

JORGE FEDERICO GABITTO

Chemical Engineering Department

Prairie View A&M University

(a) Professional Preparation

University of Buenos Aires (Argentina)	Applied Chemistry	B. S. & 1977
University of Buenos Aires (Argentina)	Chemical Engineering	Ph. D., 1984
University of California Davis	Chemical Engineering	1987-1988
University of Houston	Chemical Engineering	1988-1991

(b) Appointments

Associate Professor, Chemical Engineering Department, Prairie View A&M University, 08/91 - Present

(c) Publications

- a. Gabitto, J. F. and Tsouris, C., "Formation and Dissolution of CO₂ Hydrate Particles in a High-Pressure Water Tunnel Facility," *Chemical Engineering Science*, **63** (12), 3235-3248, 2008.
- b. Gabitto, J. F. and Tsouris, C., "Hydrogen Transport In Composite Inorganic Membranes," *Journal of Membrane Science*, **312** (1-2), 132-142, 2008.
- c. Gabitto, J. F. and Tsouris, C., "Drag Coefficient and Settling Velocity for Particles of Cylindrical Shape," *Powder Technology*, **183**(2), 314-322, 2008.
- d. Tsouris, C., McCallum, C. S., Aaron, D., Riestenberg, D., Gabitto, J., Chow, A., and Adams, E. "Scale-up of a continuous-jet hydrate reactor for CO₂ ocean sequestration", *AIChE Journal*, **53**(4): 1017-1027, 2007.
- e. Gabitto, J.F., Riestenberg, D. A., Lee, S., Liang, L., and Tsouris, C. "Ocean Disposal of CO₂: Conditions for Producing Sinking CO₂ Hydrate," *Journal of Dispersion Science and Technology*, **25**, 705-714 (2004).

(ii) 5 other significant publications

- f. Gabitto, J. F., "Combined Microbial Surfactant Polymer System for Improved Oil Mobility and Conformance Control," *SPE No: 102328*, published in the *Proceedings of the San Antonio SPE Annual Meeting*, San Antonio, TX September, 2006.
- g. Gabitto, J., and C. Tsouris, "Dissolution Mechanisms of CO₂ Hydrate Droplets in Deep Seawaters," *Energy Conversion and Management*, **47**, 494-508 (2006).
- h. "Combined Microbial Surfactant Polymer System for Improved Oil Mobility and Conformance Control," M. A. Barrufet, and J. F. Gabitto, *Final Report to DOE*. Accepted as DOE Official Publication, 2005.
- i. "Theoretical and Experimental Determination of Heavy Oils Viscosity," M. A. Barrufet and J. F. Gabitto, *SPE No: 101427*, published in the *Proceedings of the Dallas SPE Annual Meeting*, Dallas, TX, October, 2005.
- j. "Modeling and Simulation of Photo CVD Reactors," F. Uzuafa, S. Lin, J. F. Gabitto, and K. Shukla, paper published in *Ind. & Eng. Chem. Res.*, 4579-4584, **38**, 1999.

(d) Synergistic Activities

- Member, Gas Hydrates Research Group Oak Ridge National Laboratory, Nuclear Science and Technology Division.

(e) Collaborators & Other Affiliations

• Collaborators and Co-Editors

Dr. John Wilkins, Center For Applied Radiation Research , Prairie View A&M University

Dr. Costas Tsouris, Oak Ridge National Laboratory Nuclear Science and Technology Division

Dr. John Coughmann, Oak Ridge National Laboratory Fusion Energy Division

Professor Maria Barrufet, Petroleum Engineering Dept., Texas A&M University

Professor Sotira Yacumi, Environmental Engineering Dept., Georgia Institute of Technology

Professor Vemuri Balakotaiah, Chemical Engineering Dept., University of Houston

• Graduate Advisors and Postdoctoral Sponsors

a). University of Houston, Chemical Engineering, Post-Doctoral Fellow, 1988-1991

Professor Dan Luss,

Chemical Engineering Dept.

University of Houston

Houston, TX. 77204-4729

USA. (713) 749-3617

b). University of California Davis, Chemical Engineering, Post-Doctoral Fellow, 1987-1988

Professor S. Whitaker

Chemical Engineering Dept.

University of California at Davis

Davis, CA. 95616. USA

(916) 752-0400

• Thesis Advisor and Postgraduate-Scholar Sponsor

Advisor to 9 different students that completed a Master Thesis in Chemical Engineering (PVAMU).

Committee member for several graduate students that completed a Master Thesis in Engineering (PVAMU).

Mr. Gift Ngo

Mr. Femi Uzuafa

Mr. Samuel Kanu

Mr. Augustine Tambe

Ms. Nancy Akintonde

Mr. Ladipo Kolawale

Mr. Guanghui Yao

Mr. Said Naqvi

Mr. Oscar Eta