Anupam Srivastava

Present Address
Allmandring I, 22 A/35
70562 Stuttgart
+49 (0) 176 64220677
anupam.srivastava@gmail.com
Date of birth 16-11-1983
Nationality Indian

Objective

Challenging position as a research scientist incorporating my skills in numerical simulation and phenomenological analysis.

Education

M.Sc., Air Quality Control, Solid Waste and Wastewater Process Engineering (WASTE program), University of Stuttgart, Germany *2007-2008*

B.Tech., Chemical Engineering, Indian Institute of Technology (IIT) - Kanpur, India *2002-2006*

Computer Skills

Language:	Java, Fortran 77/90, C/C++, Bash
Platform:	Microsoft Windows, Linux, Solaris 10
Simulation:	Fluent, ASPEN, HYSIS, LabVIEW
Software:	MATLAB, Microsoft Office, Sigmaplot, Mathcad
Database:	MySQL
Other skills:	Extensive knowledge of Unix based tools. Experience of working on super-computers.

Experience

Scientific Co-helper, Institute of Thermodynamics and Thermal Process Engineering (ITT), University of Stuttgart *2006-2008*

- Collection of experimental data and comparison to various equations of state for different fluids for assessments.
- Calculation of vapor-liquid equilibria for 48 different binary mixtures by Monte Carlo simulations.
- Systematic study of the mixture of methanol and CO2 by molecular dynamics to obtain hydrogen bonding statistics.
- Study of the effects of nano-cavities on flow velocity using molecular dynamics.

Intern, Design of distillation column for Ammonia treatment plant, Jubilant Organosys Limited, Gajraula *May-August 2005*

Language Skills

English:	TOEFL iBT 2007 score: 104/120
German:	Completed Ground-level (Grundstufe) 2 – Continuing further studies
Hindi:	Mother tongue

Projects

1. "Evaluation of molecular models for real substances regarding different state points" – Master thesis. Different properties of pure fluids were predicted for vapor, liquid and supercritical phases, using MD simulations on simplified LJ+point charges based models. *2008*
2. "ms2chart" – program in Java to accurately and quickly plot simulation data, for internal usage in ITT, University of Stuttgart *2006*
3. "Simulation of binary mixtures of industrial solvents" – B.Tech. project under the guidance of Prof. A. K. Khanna, IIT-Kanpur. The project was sponsored by Bharat Petroleum Corporation Limited. *September 2005-April 2006*

Publications

T. Schnabel, A. Srivastava, J. Vrabec, H. Hasse, Hydrogen Bonding of Methanol in Supercritical CO2: Comparison between 1H-NMR Spectroscopic Data and Molecular Simulation Results, *The Journal of Physical Chemistry B* (2007) **111**, 9871-9878.

A. Srivastava, A. K. Verma, Identification of Integrating Processes with Deadtime and Inverse Response, *Industrial & Engineering Chemistry Research* (2007) **46**, 8270-8272.

References:

- Prof. Dr.-Ing. Jadran Vrabec
  c/o ThEt Universität Paderborn,
  Warburger Straße 100
  33098 Paderborn
  Tel.: +49 (0) 5251 60 2420
  jadran.vrabec@uni-paderborn.de
- Prof. Dr.-Ing. Hans Hasse
  c/o LTD Universität
  Kaiserslautern,
  Erwin-Schrödinger-Straße 44
  67653 Kaiserslautern
  Tel.: +49 (0) 631 205 3497
  hans.hasse@mv.uni-kl.de
- Dr.-Ing. Michael Waldbauer
  c/o WASTE Universität
  Stuttgart,
  Pfaffenwaldring 23
  D-70569 Stuttgart
  Tel.: +49 (0) 711 685 5456
  waldbauer@iswa.uni-stuttgart.de