

Dr.-Ing. Syed Mushahid Hussain Hashmi

Professor / Chairman

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Academic Qualification:

(In chronological order)

Ph.D., *Mechanical* (Thermal Modeling of PEM Fuel Cell), Helmut Schmidt University, University of Federal Armed Forces Hamburg, Germany, March 2010.

M.Sc., *Mechanical* (Energy Systems), NED University of Engineering & Technology, 2001

B.E, *Mechanical*, NED University of Engineering & Technology, 1997

Experience:

March 2011-To date: **Professor**, Dept of Automotive & Marine Engineering, NED University of Engineering & Technology.

April 2010- March 2011: **Associate Professor**, Dept of Automotive & Marine Engineering, NED University of Engineering & Technology.

July 2003- March 2010: **Assistant Professor**, Dept. of Mechanical Engineering, NED University of Engineering & Technology.

May 2002- July 2003: **Laboratory Engineer**, Dept. of Mechanical Engineering, NED University of Engineering & Technology.

July 1997- October 1999: **Quality Assurance Engineer**, Trans Mobile Ltd, Bin Qasim, Karachi

Jan 1997- July 1997: **Trainee Engineer**, Lakson Tobacco Co. Ltd. Korangi, Karachi

Professional Membership:

Life Member PEC , **MECH/13221**

Member Selection Board, Advanced Studies and Research Board, DHA Suffa University, Karachi.

Member BOS, Pakistan Marine Academy, Karachi

Member Steering committee of DICE Automotive, USA.

Member of the team of "Technology Foresight of Automotive Industry of Pakistan" by PCST, Islamabad, 2017.

Honors & Awards: (if any)

"**Sehr Gut**" Grade in PhD, 2010

PhD Scholarship for Germany, 2006 from NEDUET

Conference, Presentation & Course Attended: (if any)

Attended 5 Days Workshop on "**Vacuum Science and Technology**" (WVST-05) held at NINVA, Islamabad 20-24 Dec 2010

Attended a Seminar on "**Vacuum Control and Measurement' (SVST-09)**" organized by National Institute of Vacuum Science &

Technology, Islamabad on June 21, 2011.

Attended Short Course on “**Nuclear Reactor Thermal Hydraulics**”, 22-24 May 2012, PIEAS, and Islamabad.

Attended 5 days workshop on “**Leadership and Change Management**” at IBA Karachi in collaboration with HEC, 4-7 May 2015

Attended 2 days International Workshop on “**Outcome Based Education system**” 27-28 October 2015, NED Karachi.

Attended three day workshop on **SPP Act. 2009 & SPP Rules 2010** from 31st May to 2nd June 2016.

Participated in “**SE Michigan Technology transfer program of CLDP**” at USA (Washington and Michigan) from 4-14th October 2016. Program includes training in USPTO for patent and trademark and visit of Rogue Ford Motor complex and technology transfer offices of three universities in Michigan.

Publications:

Cooling Strategies for PEM FC Stacks, by **Hashmi, S. M. H**, *PhD Dissertation*, Helmut-Schmidt-Universität, Hamburg.
(Electronic Resource available at Deutsche National Bibliothek: <http://d-nb.info/1001185463>)

Hashmi, S. M. H. and Kabelac, S., “Temperature distribution in PEM-FC stacks -experimental and theoretical”, *International Conference Hydrogen & Fuel cells*, In CD ed., Vancouver BC, Canada, 2009.

Amber Fishan Zafar, **S.M.H. Hashmi**, “First Fuel Cell Powered Vehicle of Pakistan-A Case Study”, presented at International Conference on Energy Systems Engineering (ICESE-2010), October 2010, Islamabad

Muzzaffar Mahmood , **S.M.H. Hashmi** , “Fuel Cell Technology and its Applications-Pakistan’s Perspective”, 2nd International Conference on Energy, Environment & Sustainable Development (EESD2012), MUET Jamshoro, Pakistan, February 27-29, 2012

S. M. H. Hashmi, H.M. Iqbal, S.H. Hassan, “Engine performance and emission comparison of gasoline and E10 fuels using the spark ignition engine at part and full load condition”, Proceeding of Conference on Energy and Sustainability, NED University of Engineering & Technology, Karachi, Pakistan, April 27, 2013.

Amber Fishan Zafar and **S. M. H. Hashmi**, Numerical Simulation of Proton Exchange Membrane Fuel Cell, Proceeding of Conference on Energy and Sustainability, NED University of Engineering & Technology, Karachi, Pakistan, April 27, 2013.

Obaid ur Rehman , **S. M. H. Hashmi**, and Inayat Ullah Memon, “Numerical Investigation of the effect of thermal conductivity and porosity of gas diffusion layer on performance of PEMFC” Conference on Advanced Materials & Process Engineering, NED Karachi, December 14-15, 2015.
