



**Technical Parallel Session – Advanced Materials for Micro- and Nano Systems (AMM&NS) Programme
Day 2: Thursday, 22 January 2009**

Time	Programme Schedule
8:50 am – 9:00 am	Carl V Thompson and Pey Kin Leong <i>Welcome and Overview</i>
9:00 am – 9:20 am	Caroline A Ross <i>Magnetic Rings for Memory and Logic</i>
9:20 am – 9:40 am	A Adeyeye <i>Ferromagnetic Nanorings for Magnetoelectronic Applications</i>
9:40 am – 10:00 am	Chua Soo Jin <i>Synthesis and Characterization of ZnO Nanostructures by Low Temperature Methods - Electrodeposition and Atomic Layer Deposition</i>
10:00 am – 10:20 am	E A Fitzgerald <i>Monolithic III-V/Si Integration</i>
10:20am – 10:40 am	Yoon Soon Fatt <i>III-V/Si Heterogeneous Integration: Materials and Devices</i>
10:40 am – 11:00 am	Break
11:00 am – 11:20 am	Pey Kin Leong <i>Semiconductor Nanowire and Nanowire Heterostructures</i>
11:20 am – 11:40 am	D A Antoniadis <i>Charge trapping in 1-nm Si nanocrystal MOS structures</i>
11: 40 am – 12:00 pm	Wong Chee Cheong <i>Dye Sensitized Solar Cells with Embedded Photonic Crystals</i>
12:00 pm – 2:00 pm	Lunch
2:00 pm – 2:20 pm	Nicola Marzari <i>First-Principles Characterization and Engineering of Carbon-Based Nanodevices</i>
2:20 pm – 2:40 pm	Q Zhang <i>NH₃ Gas Detection with SWNT-FETs</i>
2:40 pm – 3:00 pm	J Thong <i>Self-Aligned Selectively Insulated Nanogap Devices for Biosensing Applications</i>
3:00 pm – 3:20 pm	F Stellacci <i>Nanomaterials for the Environment</i>
3:20 pm – 3:40 pm	Break
3:40 pm – 4:00 pm	Choi Wee Kiong <i>Creation of Nano Structures with Interference Lithography</i>
4:00 pm – 4:20pm	Carl V Thompson <i>Use of Microcantilevers for Studies of Materials for Phase Changes Memories</i>
4:20 pm – 4:40 pm	Y Li <i>Study of Stress Evolution and Crystallization Kinetics in Amorphous Materials</i>
4:40 pm – 5:00 pm	C L Gan <i>Electromigration-Induced Bond Improvement for Three-Dimensional Integrated Circuits</i>