

# **Dr.SAUD HASHMI**

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## **Professional Profile**

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- Assistant Professor offering 8 years of teaching experience in the Department of Chemical and Polymer & Petrochemical Engineering. In-house trainings and attend various lectures on teaching tools.
- Shift Engineer with more than 2 years of experience. Monitoring & optimization of plant parameters to achieve production target with best conversion efficiencies. Monitored plant performance against approved targets on a day-to-day basis and identified existing or potential technical problems.

## **Experience**

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<b><u>NED University of Engineering &amp; Technology, Karachi, Pakistan</u></b> <i>Assistant Professor</i> <i>Department of Chemical Engineering.</i>	2009 to Present
<b><u>PAKISTAN PTA LIMITED (A UNIT OF ICI WORLDWIDE GROUP)</u></b> <i>Shift Engineer</i> <i>Responsible for Plant Operation</i>	2007 to 2009

## **Seminars / Workshops**

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1. Seminar on "Awareness of Occupational Safety & Health", at NEDUET, Aug, 2015.
2. Workshop on Developing Industry Driven Technologies, at NEDUET January 05, 2015.
3. HEC Indigenous on campus training on "Good Governance in Higher Education", 25-29 Aug, 2014.
4. Advancement in solar cell technology at Chonbuk National University South Korea, 2011.
5. Hydrogen Technologies – Market presentations at NED UET, 2010.
6. Air quality and global warming workshop at NED UET, 2010.
7. Bio-diesel Alternative fuel for the present and future at NED UET, 2010.
8. Technological advances for treating oily production at NED UET, 2009.

## **International / National Conference Contributions**

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1. Muhammad Mohsin Yusufi, **Hashmi S** "Carbon Nanotubes Laced Superabsorbent Polymer for Enhanced Oil Recovery Technology", 1st International Conference on Advance Materials and Process Engineering, At NEDUET, Karachi, Pakistan Dec-2015.

2. **Hashmi S**, "Production of Biodiesel by Reactive Distillation Simulation Studies Using ASPEN Plus", 5th International Mechanical Engineering Congress, at The Institution of Engineers Pakistan, May, 2015.
3. **Hashmi S**, GhavamiNejad A, Obiweluzor, Stadler FJ, "Rheological Active Self-associating Supramolecular System of NIPAM-based Zwitterion Copolymer Solutions", Annual European Rheology Conference, Leuven, Belgium, 2013.
4. **Hashmi S**, GhavamiNejad A, Obiweluzor F, Vatankhah-Varnoosfaderani M, Stadler FJ, "Supramolecular pH-triggered Reversible Foamed Gel - the Surprising Effect of Water", POLYCHAR 21 World Forum on Advanced Materials, Gwangju, Republic of KOREA, 2013.
5. **Hashmi S**, Obiweluzor F, GhavamiNejad A, Vatankhah-Varnoosfaderani M, Stadler FJ, "Understanding the Swelling and Rheological Properties of NIPAM-Based Hydrogels Containing Zwitterions and MWCNTs", Meeting of the Korean Society of Rheology, Seoul, 2012.
6. **Hashmi S**, Obiweluzor F, Stadler FJ "Influence of Zwitterionic Monomer on the Rheology of NIPAM-based Copolymer Solutions", Fall Meeting of the Korean Society of Rheology, Jinju South Korea, 2012.

### International Journal Publications

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1. **Hashmi S**, GhavamiNejad A, , Mohammad Vatankhah-Varnoosfaderani, Florian J. Stadler "Effect of H<sub>2</sub>O and reduced graphene oxide on the structure and rheology of self-healing, stimuli responsive catecholic gels" **Rheologica Acta**, Volume 55, Issue 2, pp 163–176, **February 2016 IF: 1.8**
2. Mohammad Vatankhah-Varnoosfaderani, Amin GhavamiNejad, **Hashmi S**, Florian J. Stadler "Hydrogen Bonding in Aprotic Solvents, a New Strategy for Gelation of Bioinspired Catecholic Copolymers with N –Isopropylamide", **Macromolecular Rapid Communication**, Volume 36, Issue 5, pages 447–452, **March 2015 IF: 4.6**.
3. **Hashmi S**, Mohammad Vatankhah-Varnoosfaderani, Amin GhavamiNejad, Francis O. Obiweluzor, Bing Du, Florian J. Stadler, " Self-associations and temperature dependence of aqueous solutions of zwitterionically modified N-isopropylacrylamide copolymers", **Rheologica Acta**, DOI 10.1007/s00397-015-0837-z, **February 2015 IF: 1.8**.
4. **Hashmi S**, GhavamiNejad A, Stadler FJ, " Oscillations in modulus in solutions of graphene oxide and reduced graphene oxide with grafted poly-N-isopropylamide", **Soft Matter**, **2015**, *11*, 1315-1325 **IF: 4.2**
5. G. Gnana Kumar , **Hashmi S**, C. Karthikeyan, Amin GhavamiNejad, Mohammad Vatankhah-Varnoosfaderani, Florian J. Stadler, "Carbonaceous nanocomposite hydrogels – versatile building blocks for microbial fuel cell applications", **Macromolecular Rapid Communication**, Volume 35, Issue 21, pages 1861–1865, **November 2014 IF: 4.6**
6. GhavamiNejad A, **Hashmi S**, Mohammad Vatankhah-Varnoosfaderani, Florian J. Stadler, " Network formation in graphene oxide composites with surface grafted PNIPAM chains in aqueous solution characterized by rheological experiments", **Phys. Chem. Chem. Phys.**, **2014**, *16*, 8675-8685. **IF: 3.8**
7. Francis O. Obiweluzor, Amin GhavamiNejad, **Hashmi S**, Mohammad Vatankhah-Varnoosfaderani and, Florian J. Stadler, "A NIPAM–Zwitterion Copolymer: Rheological Interpretation of the Specific Ion Effect on the LCST", **Macromolecular Chemistry and Physics**, **2014**, DOI: 10.1002/macp.201300778. **IF: 2.3**

8. Mohammad Vatankhah-Varnoosfaderani, **Hashmi S**, Amin GhavamiNejad, Florian J. Stadler, "Rapid Self-Healing and Triple Stimuli Responsiveness of a Supramolecular Polymer Gel Based on Boron-Catechol Interactions in a Novel Water-Soluble Mussel-Inspired Copolymer", **Polym. Chem.**, **2014**,*5*, 512-523 **IF: 5.4**
9. Mohammad-Vatankhah-Varnoosfaderani, Amin GhavamiNejad, **Hashmi S**, Florian J. Stadler "Mussel-Inspired pH-triggered Reversible Foamed Gel – the Surprising Effect of Water", **Chemical Communications** **2013**, 49, 41, 4685-4687. **IF: 6.3**
10. **Hashmi S**, GhavamiNejad A, Obiweluzor F, Vatankhah-Varnoosfaderani M, Stadler FJ, "Supramolecular Interaction Controlled Diffusion Mechanism and Improved Mechanical Behavior of Hybrid Hydrogel Systems of Zwitterions and CNT", **Macromolecules**, **2012**, 45 (24),pp 9804–9815. **IF: 5.5**
11. **Hashmi S**, Obiweluzor F, GhavamiNejad A, Vatankhah-Varnoosfaderani M, Stadler FJ, "On-line Observation of Hydrogels during Swelling and LCST-induced changes", **Korea-Australia Rheology Journal**, **2012**, 24, 3, 191-198. **IF:1.2**

## Education

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### **Ph.D CHEMICAL ENGINEERING**

*March 2014*

Chonbuk National University, South Korea.

### **Research Interest**

Synthesis and Rheological characterization of polymer solutions, composites and gels.

Oil absorbing gels and polymer mats.

Polymer based sensors and non-woven filters.

Graphene synthesis and Carbon based composites.

Aspen Hysys & Aspen Plus based Simulations.

Process Optimization Techniques.

### **M.E ENVIRONMENTAL**

NED University of Engineering & Technology, Karachi.

*December 2010*

### **B.E, Chemical**

Dawood College of Engineering & Technology, Karachi.

*December 2005*

## Affiliations

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Member of Pakistan Engineering Council, bearing registration no. CHEM/6907, Karachi.

2008 to Date

## Personal Information

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Date of Birth: 16<sup>th</sup> February 1984

Marital Status: Married.

Domicile: Karachi.

Languages: English, Korean (able to read, write & speak)