

Finite Element Modeling Workshop Program (21-23 July, 2014)

	Monday 21st July	Tuesday 22nd July	Wednesday 23rd July
8:00 - 9:00	COMSOL Installation		
9:00 - 9:40	Valentina Troncale (Invited speaker from COMSOL) Introduction to FEM and COMSOL	Hendrik Schutz PML and mechanical losses(Sphere and Toroids)	Kirill Plekhanov Electro-optics coupling simulation
9:45 - 10:25	Valentina Troncale (Invited speaker from COMSOL) Introduction to EM simulations in COMSOL	Amir Ghadimi Radition losses in WGM resonators	Amir Ghadimi Laser heating and heat transport
10:25 - 10:55	Coffee Break	Coffee Break	Coffee Break
10:55 - 11:35	Sven Friedel (Invited speaker from COMSOL) Geometry simplification/ Meshing/ Solver tuning	Liu Qiu 1D periodic structures and phononic bandgap simulations	Amir Ghadimi Thermal expansion
11:40 - 12:20	Sven Friedel (Invited speaker from COMSOL) Parameteric Sweep/ Matlab Livelink/ Parallel and cloud computing	Wolfgang Noichl 2D bandgap simulations	Q&A session
12:30 - 14:00	Lunch	Lunch	Departure
14:00-14:40	Amir Ghadimi Mechanical Stress/strain simulation and nano-beams	Wolfgang Noichl Photonics crystals and defect cavities	
14:45 - 15:25	TBA waveguide-waveguide coupling	Amir Ghadimi Near field coupling	
15:25 - 15:55	Coffee Break	Coffee Break	
16:00 - 16:40	Arne Kordts Weak forms and WGM simulations	Q&A session	
16:45 - 17:25	Q&A session	Excursion to Vineyard Terraces (UNESCO word heritage site) & Wine testing	
17:30			
19:00			
21:00			
Wednesday 23rd July at noon		Departure	