

THURSDAY, MARCH 6, 2008

19:30 – 21:00	Public Lecture	<p>Opening Remarks: <i>Dr. Jorge Jose</i>, Vice President for Research, Department of Physics, University at Buffalo</p> <p>“Putting Spin into Electronics - Vision for the Future”, <i>Igor Zutic</i></p> <p>Chair: Dr. Alexander Cartwright, Department of Electrical Engineering, University at Buffalo</p>
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FRIDAY, MARCH 7, 2008

8:30 – 10:00	Session 1	<p>Magnetism in Semiconductors - Chair: Dr. Jorge Jose, Vice President for Research, Department of Physics, University at Buffalo</p> <ul style="list-style-type: none"> ▪ Opening Remarks: <i>Dr. Jorge Jose</i> ▪ “Magnetic Excitations in Ferromagnetic Semiconductors”, <i>Jacek K. Furdyna</i> ▪ “Nanoferrromagnetism in Synthetic Diamonds”, <i>Manuel Cardona</i> ▪ “The Use of Spin LEDs for the Study of Electrical Spin Injection into Semiconductors”, <i>Athos Petrou</i>
10:00 – 10:15		Morning Coffee Break
10:15 – 11:45	Session 2	<p>Graphene and Carbon Nanotubes - Chair: Dr. Bernard Weinstein, Department of Physics, University at Buffalo</p> <ul style="list-style-type: none"> ▪ “You Can Never Be Too Thin or Too Rich: Physics in Single Layer Graphite”, <i>Horst L. Stormer</i> ▪ “Cyclotron Resonance in Graphene”, <i>Allan H. MacDonald</i> ▪ “One-Dimensional Magneto-Excitons in Carbon Nanotubes”, <i>Junichiro Kono</i>
11:45 – 13:15		Lunch
13:15 – 14:45	Session 3	<p>Narrow-Gap Semiconductors - Chair: Dr. Vladimir Mitin, Chair, Department of Electrical Engineering, University at Buffalo</p> <ul style="list-style-type: none"> ▪ “Bruce and Electric Dipole Spin Resonances”, <i>Emmanuel I. Rashba</i> ▪ “Spin Dynamics in Non-Magnetic Narrow Gap Semiconductors”, <i>Carl R. Pidgeon</i> ▪ “Trembling Motion (Zitterbewegung) of Electrons in Semiconductors”, <i>Wlodek Zawadzki</i>
14:45 – 15:00		Afternoon Coffee Break
15:00 – 16:00	Session 4	<p>High-Field Magneto-Spectroscopy - Chair: Dr. Junichiro Kono, Department of Electrical Engineering, William Marsh Rice University</p> <ul style="list-style-type: none"> ▪ “Unusual Cyclotron Resonances in High Magnetic Fields: From Combined Resonances to Electron-Electron Interaction”, <i>Noboru Miura</i> ▪ “Effective Masses and Valley-Symmetry in AIP Quantum Wells”, <i>Jean Léotin</i>
16:00 – 16:30		Break
16:30 – 18:00		<p>Poster Session and Reception</p> <p>Chair for Poster Session: Dr. Mark Swihart, Department of Chemical and Biological Engineering, University at Buffalo</p>
19:00 – 22:30		<p>Banquet - “Third Thoughts on the McCombiad”, <i>Stephen G. Bishop</i></p> <p>Chairs for after dinner banquet speakers: Dr. Yong-Jie Wang, National High Magnetic Field Laboratory, and Dr. Christian J. Meining, Intel Corporation</p>

SATURDAY, MARCH 8, 2008

9:00 – 10:00	Session 5	<p>The Quantum Hall Effect - Chair: Dr. Frank Gasparani, Chair, Department of Physics, University at Buffalo</p> <ul style="list-style-type: none"> ▪ “Microwave-Induced Phenomena in GaAs-AlGaAs Heterostructures”, <i>Klaus von Klitzing</i> ▪ “The Hierarchy of Incompressible Fractional Quantum Hall States”, <i>John J. Quinn</i>
10:00 – 10:15		Morning Coffee Break
10:15 – 11:45	Session 6	<p>Spin-Related Phenomena - Chair: Dr. Joseph Tischler, Naval Research Laboratory</p> <ul style="list-style-type: none"> ▪ “Mode Locking of Electron Spin Coherence in an Ensemble of Singly Charged Quantum Dots”, <i>Alexander L. Efros</i> ▪ “From Spin Excitations to Quantum Computation with Semiconductor Quantum Dots”, <i>Pawel Hawrylak</i> ▪ “Magneto-Optical Kerr Effect (MOKE) Spectroscopy of Spin-Polarized Electron Transport in Semiconductors”, <i>Madalina Furis</i>
11:45 – 13:15		Lunch
13:15 – 14:45	Session 7	<p>Quantum Confined Semiconductors - Chair: Dr. Gottfried Strasser, Department of Electrical Engineering, Department of Physics, University at Buffalo</p> <ul style="list-style-type: none"> ▪ “Magnetic Field Tuning of Electron-Electron Interactions”, <i>Erich Gornik</i> ▪ “Dynamics of Quantum Well Excitons in Tunable Landscapes”, <i>Jörg P. Kotthaus</i> ▪ “Magneto-Transport in Bloch Oscillating Superlattices”, <i>S. James Allen</i>
14:45 – 15:00		Afternoon Coffee Break
15:00 – 16:00	Session 8	<p>Novel Magneto-Optical Systems - Chair: Dr. Günther Bauer, Prof. of Semiconductor Physics, University of Linz, Austrian Academy of Sciences</p> <ul style="list-style-type: none"> ▪ “Semiconducting Photonic Crystals in Magnetic Fields”, <i>Friedemar Kuchar</i> ▪ “Unusual Magneto-Infrared Modes in CdTe Based Systems”, <i>Yong-Jie Wang</i>
16:00 – 16:45		<p>Closing Session</p> <p>“Wanderings through a Landscape of Lowering Dimensions”, <i>Bruce D. McCombe</i></p> <p>Chair for Closing Session: Dr. Ian Sellers, Department of Physics, University at Buffalo</p>