

SHREYA MAITI

415 College Main, #8,
College Station, TX 77840

979-943-3150

shreya.maiti@chemail.tamu.edu

EDUCATION

- **PhD., Chemical Engineering** Aug 2009-present
Texas A&M University, College Station, TX
- **B.Tech., Chemical Engineering, CGPA 8.91/10** 2005-2009
National Institute of Technology (NIT), Durgapur, India

PROJECTS

- **Integrated Experimental and Computational Investigation of Cellular Signaling Pathways** (Present)
- **Mathematical Modeling of Boiling Two-Phase Flow**
Department of Chemical Engineering NIT, Durgapur (Jan'08 – May'09)
 - Critical examination of numerical damping and identification of flow oscillations in a uniformly-heated vertical boiling channel with the help of homogeneous equilibrium model (HEM) based formulation of thermally-induced two-phase flow.
- **Piping Design for Compressible and Incompressible Fluid Network Systems**
M. N. Dastur & Co. Pvt. Ltd., Consulting Engineers, Kolkata, India (May - July '09)
 - Designing air compressor
 - Designing oxygen buffer vessel
 - Flexibility analysis of a piping system to prevent pipeline failures due to excessive stress.
 - Designing scale pit and settling tank for separation of suspended solids from process water cooling system.
- **Operation of Production Units**
Durgapur Steel Plant, Durgapur, India (April - May '08)
 - Studying the effects on efficiencies of blast furnace, coke oven and cooling tower due to changes in operating conditions.

CONFERENCE PAPER

- S. Maiti and S. Paryua, “*Numerical Diffusion in Computations of Boiling Flow Instabilities*”, International Congress on Computational Mechanics and Simulation (ICCMS) 2009, IIT Powai, India

EXTRACURRICULAR ACTIVITIES

- 1st prize in Management Paper on “*Reverse Merger and Shell Stocks*” at Inter College Techno-Management fest, 2009, NIT, Durgapur
- Best Technical Paper on “*Enzyme Immobilization*” at Inter College Technical fest, 2008
- Best Technical Paper on “*Arsenic Abatement in Water*”, All India Student Engineering Congress organized by ISTE, 2007
- Core-committee member of the Institute Music Club, NIT, Durgapur
- Won prizes in various inter and intra college music competitions