

GAUTHAM KRISHNAMOORTHY

Assistant Professor

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EDUCATION AND PROFESSIONAL EXPERIENCE

Education

2005 Ph.D., Chemical Engineering, University of Utah, Salt Lake City
2002 M.S., Chemical and Fuels Engineering, University of Utah, Salt Lake City
1998 B.E., Chemical Engineering, Bangalore University, INDIA

Professional Experience

2009-Present Assistant Professor, Department of Chemical Engineering,
University of North Dakota
2005-2009 Consulting Engineer, ANSYS Inc., Lebanon, NH

Professional Associations/Service

Journal Reviewer, *Energy and Fuels*
Journal Reviewer, *Numerical Heat Transfer Part B*

UND Service

2010 UND Scholarly Activities Forum, co-chair: SUNRISE session

COURSES DEVELOPED AND TAUGHT

Undergraduate Level

- ChE 315 Statistics and Numerical Methods

Graduate Level

- ChE 501 Advanced Transport Phenomena

RESEARCH

Peer-Reviewed Publications (2009)

Publications

- Krishnamoorthy, G.; "A New Weighted-Sum-of-Gray-Gases Model for CO₂-H₂O Gas Mixtures," *International Communications in Heat and Mass Transfer* (accepted).
- Krishnamoorthy, G.; "A Comparison of Gray and Non-Gray Modeling Approaches to Radiative Transfer in Pool Fire Simulations," *Journal of Hazardous Materials* (in press).
- Krishnamoorthy, G.; Perera, A.; Sami, M.; Orsino, S.; Shahnam, M.; Huckaby, D. E.; "Radiation Modelling in Oxy-Fuel Combustion Scenarios," *International Journal of Computational Fluid Dynamics* (in press).

HONORS AND AWARDS

Grant Proposals Submitted and Awarded (2009)

- Submitted 7 proposals with a combined value of \$ 1.12 million.
- Awarded 3 research grants as PI or Co-PI with a total value of \$0.62 million.