



Chemical and Biomolecular Engineering Graduate Student Profile



OSCAR M. CORONADO

Education

Ph.D. candidate in Chemical Engineering, Rice University, Houston, TX, 2003 – present

Mechanical Engineering Master of Science, Pontificia Universidade Catolica, Rio de Janeiro, Brazil, 2002

Mechanical Engineering Bachelor of Science, Universidad Nacional de Ingenieria, Lima, Peru, 1999

Research Focus

Galerkin/Least-Squares Method for Viscoelastic Fluid Flow Simulation

Research and Related Experience

08/03 – Present Rice University, Chemical Engineering Department, Research Assistant

03/03 – 06/03 Rice University, Chemical Engineering Department, Visiting Student

Awards and Honors

- 2003 – present – Rice University Fellowship.
- 2000 – 2002 – Pontificia Universidade Catolica de Rio de Janeiro Scholarship.

Selected Publications and Presentations

Marek Behr, Dhruv Arora, **Oscar Coronado** and Matteo Pasquali, “ Stabilized finite element methods of GLS type for Oldroyd-B viscoelastic fluid,” in European Congress on Computational Methods in Applied Sciences and Engineering, ECOMAS 2004.

O. Coronado-Matutti, P.R. Souza Mendes, and M.S. Carvalho, “ Instability of Pseudoplastic Liquids in a Couette Flow between Concentric Cylinders,” *Journal of Fluid Engineering*, 126, No.3, 385-390, 2004.

Oscar Coronado, Paulo Roberto de Souza Mendez and Marcio da Silveira Carvalho, “ Stability of viscoplastic flow in annuli with a rotating inner cylinder,” in 9th Brazilian Congress of Thermal Engineering and Sciences, ENCIT 2002.

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