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Education

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|-------------------------------------|---------------------|-----------------|
| • Texas A&M University | Postdoctoral Fellow | 07/2011–04/2012 |
| • University of Wisconsin-Milwaukee | Postdoctoral Fellow | 01/2011–04/2012 |
| • University of Wisconsin-Milwaukee | Ph.D. | 09/2007–01/2011 |

Industry Experience

- Senior Engineer, Applied Research Associates Inc., Panama City, FL 04/2012–08/2014

Current Projects

1. Utilization of microencapsulated phase change material slurry in coil heat exchanger condensers
2. Energy facilities power use reduction by manipulating the naturally-driven air flows
3. Solar heat localization for low-cost and efficient steam generation using nano porous medium
4. Numerical modeling of transport phenomena in nano-membrane for water treatment
5. Nanofluid utilization for an efficient heat pipe assisted solar water heater

Selected Publications

1. Languri E., Aigbotsua C., Alvarado J., Latent Thermal Energy Storage System using Corrugated Phase Change Material Enclosure, *Applied Thermal Engineering*, 50 (2013) 1008–1014.
2. Masoodi R., Languri E., Ostadhossein A., Dynamics of Liquid Rise in a Vertical Capillary Tube, *Journal of Colloid and Interface Science*, 389 (2013) 268–272.
3. Languri E., Pillai K., Effect of Aspect Ratio on Measured Permeability and Flow-Front Progress In 1D Flow Experiments, *International Journal of Fluid Mechanics Research*, Vol. 38, No. 6, (2013) 128–135.
4. Languri E., Shaaban A., Kong M., Alvarado J., Numerical Simulation of a Microencapsulated Phase Change Material Slurry Flowing in a Helical Coil Heat Exchanger, *Proceedings of the ASME International Mechanical Engineering Congress & Exposition, IMECE 2013–63509*, November 15-21, 2013, San Diego, CA, USA.
5. Alvarado J. L., Taherian H., Languri E., Thies C., Heat Transfer and Fluid Flow Behavior of an Economical Microencapsulated Phase Change Material Slurry in Turbulent Flow, *IIR Proceedings Series 'Refrigeration Science and Technology'*, Japan, 2012.
6. Languri E. and Hooman K., Slip Flow Forced Convection in a Microchannel with Semi-Circular Cross-Section, *International Communications in Heat and Mass Transfer*, Vol. 38, Issue 2, (2011) 139–143.

Current Research Team

- M. Esfahani (Postdoc), H. Rokni (Ph.D. student), H. Bahraseman (Ph.D. student), M. Nunna (M.S. student), V. Prabhu (M.S. student)