahmad, S. N. Hussain and H. Sattar (2016). Electrochemical potential for destruction of Congo-red Dye in aqueous solution. 9<sup>th</sup> International conference on environmental catalysis, 10<sup>th</sup> to 13<sup>th</sup> July, New Castle, **AUSTRALIA**

#### **(2015)**

- **H. M. A. Asghar**, M. Mirza, K. Mehmood, H. Sattar, and S.N. Hussain (2015). Beneficiation of Chamalang Coal by froth floatation. International conference on advances in environmental research (ACAER, 2015) Jeju Island, Republic of **KOREA**
- A.H. Khan & **H. M. A. Asghar** (2015). Removal of 1,2-Dichloroethane from water using advanced oxidation process. Digital i-poster presentation at MEPEC held at Bahrain International Exhibition and Convention center, Kingdom of Bahrain from 15<sup>th</sup> to 17<sup>th</sup> September. **BAHRAIN**

#### **(2014)**

- **H. M. A. Asghar**, S.N. Hussain & H. Sattar (2014). Electrochemical oxidation of methylene blue in aqueous solution. International conference on chemical science & engineering (ICCSE) held on December 27-28, 2014, at Phuket, **THAILAND**

#### **(2013)**

- E. P. L. Roberts, S. N. Hussain, Nuria De Las, **H. M. A. Asghar** & N. W. Brown (2013). Disinfection of water by adsorption combined with electrochemical treatment. AIChE annual meeting, November 3-8, 2013, San Francisco **USA**
- **H. M. A. Asghar**, S.N. Hussain, H. Sattar, N.W. Brown & E.P.L. Roberts (2013). GIC-based adsorbents for waste-water treatment through adsorption & electrochemical regeneration. International Conference on Environmental Management and Engineering, September 12-13, 2013, Singapore. Organized by World Academy of Science, Engineering & Technology (WASET) **SINGAPORE**

#### **(2012)**

- **H. M. A. Asghar**, S.N. Hussain, E.P.L. Roberts, & N.W. Brown (2012). Development of Composite Adsorbent for Wastewater Treatment using Adsorption and Electrochemical



Regeneration. International Conference on Environmental Sciences and Engineering held during 24-25 December, Phuket, Thailand. It was organized by World Academy of Science, Engineering & Technology (WASET). **THAILAND**

- **H. M. A. Asghar**, E.P.L. Roberts, & N.W. Brown (2012). Wastewater treatment using adsorption and electrochemical regeneration. First International Conference on Engineering Sciences, held during 27-28 February, University of the Punjab, Lahore, **PAKISTAN**.

#### **(2011)**

- M.G. Conti--Ramsdon, **H. M. A. Asghar**, E.P.L. Roberts, S.N. Hussain & N.W. Brown (2011). The removal of mercaptans from a gas stream using continuous adsorption--regeneration. Fourth IWA conference on ODOURS and VOCS, held at Vitoria, Brazil, during 17--21 October. **BRAZIL**
- E.P.L. Roberts, S.N. Hussain, **H. M. A. Asghar**, F.M. Mohammed, M. Conti-Ramsdon, A.K. Campen and N.W. Brown (2011). Water treatment by adsorption and electrochemical regeneration. 9th ESEE European Symposium on Electrochemical Engineering, 19--23 June, Chania, **GREECE**

#### **(2010)**

- **H. M. A. Asghar**, S. N. Hussain, E. P. L. Roberts, A. K. Campen & N. W. Brown (2010). Improved dye adsorption for water treatment using the Arvia Process. First International Water Quality Conference held at Leeds, UK, during 23--24 June. **UK**
- E. P. L. Roberts, S. N. Hussain, **H. M. A. Asghar**, F. M. Mohammed, M. C. Ramsden, N. W. Brown & A. K. Campen (2010). Water treatment by adsorption with electrochemical regeneration. 10th AIChE annual meeting held on November 7-12, at Salt Lake City, **USA**
- S. N. Hussain, E.P.L. Roberts, **H. M. A. Asghar**, A.K. Campen & N.W. Brown (2010). Fate of adsorbed species during electrochemical regeneration of a graphite adsorbent. International conference on Electrochemistry and Sustainability, held at the University of Wolverhampton, Telford campus, UK, during 14--15 September. **UK**
- **H. M. A. Asghar**, E.P.L. Roberts, A.K. Campen & N.W. Brown (2010). Development of novel carbon- based adsorbents for water treatment using the Arvia Process (part III). International postgraduate conference held at the University of Manchester, UK, on 9 of June. **UK**

#### **(2009)**

- **H. M. A. Asghar**, E.P.L. Roberts, A.K. Campen & N. W. Brown (2009). Development of novel carbon- based adsorbents for water treatment using the Arvia Process (part II). International conference on Electrochem 09 held at the University of Manchester, UK, during 16--17 September. **UK**
- **H. M. A. Asghar**, E.P.L. Roberts, A.K. Campen & N. W. Brown (2009). Development of novel carbon- based adsorbents for water treatment using the Arvia Process (part I). International postgraduate conference held at the University of Manchester, UK, on 16 of June. **UK**

#### **COUNTRIES VISITED FOR ACADEMIC AND RESEARCH PURPOSE**

- UK
- THAILAND
- SINGAPORE
- MALAYSIA
- SOUTH KOREA
- UAE
- AUSTRALIA
- TURKEY

#### **REFERENCES**