PhD Short Course on Modeling and Simulation of Amorphous Ceramics

Peter Kroll, Department of Chemistry and Biochemistry, University of Texas

June 15th, 16th, 19th 2017 from 2 to 4 p.m.

Department of Industrial Engineering, Seminar room,
via Sommarive 9, Povo – Trento

1st Lecture: Modeling Glasses and Amorphous Ceramics — Homogeneous Networks and Segregated Structures

2nd Lecture: Calculations of Physical and Thermochemical Properties of Polymer-Derived Ceramics

3rd Lecture: The Conundrum of Modeling Silicon Oxycarbide: Order and Disorder at Various Length Scales

Peter Kroll is Full Professor at the Department of Chemistry and Biochemistry at The University of Texas at Arlington.
He obtained his PhD in 1996 at the Dpt. of Materials Science, TU Darmstadt.

His research interests includes:
• glasses and amorphous ceramics;
• nitride glasses and silicon nitride based ceramics;
• high pressure chemistry, especially prediction of new nitride compounds at high pressure;
• synthesis of Si-C-O (aerogels and fibers) and characterization of pore architecture.
He is the author of more than 80 papers and is a frequent speaker at international conferences.