A Brief Introduction to Gaussian Umea, Sweden May 14 – May 15, 2018



Day 1: Monday, May 14

8:45	Check In & Distribution of Workshop Materials
9:00	Chemical Potential Energy Surface Review
	 Designing Computational Experiments
	 Potential Energy Surfaces
	 Optimizing Reactants & Products
	• Optimizing Transition States & Reaction Path Following
	 Vibrational Spectroscopy & Thermochemistry
10:30	Tea & Coffee Break
10:45	Laboratory I: Chemical Exploration
12:00	Lunch
13:00	Model Chemistry Review
	Basis Sets
	 Density Functional Theory
	 Semi-Empirical & Molecular Mechanics Theories
	 ONIOM Hybrid Methods
14:45	Tea & Coffee Break
15:00	Laboratory II: ONIOM Adventures
17:00	Departure

Day 2: Tuesday, May 15

9:00	 Solutions & Spectroscopies Self-Consistent Field Problems & Strategies Solvation Models TD-DFT & UV Spectroscopy
10:45 11:00	Tea & Coffee Break Laboratory III: Solution-phase Chemistry
12:00	Lunch
13:00 14:45 15:00 17:00	Laboratory IV: Excited States Tea & Coffee Break Laboratory V: Open-shell & Paramagnetic Systems Departure