Speaker of Session 18

MECHANICS OF NANOPOROUS MATERIALS FOR ENERGY APPLICATIONS

Rainier Maldonado is Assistant Professor in the Department of Thermodynamics and Transport Phenomena at Simón Bolívar University – Venezuela, since 2008. He is lecturer of Unit Operations courses: Separations Processes and Chemical Reactors. His research areas include experimental tests, characterization and phenomena modeling of processes like distillation, evaporation, absorption, adsorption, crystallization and membrane permeation.

Under the supervision of Prof. F. Kapteijn and J. Gross at Delft University of Technology, he conducted experimental test of permeation and separation through porous membranes. He focuses his work in the modeling of the differential equations that describe the transports taking place during a process.

Supervisor of 25 internships in industries like pharmaceutical, water treatment plants, food processing, oil refineries, NG processing plants. He has Extensive experience in teaching and evaluating students in undergraduate and graduate programme courses, being jury of 22 graduation projects and advisor of 7 thesis projects. Publications: 5 full papers, 12 presentations in congress.