

**Name: Shi Yuling**

**Education:** Bachelor Degree in Thermal Engineering in Xi'an Jiaotong University, 09/92 to 07/96

M. Eng. Degree in Thermal Engineering in Xi'an Jiaotong University, 09/96 to 04/99

Ph. D. in Chemical and Environmental Engineering, National University of Singapore, 07/99 to 04/03

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**Research project:**

1. For Master in Xi'an Jiaotong University: Investigation on the characteristics of two-phase (air/water) and three-phase (air, oil and water) emulsion flow in a circular tube.
2. For Ph. D in NUS: Numerical simulation of heat transfer characteristics under semi-confined impinging slot jets.

**Publications:**

## a. Papers in Journal:

1. Shi, YL., M.B. Ray and A.S. Mujumdar. Computational Study of Impingement Heat Transfer under a Turbulent Slot Jet, *Ind. Eng. Chem. Res.*, 2002, *41(18)*, 4643.
2. Shi, YL., M.B. Ray and A.S. Mujumdar. Effect of Large Temperature Differences on Local Nusselt Number Under Turbulent Slot Impingement Jet, *Drying Tech.*, 2002, *20(9)*, 1803.
3. Shi, YL., M.B. Ray and A.S. Mujumdar. Effect of Prandtl Number on Impinging Jet Heat Transfer Under a Semi-Confined Turbulent Slot Jet, *Int. Comm. Heat Mass Transfer*, 2002, *29(7)*, 929.
4. Shi, YL., M.B. Ray and A.S. Mujumdar. Effect of Prandtl Number on Impinging Jet Heat Transfer under a Semi-confined Laminar Slot Jet, accepted by *Int. Comm. Heat Mass Transfer*, Sep. 2002.
5. Shi, YL., M.B. Ray and A.S. Mujumdar. Numerical study of effect of cross flow on turbulent flow and heat transfer characteristics under normal and oblique semi-confined impinging slots, accepted by *Drying Tech.*, March, 2003.
6. Shi, YL., A.S. Mujumdar and M.B. Ray. Heat transfer under two dimensional multiple turbulent slot impinging jets of gas-particle suspensions, submitted to *Int. J. Multiphase Flow*, March, 2003.
7. Shi, YL., A.S. Mujumdar and M.B. Ray. Modeling of Heat Transfer in Turbulent Gas-Solid Flow under two Dimensional Multiple Impinging Jets, submitted to *Ind. Eng. Chem. Res.*, March, 2003.
8. Shi, YL., A.S. Mujumdar and M.B. Ray. Effect of Large Temperature Difference on Impingement Heat Transfer Under A Round Turbulent Impingement Jet, submitted to *Int. Comm. Heat Mass Transfer*, April, 2003.

## b. Papers in conference:

1. Shi, YL., M.B. Ray and A.S. Mujumdar. A Parametric Study of Impingement Heat Transfer under a Slot Jet Using CFD, The 2<sup>nd</sup> Asian-Oceania Drying Conference, Pulau Pinang, Malaysia, pp. 65-76, 2001.
2. Shi, YL., M.B. Ray and A.S. Mujumdar. Effect of Temperature Differences on Local Nusselt number Under Turbulent Slot Jets, in *Proceeding of the 13<sup>th</sup> International Drying Symposium*, Beijing, P. R. China, pp. 128-134, August 2002.
3. Shi, YL., M.B. Ray and A.S. Mujumdar. Effects of Prandtl Number on Impinging Jet Heat Transfer Under a Semi-Confined Turbulent Slot Jet, in *Proceeding of the 9<sup>th</sup> APCCHE Congress and CHEMECA 2002*, Christchurch, New Zealand, 2002.
4. Shi, YL., M.B. Ray and A.S. Mujumdar. Effect of Cross-Flow on Turbulent Flow and Heat Transfer Characteristics Under Normal and Oblique Semi-Confined Impinging Slot Jets, in *Proceeding of the 9<sup>th</sup> APCCHE Congress and CHEMECA 2002*, Christchurch, New Zealand, 2002.