

SAQIB JAVED, PhD, PE.

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SUMMARY

Registered Professional Engineer with over ten years of experience in Research and Development, Design and Installation and Operations and Management of Heating, Ventilation and Air-Conditioning systems and services.

RESEARCH INTERESTS

Ground Source Heat Pump Systems; Ground Heat Exchangers and Thermal Energy Storage; Environment and Sustainability Interactions; Modelling and Simulation of Building Energy Systems; Engineering Management.

EDUCATION

Doctor of Philosophy, Chalmers University of Technology, Sweden <i>Title: Thermal Modelling and Evaluation of Borehole Heat Transfer</i>	Jan 2012
Licentiate of Engineering, Chalmers University of Technology, Sweden <i>Title: Design of Ground Source Heat Pump Systems</i>	June 2010
Masters of Engineering, University of Sydney, Australia	July 2003
Bachelors of Engineering, NUST, Pakistan	Dec 2000

APPOINTMENTS

2012 – Till date	Researcher, Chalmers University of Technology, Sweden
2007 – 2012	Ph.D. Candidate, Chalmers University of Technology, Sweden
2004 – 2006	Assistant Professor/Lecturer, NUST, Pakistan
2001 – 2004	Manager Projects, York Arabia, KSA

TEACHING EXPERIENCE

2007 – Till date	Chalmers University of Technology, Sweden Conducting lectures on Psychrometry and HVAC&R systems for two graduate programs.
2004 – 2006	College of E& ME (NUST), Pakistan Taught undergraduate courses in Thermodynamics, Refrigeration and Air conditioning engineering.
2005 – 2006	NUST Institute of Management Sciences, Pakistan Coordinated undergraduate courses in Engineering Management.

Selected Publications, Saqib Javed

Peer reviewed articles in international journals

Javed, S, Fahlén, P, 2011. Thermal response testing of a multiple borehole ground heat exchanger. *International Journal of Low Carbon Technologies*, vol. 6(3), pp. 141-148.

Javed, S, Claesson, J, 2011. New analytical and numerical solutions for the short-term analysis of vertical ground heat exchangers. *ASHRAE Transactions*, vol. 117(1), pp. 3-12.

Javed, S, Spitler, J, Fahlén, P, 2011. An experimental investigation of the accuracy of thermal response tests used to measure ground thermal properties. *ASHRAE Transactions*, vol. 117(1), pp. 13-21.

Claesson, J, Javed, S, 2011. An analytical method to calculate borehole fluid temperatures for time-scales from minutes to decades. *ASHRAE Transactions*, vol. 117(2), pp. 279-288.

Liebel, H, Javed, S, Vistnes, G, 2012. Multi-injection rate thermal response test with forced convection in a groundwater-filled borehole in hard rock. *Renewable Energy*, vol. 48(2012), pp. 263-268.

Javed, S, Nakos, H, Claesson, J, 2012. A method to evaluate thermal response tests on groundwater-filled boreholes. *ASHRAE Transactions*, vol. 118(1), pp. 540-549.

Claesson, J, Javed, S, 2012. A load-aggregation method to calculate extraction temperatures of borehole heat exchangers. *ASHRAE Transactions*, vol. 118(1), pp. 530-539.

Peer reviewed conference proceedings with international coverage

Javed, S, Fahlén, P, Claesson, J, 2009. Vertical ground heat exchangers – A review of heat flow models. *Proceedings of 11th International Conference on Thermal Energy Storage (Effstock 2009)*, Stockholm, Sweden. *Oral Presentation.*

Javed, S, Fahlén, P, Holmberg, H, 2009. Modelling for optimization of brine temperature in ground source heat pump systems. *Proceedings of 8th International Conference on Sustainable Energy Technologies (SET 2009)*, Aachen, Germany. *Oral Presentation.*

Javed, S, Claesson, J, Fahlén, P, 2010. Analytical modelling of short-term response of ground heat exchangers in ground source heat pump systems. *Proceedings of 10th REHVA World Congress (Clima 2010)*, Antalya, Turkey. *Oral Presentation.*

Javed, S, Fahlén, P, 2010. Thermal response testing of a multiple borehole ground heat exchanger. *Proceedings of 9th International Conference on Sustainable Energy Technologies (SET 2010)*, Shanghai, China. *Oral Presentation.*

Javed, S, Claesson, J, Beier, R, 2011. Recovery times after thermal response tests on vertical borehole heat exchangers. *Proceedings of 23rd IIR International Congress of Refrigeration (ICR2011)*, Prague, Czech Republic. *Oral Presentation.*