

WORKSHOP

on

Electromagnetics-based Computer-aided Design of High-frequency Structures and Antennas

(September 9, 2005, McMaster University, room: ITB-A113B)

8:00 – 8:10 h.John W. Bandler: *Opening Remarks and Introducing the Feature Speaker*8:10 – 9:45 h. FEATURE TALKJames C. Rautio, President and Founder, Sonnet Software
*The Life of James Clark Maxwell*9:45 – 10:30 h.Natalia K. Nikolova, McMaster University
*Sensitivity Analysis and Optimization with Frequency-domain Electromagnetic Solvers***10:30 – 10:45 Coffee break**10:45 – 11:15 h.Natalia K. Nikolova, McMaster University
*Sensitivity Analysis in the Time-domain: Applications with the FDTD Method*11:00 – 11:30 h.Peter Basl, McMaster University
*An Adjoint Variable Method for Time Domain TLM Solvers*11:30 – 12:00 h.Mahmoud El Sabbagh, McMaster University and Ein Shams University (Egypt)
*Mode Matching, Generalized Scattering Matrix, Adjoint Network Method: Tools for Sensitivity Computations***12:00 – 13:00 h. Lunch break**13:00 – 13:45 h.John W. Bandler, McMaster University
*Space Mapping: From Practical Engineering Modeling to Highly Optimized Designs Exploiting Surrogates*13:45 – 14:15 h.Slawomir Koziel, McMaster University
*Space Mapping: From Rigorous Formulation to User Friendly Software Implementation*14:15 – 14:45 h.Q.S. Chen, McMaster University
*Device Model Enhancement Using Agilent ADS and Space Mapping***14:45 – 15:00 h. Coffee break**15:00 – 15:30 h.James C. Rautio, President and Founder, Sonnet Software
*Design Closure*15:30 – 16:15 h.Poman So, University of Victoria
*Time Domain Modeling of Negative Refractive Index Metamaterials with MEFiSTo*16:15 – 16:30 h.Natalia K. Nikolova: *Discussion and Closing Remarks*