Winter School on Nanoelectronic and Nanophotonics
Bilkent University
Ankara, Turkey
19-25 January 2008

	19 January 2009 Monday
15:00-19:00	**Registration**
19:00-20:00	**Dinner**

	20 January 2009 Tuesday
07:00-08:30	**Breakfast**
08:30-09:20	**Karl Heinz Heinig:** Fundamentals of Ion Beam Synthesis of Nanostructures
09:30-10:20	**Karl Heinz Heinig :** Formation of nanodots, nanowires, wormholes etc. driven by capillary forces-reaction pathways predicted by atomistic simulations.
10:20-10:50	**Coffee Break**
10:50-11:40	**Karl Heinz Heinig :** Spontaneous formation of regular nanopattern on surfaces during thin film deposion and ion beam erosion.
11:50-12:40	**Panagiotis Dimitrakis:** Nanoparticle memories: CMOS, Organic and hybrid approaches
12:40-14:00	**Lunch**
14:00-14:50	**Panagiotis Dimitrakis:** Nanoparticle memories: CMOS, Organic and hybrid approaches
15:00-15:50	**Panagiotis Dimitrakis:** Nanoparticle memories: CMOS, Organic and hybrid approaches
16:00-16:50	**Discussion**
16:50-19:00	**Free**
19:00-20:00	**Dinner**

	21 January 2009 Wednesday
07:00-08:30	**Breakfast**
08:30-09:20	**Raşit Turan:** Semiconductor Nanocrystals for Third Generation Solar Cells
09:30-10:20	**Ceyhun Bulutay :** Linear and Nonlinear Optical Properties and Carrier Dynamics in Si and Ge Nanocrystals"
10:20-10:50	**Coffee Break**
10:50-11:40	**Ceyhun Bulutay**: Linear and Nonlinear Optical Properties and Carrier Dynamics in Si and Ge Nanocrystals"
11:50-12:40	**Şefik Süzer:** Optics of Metallic Nanoparticles
12:40-14:00	**Lunch**
14:00-14:50	**Alain Dereux:** Surface Plasmon Photonics and Opto-Electronics
15:00-15:50	**Alain Dereux:** Surface Plasmon Photonics and Opto-Electronics
16:00-16:50	**Discussion**
16:50-19:00	**Free**
19:00-20:00	**Dinner**

	22 January 2009 Thursday
07:00-08:30	**Breakfast**
08:30-09:20	**Alain Claverie**:Recent developments of Transmission Electron Microscopy for the characterization of nanostructures.
09:30-10:20	**Alain Claverie**:Recent developments of Transmission Electron Microscopy for the characterization of nanostructures.
10:20-10:50	**Coffee Break**
10:50-11:40	**Erman Bengü:** In-situ TEM
11:50-12:40	**Servet Turan:** Nano-scale characterization by electron microscopy
12:40-14:00	**Lunch**
14:00-14:50	**Oğuzhan Gürlü:** Fundamental Concepts in Scanning Tunneling Microscopy and Spectroscopy
15:00-15:50	**Oğuzhan Gürlü:** Applications of STM/STS to Nanoelectronics/photonics
16:00-16:50	**Discussion**
16:50-19:00	**Free**
19:00-20:00	**Dinner**

	23 January 2009 Friday
07:00-08:30	**Breakfast**
08:30-09:20	**Oğuz Gülseren:** First Principles Modeling of Nano Structures I
09:30-10:20	**Ramon Aguado:** Quantum Shot Noise in Nanostructures
10:20-10:50	**Coffee Break**
10:50-11:40	**Ramon Aguado:** Quantum Shot Noise in Nanostructures
11:50-12:40	**Phillip Russell:**Two dimensional Bloch wave optics
12:40-14:00	**Lunch**
14:00-14:50	**Phillip Russell:** Photonic crystal fibres I: Basics
15:00-15:50	**Phillip Russell:** Photonic crystal fibres II: Applications
16:00-16:50	**Discussion**
16:50-19:00	**Free**
19:00-20:00	**Dinner**

	24 January 2009 Saturday
07:00-08:30	**Breakfast**
08:30-09:20	**Hartmut Roskos:** Semiconductor superlattices-From coherent carrier dynamics to novel THz amplifiers and lasers”
09:30-10:20	**Hartmut Roskos:** Semiconductor superlattices-From coherent carrier dynamics to novel THz amplifiers and lasers”
10:20-10:50	**Coffee Break**
10:50-11:40	**Alper Kiraz:**Triggered single photon sources and their applications in quantum key distribution and quantum information processing"
11:50-12:40	**Alper Kiraz:**Triggered single photon sources and their applications in quantum key distribution and quantum information processing"
12:40-14:00	Lunch
14:00-14:50	**Volkan Demir:** Semiconductor Nanocrystals for Solid State Lighting
15:00-15:50	**Volkan Demir:** Metal Nanoparticle coupling and Forster Energy Transfer in Semiconductor Nanocrystals for Solid State Lighting
16:00-16:50	**Discussion**
16:50-19:00	**Free**
19:00-20:00	**Dinner**

	25 January 2009 Sunday
07:00-08:30	**Breakfast**
08:30-09:20	**Özgür Özer:** Atomic Force Microscopy: Imaging and force spectroscopy
09:30-10:20	**Atilla Aydınlı:** Grating Based Plasmons
10:20-10:50	**Coffee Break**
10:50-11:40	**Wilfred van der Wiel:** Nanoelectronics:Besides and Beyond Moore
11:50-12:40	**Wilfred van der Wiel:** Nanoelectronics:Besides and Beyond Moore
12:40-14:00	**Lunch**
15:00-	**Departure to ILGAZ for Workshop Attendees by bus.**
	Bring your skiis!
	On second thought, check global warming first!
19:00-20:00	