Joe Golab is a Molecular Modeling & Simulation expert for Chemistry and Chemical Engineering. He is a computational scientist with more than thirty years' experience adding valuable technical contributions and scientific insights in the petrochemical industry. As a trustee (and past president) of CACHE, he works on several internal committees to promote cooperation among universities, industry, and government for computer-related educational aids for chemical engineering.

As a member of the Science Faculty at the Illinois Mathematics & Science Academy (IMSA), he teaches chemistry, engineering, and molecular modeling by providing inquiry-based and problem-centered learning experiences that promote scientific habits of mind. Before arriving at IMSA, Joe directed the overall work efforts of the modeling and simulation technology at INEOS Technologies located in Naperville (Illinois). Joe has several other interests including Electronic Laboratory Notebooks, Data Storage and Mining, and High Performance Computing. He has served on several US Government panels including DOE's INCITE Panel and is an author of computational chemistry and engineering reports for the Chemical Council of Research.

Before starting his industrial career at Amoco in 1991, Joe was a Research Scientist and the Leader of the Computational Chemistry Group at the National Center for Supercomputer Applications. Joe's interests lie on the technical side of science and engineering 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 50 refereed journal articles, several book chapters, a few patents, and one book. Joe has spoken on industrial applications of molecular modeling around the world.