

# Curriculum Vitae

Name: SOHAIL MUHAMMAD

Date of Birth: FEB 22, 1984

## Education

**Aug. 2010~June 2015:** Division of Mechanical Engineering, KAIST, South Korea.

*Ph. D.*, Advanced Laser, Plasma and Hybrid Application Laboratory, Advisor Prof. Suck Joo, Na

**Jan. 2007-Aug. 2009:** Department of Materials Engineering, NEDUET, Pakistan.

*Master of Engineering (ME)*

**Dec. 2001-Feb. 2006:** Department of Industrial and Manufacturing Engineering, NEDUET, Pakistan.

*Bachelor of Engineering (BE)*

## Career

**Mar. 2007 – Jun. 2008 :** Research Assistant to Dr. Fakhir Hasanai, CMD NEDUET

Worked on Numerical study of Finned tube annulus in longitudinal flow

**Jun. 2008 - May 2010:** Lecturer Department of Materials Engineering, NEDUET, Pakistan

**May 2010 – present :** Assistant Professor Department of Materials Engineering, NEDUET, Pakistan

## Academic Activities.

### Journal Papers

1. **Sohail M**, Han S-W, Na S-J, Gumenyuk A, Rethmeier M (2014) Characteristics of weld pool behavior in laser welding with various power inputs. *Welding in the World* 58 (3):269-277. doi:10.1007/s40194-014-0112-4
2. **Sohail M**, Han S-W, Na S-J, Gumenyuk A, Rethmeier M (2015) Numerical investigation of energy input characteristics for high-power fiber laser welding at different positions. *The International Journal of Advanced Manufacturing Technology*. doi:10.1007/s00170-015-7066-6

### Conference Papers

1. **M.Sohail**, S.M.F. Hasani, "Numerical analysis of heat transfer and fluid flow in circumferential finned tube annulus in longitudinal laminar flow" , Fourth International Conference on Mathematical Models and Methods in fluid Mechanics July 7 – 9, 2008, Islamabad, Pakistan
2. **M. Sohail**, S.M.F. Hasani, "Conjugate conduction-convection analysis of finned tube annulus in longitudinal laminar flow", Proceedings of the 4th BSME-ASME International

Conference on Thermal Engineering 27-29 December, 2008, Dhaka, Bangladesh

3. M.Shakaib, S. M.F. Hasani, **M.Sohail**, "Parallel processing efficiency of computational fluid dynamics (CFD) simulations ", NAFEMS World Congress 2009, June 16 -19 , 2009 Crete, Greece
4. **M.Sohail**, A.Ali, "Grain size determination of medium carbon steel by ultrasonic velocity measurement", 11th International Symposium on Advanced Materials (ISAM-2009), 08 – 12 August, 2009, Islamabad, Pakistan
5. S.W.Han, **M.Sohail**, S.-J.Na, A.Gumenyuk, M.Rethmeier, "Characteristics of weld pool behavior in laser welding with various power inputs", 65th Annual Assembly of the International Na Suck-Joo, **Sohail Muhammad**, Han Sang-Woo, Karhu Miikka, Kujanpaa Veli Institute of Welding, Denver, United States of America, 2012, July
6. W.I. Cho, **M. Sohail**, S.J. Na, "Modeling of Keyhole Formation in Laser and Laser Arc Hybrid Welding Based on CFD Simulations", 31<sup>st</sup> ICALEO, September 22-27, 2012-Anaheim, California, USA
7. **Sohail Muhammad**, Na Suck-Joo, Gumenyuk Andrey, Rethmeier ," Role of vapor re-condensation on bead shape in high power laser welding", LAMP 2015, May 26-29, 2015, Kitakyushu, Fukuoka, Japan
8. **Sohail Muhammad**, Na Suck-Joo, Karhu Miikka, Kujanpaa Veli, "Numerical study on effect of laser position and joint gap on full penetration Laser-GMAW-P hybrid welding" , LAMP 2015, May 26-29, 2015, Kitakyushu, Fukuoka, Japan
9. Na Suck-Joo, **Sohail Muhammad**, Han Sang-Woo, Karhu Miikka, Kujanpaa Veli, Flow and Element Mixing Characteristics in Laser-GMA Hybrid Welding, The 15th Nordic Laser Materials Processing Conference, August 25th - 27th 2015, Lappeenranta, Finland