Monday, July 11, 2005					
07:30	Onsite Registration Elevator area, Second Floor continues until 16:00				
08:00	Continental Breakfast Pre-function Area, Second Floor				
09:00	Welcome and Conference Opening				
	Jerry Simmons and Evelyn Hu Grand Pavilion - Second Floor				
09:45	Stephen Forrest	A1 - Plenary Speaker			
	Princeton University Organic Semiconductors: New Materials, Physics and Devices for Modern Optoelectronics				
10:30	Morning Break				
	Pre-function Area, Second Floor				
11:00	Gerhard Abstreiter	A2 - Plenary Speaker			
	Technische Universität Muenchen Charge and Spin Excitations in Single and Coupled Quantum Dots				
11:45	Leo Kouwenhoven	A3 - Plenary Speaker			
	Kavli Institute of Nanoscience, Delft Spin Physics in Few-electron Quantum Dots				
12:30	Lunch				
	(your own arrangements)				
	Session B Non-linear Behavior of Superlattice Structures				
14:00	S. James Allen	B1 - Invited Talk			
	University of California - Santa Barbara Loss and Gain in Bloch Oscillating Semiconductor Super-Superlattices				
14:30	Kazuhiko Hirakawa	B2 - Invited Talk			
	University of Tokyo Dispersive terahertz gain of non-classical oscillator: Bloch oscillation in semiconductor superlattices				
15:00	Carlo Sirtori	B3 - Invited Talk			
	Thales Research and Technology Quantum cascade lasers: physics and applications				
15:30	Daniel Wasserman	B4 - Invited Talk			
	Princeton University Stimulated Anti-Stokes Raman Emission in Quantum Cascade Lasers				

16:00 **PA - Poster Session A**

Enchantment Ballroom, Second Floor

PA1-Formation and Characterization of Quantum Dots and Rings [I]

PA2-Formation and Characterization of Quantum Wells and Two-dimesional Heterostructures

PA3-Two-dimersional Heterostructure Devices

18:00 Daily Session Concludes

Tuesday, July 12, 2005

08:00 Continental Breakfast

Pre-function Area, Second Floor

Session C

Quantum Dots and Rings [I]

09:00 Peter Offermans

C1 - Invited Talk

Eindhoven University of Technology

Atomic-scale structure and formation of self-assembled In(Ga)As quantum rings

09:30 Naoki Kondo

C2 - Contributed Oral Presentation

Institute of Industrial Science, University of Tokyo

Possible Generation of Electric Multipole Radiation from Solid State Quantum Rings

09:45 Eric Stinaff

C3 - Contributed Oral Presentation

Naval Research Laboratory

Optical Pumping of a Single Charge-Tunable Quantum Dot

10:00 Martin Kroner

C4 – Contributed Oral Presentation

Ludwig-Maximilians-Universität

Absorption and Emission Spectroscopy on a Single Charge-Tunable Quantum Dot

10:15 Minkyung Jung

C5 - Contributed Oral Presentation

University of Tokyo

Electron transport and shell structures of single InAs quantum dots proved by nanogap electrodes

10:30 Morning Break

Pre-function Area, Second Floor

Session D

Quantum Dots and Rings [II]

11:00 Eric Stinaff

D1 – Invited Talk

Naval Research Laboratory

Polarization Spectroscopy of Single and Coupled InAs Quantum Dots

11:30 **S.A. Braitbar**

D2 - Contributed Oral Presentation

Solid State Institute, Technion

Magneto Optics of Single Photons Emitted From Single Quantum Dots in Planar Microcavities.

11:45 Gustavo Narvaez

D3 - Contributed Oral Presentation

National Renewable Energy Laboratory (NREL), Colorado

Electronic and optical properties of neutral and charged excitons in million-atom InGaAs/GaAs quantum dots

12:00 Kouichi Akahane

D4 - Contributed Oral Presentation

National Institute of Information and Communications Technology, Japan

1.5 µm emission from InAs quantum dots using an InGaAsSb strain-reducing layer grown on GaAs substrate

12:15 Robert Seguin

D5 - Contributed Oral Presentation

Technische Universität Berlin

Quantum Dot Size Dependence of Exciton Fine Structure Splitting

12:30 Lunch

(your own arrangements)

Session E

Quantum Wells and Two-Dimensional Heterostructures

14:00 **Sebastian Roth**

E1 - Invited Talk

Technische Universität München

Realization of a quantum wire with double cleaved-edge overgrowth

14:30 Klaus Reimann

E2 - Contributed Oral Presentation

Max-Born-Institut

Radiative coupling of intersubband transitions in GaAs/AlGaAs multiple quantum wells

14:45 Mark Fromhold

E3 - Contributed Oral Presentation

University of Nottingham

Observation of strong current resonances due to the formation of stochastic conduction networks in superlattices

15:00 Thomas Feil

E4 - Contributed Oral Presentation

Universität Regensburg

Stable static and dynamic superlattice transport

15:15 Lukas Worschech

E5 - Contributed Oral Presentation

Universität Wuerzburg

Sub kT switching in strongly correlated one dimensional conductors

15:30 Sebastien Moreau

E6 - Contributed Oral Presentation

Grenoble High Magnetic Field Laboratory, Centre National de la Recherche Scientifique (CNRS)

Optically detected cyclotron resonance in a high mobility 2DEG

16:00 **PB – Poster Session B**

Enchantment Ballroom, Second Floor

PB1-Formation and Characterization of Quantum Dots and Rings [II]

PB2-Formation and Characterization of Quantum Wires

PB3-Modeling, Processing and Probing Modulated Semiconductor Structures

PB4-Magnetism and Spin in Nanostructures [I]

18:00 Daily Session Concludes

Wedn	esday,	July	13,	2005
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08:00 Continental Breakfast

Pre-function Area, Second Floor

Session F

Magnetism and Spin in Nanostructures [I]

09:00 Henri Mariette

F1 - Invited Talk

Commissariat à l'Energie Atomique (CEA)- Centre National de la Recherche Scientifique (CNRS)- Université Joseph Fourier

One single spin in a quantim dot

09:30 Atsushi Tackeuchi

F2 - Invited Talk

Waseda University

Spin Relaxation and Antiferromagnetic Coupling in Semiconductor Quantum Dots

10:00 Eiji Saitoh

F3 - Invited Talk

Keio University

Current induced resonance of a single magnetic domain wall

10:30 Morning Break

Pre-function Area, Second Floor

11:00 Jelena Vuckovic

G1 - Plenary Speaker

Stanford University

Generation and manipulation of classical and nonclassical light using photonic crystals

11:45 Emmanuel Rashba

G2 - Plenary Speaker

Harvard University

Spin-orbit Coupling and Spin Transport

12:30 Group Outing Tours

includes lunch

Buses depart from and return to the front of the Hyatt

18:30 Conference Reception

Buses depart from the front of the Hyatt

19:30 Conference Banquet

Albuquerque BioPark

21:30 Buses return to the front of the Hyatt

22:00 Daily Session Concludes

Thursday, July 14, 2005

08:00 Continental Breakfast

Pre-function Area, Second Floor

Session H

Novel Organic and Semiconductor Devices

09:00 Konstantin Novoselov

H1 - Invited Talk

University of Manchester

Field Effect Transistor Based on Thin Films of Graphite

09:30 Sungwoo Hwang

H2 - Contributed Oral Presentation

Korea University

High frequency response of a single wall carbon nanotube field effect transistor

09:45 Constantinos Simserides

H3 - Contributed Oral Presentation

Leibniz Institute for Neurobiology

A small polaron hopping model for the multiphonon-assisted transport along DNA molecules, in the presence of disorder

10:00 Axel Lorke

H4 - Contributed Oral Presentation

Universität Duisburg-Essen

Charge pumping in adiabatically driven electron ratchets

10:15 Emilio Mendez

H5 - Contributed Oral Presentation

State University of New York

Drastic Reduction of Shot Noise in Superlattice-based p-i-n Photodiodes

10:30 Morning Break

Pre-function Area, Second Floor

Session I

Quantum Dots and Microcavities

11:00 Grzegorz Sek

I1 - Invited Talk

Universität Würzburg

Investigation of strong coupling between single quantum dot excitons and single photons in pillar microcavities

11:30 **Isabelle Philip**

I2 - Contributed Oral Presentation

Centre National de la Recherche Scientifique (CNRS)

Controlling coherence of single quantum dots embedded in a microcavity

11:45 Felix Hofbauer

I3 - Contributed Oral Presentation

Technische Universität München

High Quality Photonic Crystal Nano-cavities for Solid State Quantum Optics

12:00 Kevin Hennessey

I4 - Contributed Oral Presentation

University of California - Santa Barbara

Deterministic coupling of photonic crystal nanocavity modes to single quantum dot excitons

12:15	Paulo Santos Paul-Drude-Institut Acoustically tunable photonic structures based on the same structures.	15 - Contributed Oral Presentation microcavity polaritons		
12:30	Lunch (your own arrangements)			
	Session J Nanophotonics			
14:00	Naomi Halas Rice University Plasmon Hybridization: manipulating electromagne	J1 - Invited Talk		
14:30	Clivia Sotomayor Torres University College Cork Propagation and scattering of light in opal heteroji	J2 - Contributed Oral Presentation		
14:45	Gernot Fasching Vienna University of Technology Microcavity THz Quantum Cascade Laser	J3 - Contributed Oral Presentation		
15:00	Nitin Samarth J4 - Contributed Oral Presentation Pennsylvania State University Observation of Ultrahigh Spontaneous Emission Factor in GaAs(Ga,Al)As Microdisk Lasers			
15:15	Dan Dalacu J5 - Contributed Oral Presentation Institute for Microstructural Sciences, National Research Council, Canada Optical Characterisation of InAs/InP Quantum Dot Photonic Cavity Membranes			
15:30	Naokatsu Yamamoto National Institute of Information and Communications Technology Optical communications waveband lasing from Sb-based quantum dot vertical-cavity laser			
15:45	Stefan Strauf University of California - Santa Barbara High β, "self-tuned" photonic-crystal quantum-dot laser			
16:00	PC - Poster Session C Enchantment Ballroom, Second Floor			
	PC1-Magnetism and Spin in Nanostructures [II] PC2-Novel Organic and Semiconductor Devices			

PC3-Physics and Devices for Quantum Information & Communication

18:00

Daily Session Concludes

08:00	Continental Breakfast Pre-function Area, Second Floor			
07:30	Information Desk - MSS Elevator area, Second Floor continues until 14:00			
	Session K Magnetism, Spin & Transport in Nanostructures			
09:00	Paul Koenraad Eindhoven University of Technology Mn in GaAs studied by X-STM: from a st	K1 - Invited Talk ingle impurity to ferromagnetic layers		
09:30	Dirk Reuter Ruhr-Universität Bochum Mapping the hole wave function in InAs quantum dots by magneto-capacitance-voltage spectroscopy			
09:45	Ahsan Nazmul K3 - Contributed Oral Presentation University of Tokyo Ferromagnetism and anomalous Hall effect of Mn delta-doped GaAs/p-AlGaAs heterostructures			
10:00	Haruki Sanada Tohoku University Tunability of hyperfine interaction in n-0	K4 - Contributed Oral Presentation GaAs (110) quantum well		
10:15		•		
10:30	Morning Break Pre-function Area, Second Floor			
	Session L Magnetism and Spin in Nanostructures [II]			
11:00	Ilya Krivorotov Cornell University Dynamics of Nanomagnets Driven By Sp	L1 - Invited Talk oin Current		
11:30	Jonathan Finley Technische Universität Muenchen Dynamics of optically generated single e	L2 - Contributed Oral Presentation		
11:45	Paulo Santos Paul-Drude-Institut	L3 - Contributed Oral Presentation		

Spin transport and manipulation by mobile potential dots in GaAs quantum wells

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Friday, July 15, 2005

12:00 Yuichi Igarashi

L4 - Invited Talk

University of Tokyo
Observation of Hund's first rule in strongly coupled InAs self-assembled dots

12:30 Conference Concludes