

Joe Golab is the Research Advisor for Modeling & Simulation for Innovene USA LLC (part of the BP Group). Located at Central Park of Lisle (IL), he directs the worldwide work effort of the modeling technology with his counterpart in Europe and performs client sponsored research projects.

Besides modeling and simulation, Joe has several interests within the company including High Throughput Experimentation, Catalysis, and High Performance Computing. He has served on several of the US Government's Vision 2020 panels. He is a graduate instructor in the Department of Biological, Chemical, and Physical Sciences within the Armour College of Engineering and Science at the Illinois Institute of Technology.

Before coming to Amoco in 1991, Joe was a Research Scientist and Leader of the Computational Chemistry Group at the National Center for Supercomputer Applications located on the campus of the University of Illinois in Urbana.

He studied the theoretical aspects of surface Raman and Hyper-Raman spectroscopy and quantum chemical reaction dynamics, as a postdoctoral associate of Professor George C. Schatz at Northwestern University in Evanston, Illinois.

Joe's dissertation work, completed at Texas A&M University under the direction of Professor Danny L. Yeager, focused on bound state theoretical quantum chemistry.

He received a Baccalaureate degree, Honors, Cum Laude in Chemistry from Loyola University of Chicago.

Joe's interests lie on the technical side specifically in applying and developing accurate, quantitative, computational techniques and methods for problems of industrial interest, especially thermochemistry, kinetics, and catalysis. He is a contributing author on over 38 refereed journal articles, several book chapters, and one book and has spoken on industrial applications of molecular modeling around the world.