

**24 June 2013 Monday**

09:00-17:00	Registration	
09:00-10:00	Opening Statements	
<b>Coffee Break 10:00-10:30</b>		
10:30-11:15	<b>Plenary Session 1 (Hadis MORKOÇ)</b>	Emission efficiency in InGaN LEDs at the fundamental level
11:15-12:00	<b>Plenary Session 2 (Federico CAPASSO)</b>	Quantum cascade lasers: Invention, demonstration, development and high-power and chemical sensing applications
<b>12:00-13:30 Lunch</b>		
12:15-13:15	<b>Tutorial</b>	<b>Atila AYDINLI "Plasmonics: From fundamentals to applications"</b>
12:15-13:15	<b>Tutorial</b>	<b>Mustafa ÇULHA "Surface-enhanced raman scattering of biological structures and organizations"</b>
<b>Session 1</b>		
13:30-14:00	<b>Invited Talk "C. Melik DEMİREL"</b>	Bio-inspired functional materials: Synthesis, design and fabrication
14:00-14:20	Özlem EĞRİ	Fabrication and characterization of poly(L-lactic acid)-g-starch/organoclay nanocomposites via intercalative self-catalytic graft copolymerization
14:20-14:40	Mehmet ULAŞAN	Development of smart nanoparticles as a dual drug delivery vehicle
14:40-15:00	Çiğdem Elif DEMİRCİ	Structural and magnetic characterization of MnFe <sub>2</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> nanoparticles
15:00-15:20	Seyid Javad MUSEVI	Preparation of PbS and PbO nanopowders from new Pb(II)(Saccharine) coordination polymers
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	<b>Invited Talk "Orhan GÜVENEN"</b>	Nanotechnology and world dynamics interactions
16:10-16:30	Khadijeh KHERLOU	Polyethylene blend/organoclay nanocomposites: Effect of organic modifier parameters on structure and properties
16:30-16:50	Sebnem YAZICI	Investigations of CZTS absorber layer on metallic flexible substrates for thin film solar cell applications
16:50-17:10	Khalid Mufasam BATOO	Extraordinary transport electrical and magnetic properties of Ferrite nanoparticles
<b>POSTER SESSION 1 (17:10-18:30)</b>		
<b>Opening Reception 19:00-22:00</b>		
<b>Session 2</b>		
13:30-14:00	<b>Invited Talk "Eyüp Sabri KAYALI"</b>	Fabrication and characterization of carbon nanotube reinforced magnesium matrix composites
14:00-14:20	Mustafa AYDIN	Thermal properties of Mg and Mg-CNT nanocomposite
14:20-14:40	Arda AYTİMUR	Fabrication and characterization of neodymium partially substituted calcium-cobalt oxide nanocrystalline ceramics
14:40-15:00	Mürsel EKREM	MWCNT-Ag nanoparticle modified epoxy adhesives: investigation of adhesive strength and electrical conductivity
15:00-15:20	Tevfik KÜÇÜKÖMEROĞLU	Tribological properties of MoS <sub>2</sub> -Ti coatings under vacuum and air environments
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	<b>Invited Talk "Fikretin ŞAHİN"</b>	Development of antimicrobial paints using metal loaded nanoporous zeolites
16:10-16:30	Cengiz KAYA	Processing and properties of nano Ag-doped alumina nanocomposites filters by extrusion

16:30-16:50	Vildan ÖZKAN	Comparison of nanocomposites and metal-ceramic composites prepared by conventional powder metallurgy method
16:50-17:10	Omer DONMEZ	Optical characterization of dilute GaBiAs alloys
<b>POSTER SESSION 1 (17:10-18:30)</b>		
<b>Opening Reception 19:00-21:00</b>		
<b>Session 3</b>		
13:30-14:00	<b>Invited Talk "Coşkun KOCABAŞ"</b>	Graphene based optoelectronics
14:00-14:20	Zafer ÇIPLAK	Synthesis of graphene/AgNPs nanocomposite by a sequential reducing method
14:20-14:40	Esra YAZICI	Investigation of the early stages of graphite oxide formation via modified Hummers method
14:40-15:00	Behzad HEIDARI	Why and how the zigzag edge of suspended graphene sheet where deformed
15:00-15:20	Fateme OSTOVARI	Graphen nanoribbon photodetector based on asymmetrical contacts
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	Esra KÜTÜK	Synthesis and rheology of water based graphene oxide nanofluids
16:10-16:30	Elaheh MOTAMEDİ	A new approach for production of nanoalumina/graphene oxide nanocomposite
16:30-16:50	Selen DEMİREL	Effects of deposition parameters and post-annealing on optical and structural properties of Nb2O5 thin films prepared by R.F. magnetron sputtering
16:50-17:10	Meryem POLAT	Photocatalytic NOx oxidation and storage (PhoNOS) catalysts
<b>POSTER SESSION 1 (17:10-18:30)</b>		
<b>Opening Reception 19:00-21:00</b>		
<b>Session 4</b>		
13:30-14:00	<b>Invited Talk "Gökhan KILIÇ"</b>	Development of tumor specific nanovectors targeting RGD for the treatment of uterine leiomyomata
14:00-14:20	Kouroush SALIMI	Nanofabrication and characterization of poly(MA-alt-1-octadecene)-g-PLA layered silicate nanocomposites with nanoporous and core-shell morphology
14:20-14:40	Mehmet Sinan BİLGİLİ	Environmental implications of engineered nanoparticles and nanowaste management
14:40-15:00	Emre YÜKSEL	Production and Characterization of EGF loaded PLGA nanofibrous membranes
15:00-15:20	Erdal ŞENOCAK	The Turkish public understandings of nanotechnology
<b>Coffee Break 15:20-15:40</b>		
15:40-16:00	<b>Invited Talk "Cengiz ÖZKAN"</b>	Nanostructured materials for advanced energy storage
16:00-16:20	Ünal DEĞİRMENÇİ	Energy transfer through coupled micro/nano-scale structures
16:20-16:40	Gökhan GİZER	Synthesis and hydrogen storage properties of an Mg-Ni-Mn-V alloy
16:40-17:00	Shahab Khameneh ASL	Fabricating and studying of photocatalytic water-splitting using $\text{La}_x\text{Sr}_{1-x}\text{Co}_y\text{Fe}_{1-y}\text{O}_{3-z}$ for hydrogen production
<b>POSTER SESSION 1 (17:00-18:30)</b>		
<b>Opening Reception 19:00-21:00</b>		
<b>25 June 2013 Tuesday</b>		
09:00-09:45	<b>Plenary Session 3 (Harald SCHNEIDER)</b>	Spectroscopy of low-dimensional semiconductors with a terahertz free-electron laser

09:45-10:30	<b>Plenary Session 4 "Carlo SIRTORI"</b>	Charged induced super-radiant optoelectronic devices
<b>Coffee Break 10:30-10:40</b>		
<b>Session 1</b>		
10:40-11:10	<b>Invited Talk "Russell COWBURN"</b>	Magnetic ratchet for 3-dimensional memory and logic
11:10-11:30	Rasim ÖZDEMİR	Effect of Cu concentration on the formation of Cu <sub>1-x</sub> Zn <sub>x</sub> shape memory alloy thin films
11:30-11:50	Ayşe ÖZCAN	Resistive memories based on atomic layer deposited TiO <sub>2</sub> thin films
11:50-12:10	Uğur Cem HASAR	Determination of electromagnetic properties of bianisotropic metamaterials using a new microwave technique
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Oğuz GÜLSEREN "Graphene: The rising star of nanotechnology"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Volkan Özgüz "Environmental, safety and health aspects of engineered nanoparticles"</b>
13:30-14:00	<b>Invited Talk "Tolga AYTUĞ"</b>	Nano-textured, optically transparent, durable superhydrophobic thin films
14:00-14:20	Somaiyeh JAFARPOUR	Superhydrophobic surface fabrication by using SiO <sub>2</sub> and microwave plasma coating method
14:20-14:40	Zeynep BAZ	Structural, electrical and optical properties of carbon thin films prepared by ECR MW plasma system
14:40-15:00	Evrin TUĞAY	Influence of deposition parameters on the structural and optical properties of the Si <sub>n</sub> x films prepared by PECVD method
15:00-15:20	Gizem DURAK	Investigation of electrochromic properties of Nb <sub>2</sub> O <sub>5</sub> on ITO thin films prepared by reactive RF magnetron sputtering
<b>Coffee Break 15:20-15:40</b>		
15:40-17:00	<b>Panel</b>	<b>Nanotechnology in the World and Turkey: 2013-2023</b> Dr. Arif Adlı (TUBITAK Vice President) Dr. Atilla Aydınlı (Bilkent University) Mr. Cengiz Ultav (Vestel Executive Board Member) Dr. Orhan Güvenen (Bilkent University, Former Undersecretary of State Planning Organization)
<b>POSTER SESSION 2 (17:00-18:30)</b>		
<b>Social Program: Turkish Communities Music Choir (20:00)</b>		
<b>Session 2</b>		
10:40-11:10	<b>Invited Talk "Adam CURTIS"</b>	Nanoscale topography and nanoscale biomechanics act on biological cells
11:10-11:30	Fatih BÜYÜKSERİN	Fabrication of Carbon Nanotube Membranes from Anodized Alumina Films for Neural Tissue Engineering
11:30-11:50	Senem YETGİN	Effect of Drying Method on Morphology of DNA on Mica Alumina and Silica Surfaces
11:50-12:10	Davood Chobfrosh KHOEI	Microwave chemical Functionalization of Carboxylated Multi-walled Carbon Nanotubes With 1, 4-Phenylendiamine, Phenylisocyanate and Phenylisothiocyanate and their toxicity investigations
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Oğuz GÜLSEREN "Graphene: The rising star of nanotechnology"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Volkan Özgüz "Environmental, safety and health aspects of engineered nanoparticles"</b>
13:30-14:00	<b>Invited Talk "Kalman VARGA"</b>	Interaction of strong laser pulses and atomic clusters
14:00-14:20	Sencer AYAS	Surface roughness effects on the surface plasmon resonance of multilayer structures

14:20-14:40	Ali Can ZAMAN	Synthesis and characterization of titanate nanotubes
14:40-15:00	S. Egemen KARABULUT	Facile and template-free synthesis of CuO nanostructures
15:00-15:20	Esra İÇER	Comparison of the strain behavior of nanoporous Cu
<b>Coffee Break 15:20-15:40</b>		
15:40-17:00	<b>Panel</b>	<b>Nanotechnology in the World and Turkey: 2013-2023</b> Dr. Arif Adlı (TUBITAK Vice President) Dr. Atilla Aydın (Bilkent University) Mr. Cengiz Ultav (Vestel Executive Board Member) Dr. Orhan Güvenen (Bilkent University, Former Undersecretary of State Planning Organization)
<b>POSTER SESSION 2 (17:00-18:30)</b>		
<b>Social Program: Turkish Communities Music Choir (20:00)</b>		
<b>Session 3</b>		
10:40-11:10	<b>Invited Talk "Kang L. WANG"</b>	Nonvolatile nanoelectronics – A new paradigm
11:10-11:30	Leyla Başak BÜKLÜ	Investigation of Negative Differential Resistance (NDR) in n-type GaAs
11:30-11:50	Shahab Khameneh ASL	Application of response surface methodology to studying the effect of production parameters on photo decolorization of red dye by nano wurtzite (ZnO) particles
11:50-12:10	Dilek DEMİROĞLU	A comparative study to improve electrical and photovoltaic properties of a-Si/c-Si and SnC a-Si/c-Si heterojunctions for photovoltaic applications
<b>12:10-13:30 Lunch</b>		
12:15-13:15	<b>Tutorial</b>	<b>Oğuz GÜLSEREN "Graphene: The rising star of nanotechnology"</b>
12:15-13:15	<b>Tutorial</b>	<b>Volkan Özgüz "Environmental, safety and health aspects of engineered nanoparticles"</b>
13:30-14:00	<b>Invited Talk "Tapas SEN"</b>	Recent development of surface engineering of nanoparticles in suspension for applications in bio-sensors, catalysis and forensic investigation
14:00-14:20	Aslı ÇELEBİOĞLU	Functionalization of electrospun nanofibers by the incorporation of supramolecular structure
14:20-14:40	Christian von BORCZYKOWSKI	An optical approach to single nanoassemblies from metallic and semiconducting nanoparticles
14:40-15:00	Shahab Bakhtiari GORAJOOBI	Nano-scale Tunability of Sub-wavelength Optical Couplers
15:00-15:20	Fatih BAYANSAL	Band gap engineering of nanostructured CuO films
<b>Coffee Break 15:20-15:40</b>		
15:40-17:00	<b>Panel</b>	<b>Nanotechnology in the World and Turkey: 2013-2023</b> Dr. Arif Adlı (TUBITAK Vice President) Dr. Atilla Aydın (Bilkent University) Mr. Cengiz Ultav (Vestel Executive Board Member) Dr. Orhan Güvenen (Bilkent University, Former Undersecretary of State Planning Organization)
<b>POSTER SESSION 2 (17:00-18:30)</b>		
<b>Social Program: Turkish Communities Music Choir (20:00)</b>		
<b>Session 4</b>		
10:40-11:10	<b>Invited Talk "Bülent ÖZPOLAT"</b>	Novel gene therapies by siRNA-based nanotherapeutics in cancer
11:10-11:30	Hacire UĞUR	Investigation of Physical Deformation In Collagen Fibril Structure Using Finite Element Method
11:30-11:50	Mehmet Emin ERGÜN	Biopolymer complexes from chitosan and carboxymethyl cellulose

11:50-12:10	Bariş Hulusi KARAKUŞ	pH and temperature exchange for alternative solutions on corneal cross-linking
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Oğuz GÜLSEREN "Graphene: The rising star of nanotechnology"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Volkan Özgüz "Environmental, safety and health aspects of engineered nanoparticles"</b>
13:30-14:00	<b>Invited Talk "Ahmet ORAL"</b>	State of the art atomic force microscopes (AFM) in the 20mK-300K temperature range
14:00-14:20	Musa Mutlu CAN	Characterization of ZnO and ZnGa2O4 semiconductors using AC impedance spectroscopy
14:20-14:40	Sadullah ÖZTÜRK	Investigation of electrical and gas sensing properties of hydrothermal ZnO nanorods
14:40-15:00	Mevlüt GÜRBÜZ	LPG sensing characteristics of electrospray deposited SnO2 nanoparticles
15:00-15:20	S. Mohammad ROZATI	Design and construction of thin film nanostructural indium oxide gas sensor
<b>Coffee Break 15:20-15:40</b>		
15:40-17:00	<b>Panel</b>	<b>Nanotechnology in the World and Turkey: 2013-2023</b>
		Dr. Arif Adlı (TUBITAK Vice President) Dr. Atilla Aydınli (Bilkent University) Mr. Cengiz Ultav (Vestel Executive Board Member) Dr. Orhan Güvenen (Bilkent University, Former Undersecretary of State Planning Organization)
<b>POSTER SESSION 2 (17:00-18:30)</b>		
<b>Social Program: Turkish Communities Music Choir (20:00)</b>		
<b>26 June 2013 Wednesday</b>		
09:00-09:45	<b>Plenary Session 5 "Ali ERDEMİR"</b>	Frontiers of nanomaterials and coatings for demanding tribological applications
09:45-10:30		
<b>10:30-10:40 Coffee Break</b>		
<b>Session 1</b>		
10:40-11:10	<b>Invited Talk "Xerman de la Fuente LEIS"</b>	Laser fabrication of nanotubes, nanoparticles and nanostructures
11:10-11:30	Tuğba ÖZTAŞ	Synthesis of colloidal 2D/3D MoS2 nanostructures by pulsed laser ablation in different liquids
11:30-11:50	Salamat BURZHUEV	Laser synthesized gold nanoparticles for high sensitive strain gauges
11:50-12:10	Abdülmelik DEMİREL	Comparison of GaN nanoparticle generation through nanosecond and femtosecond laser ablation in organic liquid environment
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Raşit TURAN "Energy harvesting using nanostructures in solar cells"</b>
13:30-14:00	<b>Invited Talk "Deniz ÜNER"</b>	Chemical reaction engineering in the nanoscale
14:00-14:20	Doğan ERBAHAR	Electrostatical properties of graphitic nanostructures
14:20-14:40	Sevim Ünügür ÇELİK	Surface functionalization of hexagonal boron nitride nanoparticle via sulfonic acid immobilized polyglycidyl methacrylate
14:40-15:00	Yeliz GÜRDAL	Atomically detailed modeling of metal organic frameworks
15:00-15:20	Ferda MİNDİVAN	Investigation of thermal properties of PUF/clay nanocomposites
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	<b>Invited Talk "Ümit DEMİR"</b>	Synthesis of nanostructured metal oxides by underpotentially controlled electrochemical technique

16:10-16:30	Uday Muhsin NAYEF	Characteristic Study of ZnO prepared on porous silicon
16:30-16:50	Fadya A. SAADOON	Exploration of the formation of supra-molecular aggregations for mixed systems of surfactants, with hydrotrope and some inorganic salts
16:50-17:10	Ruslan GARIFULLIN	Amyloid-like peptide nanofiber templated TiO <sub>2</sub> nanostructures as dye sensitized solar cell anode materials
<b>POSTER SESSION 3 (17:10-18:30)</b>		
<b>19:00-23:00 Gala Dinner</b>		
<b>Session 2</b>		
10:40-11:10	<b>Invited Talk "Peter GUTTMANN"</b>	Nanoscale spectroscopy and tomography with the HZB full-field transmission X-ray microscope
11:10-11:30	Gizem TURAN	Diffusion coefficients of alternative solutions on keratoconus cross-linking treatment
11:30-11:50	Emre ALTINAĞAÇ	Polystyrene particle manipulating using AC dielectrophoresis
11:50-12:10	Hamdi Şükür KILIÇ	Introduction of a new pulsed laser deposition (PLD) thin film production system
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Raşit TURAN "Energy harvesting using nanostructures in solar cells"</b>
13:30-14:00	<b>Invited Talk "Mohamed MISSOUS"</b>	(Sub)millimetre and terahertz wave semiconductor materials and devices for biological, medical and security screening
14:00-14:20	F. Rabia ÖZEMRE	Temperature dependence of ZnO nanotetrapods
14:20-14:40	İlkay DEMİR	Epitaxial Growth by Metal Organic Chemical Vapor Deposition (MOCVD) and Structural Characterization of GaAs Films on Ge Substrates
14:40-15:00	Fatma GÖDE	Effect of tri-sodium citrate on some physical properties of chemically deposited Tin Sulfide films
15:00-15:20	Kerim YAPICI	Numerical simulation of entry flow for the spherical non-Brownian concentrated particle suspension
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	<b>Invited Talk "Necati DEMİR"</b>	TÜBİTAK
16:10-16:30	Erdem DEMİRCİ	Temperature-dependent exchange bias properties of polycrystalline Pt <sub>x</sub> Co <sub>1-x</sub> /CoO bilayers
16:30-16:50	Telem ŞİMŞEK	Synthesis of MnB particles by sonochemical method
16:50-17:10	Fatih Bilge ATAR	Plasmonically enhanced hot electron based photovoltaic device
<b>POSTER SESSION 3 (17:10-18:30)</b>		
<b>19:00-23:00 Gala Dinner</b>		
<b>Session 3</b>		
10:40-11:10	<b>Invited Talk "Bekir AKTAŞ"</b>	Spin dynamics of interlayer exchange coupled magnetic multilayers
11:10-11:30	Vedat KESKİN	The anomalous hall effect on multilayered ultrathin Co/Pd films with perpendicular magnetic anisotropy (pma)
11:30-11:50	Umut PARLAK	Observation of exchange bias effect on different magnetization orientations of Ni/CoO multilayer thin Ffilms
11:50-12:10	Ceren Atila DİNÇER	Synthesis and characterization of magnetic nanoparticles modified by a silane compound
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Raşit TURAN "Energy harvesting using nanostructures in solar cells"</b>

13:30-14:00	<b>Invited Talk "Simion ASTILEAN"</b>	Plasmonic nanoparticles performing as multifunctional platforms in sensing, imaging and therapeutic applications
14:00-14:20	Husnu Emrah UNALAN	Transparent and flexible photodetectors with zinc oxide nanowires
14:20-14:40	Lütfi ÖZYÜZER	Bolometric measurements of terahertz waves from Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> +d mesas
14:40-15:00	Bülent ÇAVUŞOĞLU	Orthogonal bacteria communication (OBC) and quorum sensing based receiver (QSR) in molecular nano communication networks
15:00-15:20	Fatih BÜYÜKSERİN	Composite silica nanotubes for targeted cell death
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	<b>Invited Talk "Mohd Nizar HAMIDON"</b>	Nanotechnology for multisensory system and wireless sensor system
16:10-16:30	A. B. SELÇUK	Electrical properties of Al/PMMA/ZnO/P-Si diodes
16:30-16:50	Güven KORKMAZ	MBE growth and characterization of THz detector structures using quantum confined impurity atoms
16:50-17:10	M. Mustafa KAYKISIZ	NEMS-actuated silicon nanowire waveguide in-plane displacement sensor
<b>POSTER SESSION 3 (17:10-18:30)</b>		
<b>19:00-23:00 Gala Dinner</b>		
<b>Session 4</b>		
10:40-11:10	<b>Invited Talk "Şefik SÜZER"</b>	Surface science and nano science
11:10-11:30	Aysu AYDOĞAN	Heat transfer performance of TiO <sub>2</sub> -water nanofluids in an air-cooled microchannel heat exchanger
11:30-11:50	A. Nuri ÖZCIVAN	Synthesis of novel organic sensitizers in dye-sensitized solar cells: photovoltaic characterization and equivalent circuit modeling
11:50-12:10	Majid EBRAHİMZADEH	Microwave absorption properties of nanowires/paraffin composite
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Raşit TURAN "Energy harvesting using nanostructures in solar cells"</b>
13:30-14:00	<b>Invited Talk "Çetin ARIKAN"</b>	Physics and application of novel III-V semiconducting alloys
14:00-14:20	Feyza B. ORUC	Three dimensional thin film integrated circuits by atomic layer deposited semiconductors
14:20-14:40	Bülent ASLAN	Semiconductor shallow impurity level transitions for terahertz generation
14:40-15:00	Alaettin ÖZER	Mechanics of biomimetic systems contacting with rough surface
15:00-15:20	H. R. KHATAEE	Modeling of waiting time distribution in kinetic states of kinesin nanomachine
<b>Coffee Break 15:20-15:40</b>		
	<b>Sponsor Session</b>	
15:40-15:55	<b>Carl HATTON (Innova)</b>	
15:55-16:10	<b>Mems</b>	
16:10-16:25	<b>Mems</b>	
16:25-16:40	<b>Suss select sponsor</b>	
16:40-17:00	<b>Ata teknokent</b>	
<b>POSTER SESSION 3 (17:00-18:30)</b>		
<b>19:00-23:00 Gala Dinner</b>		

## 27 June 2013 Thursday

### Session 1

09:00-09:30	<b>Invited Talk "Aydın DOĞAN"</b>	
09:30-09:50	Yusuf YUSUFOĞLU	Development of Nano-Porous Materials for the Production of Vacuum Insulation Panels (VIPs)
09:50-10:10	Fevzihan BAŞARIR	Development of novel and high performance h-BN nano sheet based lubricants
10:10-10:30	İsmail TOPÇU	Sintering Behavior of Irregular Ti6Al4V Powder Reinforced with Carbon Nanotubes

### 10:30-10:40 Coffee Break

10:40-11:10	<b>Invited Talk "Khamirul Amin MATORI"</b>	Design and synthesis of nanomaterials for nanomedicine applications; drug/DNA delivery and nanosensor
11:10-11:30	Mehmet ÜSTÜNDAŞ	Encapsulation of Water and Oil Soluble Perfumes
11:30-11:50	Volkan SENAY	ZnO thin film synthesis by reactive radio frequency magnetron sputtering
11:50-12:10	Ali A. ENSAFİ	MgCr2O4 Nanoparticles Decorated MWCNTs-Modified Glassy Carbon Electrode, A New Electrochemical Sensor For Determination of Phenazopyridine

### 12:10-13:30 Lunch

<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Emir Baki Denkbaş "Nanotechnological approaches in diverse biomedical applications"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Hasan Efeoğlu "The future of electronics with memristor technology"</b>
13:30-14:00	<b>Invited Talk "İskender YILGÖR"</b>	Controlled wetting of polymer surfaces through the use of silica nanoparticles: From superhydrophilic to superhydrophobic
14:00-14:20	Ramazan ÖZTÜRK	Effect of Hollow and Solid Plasmonic Gold Nanoparticles on the Anthracene Photodimerization
14:20-14:40	Mustafa Selman YAVUZ	One-pot Facile Synthesis of "Green" Au Nanoparticles in an Aqueous Solution
14:40-15:00	Berrin İKİZLER	Effective Parameters on the Growth of ZnO Nanorod Arrays
15:00-15:20	Turan TAŞKÖPRÜ	Deposition of Nickel Oxide/Hydroxide Films by Chemical Bath Deposition Method

### Coffee Break 15:20-15:40

15:40-16:00	Aykut Evren YAVUZ	The Effects of Mechanical Deformations of TTAB+Water+Octanol Lyotropic System
16:00-16:20	Zeynep A. BÖLÜKOĞLU	EFFECTS OF ANODIZING PARAMETERS ON THE FORMATION OF TITANIUM DIOXIDE NANOTUBE ARRAYS
16:20-16:40	Alper Tunga ÇELEBİ	Analysis of Junctions in Carbon Nanotube Networks
16:40-17:00	Savaş YAĞLIKÇI	Comparison of carbon nanotubes produced by hot wall and cold wall chemical vapor deposition

### POSTER SESSION 4 (17:00-18:30)

### Session 2

09:00-09:20	Pinar KAYA	Analytical TEM Studies on Si3N4-B4C-SiC-Al composites produced by pressureless melt infiltration technique
09:20-09:40	Ahmet AVCI	Nano Membrane Fabrication via Electrospinning Technique Using TiO2 Produced By Different Methods
09:40-10:00	Bitir RAJAEI	Effect of Polyethyleneglycol on CH4 permeation through PEBA-based Nanocomposite Membranes
10:00-10:20	Sadek SHAKSHOOKI	Polystyrene/exfoliated Tin(IV)bis(Hydrogenphosphate) Nanocomposite Membranes

### Coffee Break 10:20-10:40

10:40-11:10	<b>Invited Talk "Dmitry A. GORIN"</b>	New type of nanostructured microobjects with remote controlling properties for theranostics applications
11:10-11:30	Morteza ASGHARI	Synthesis of SAPO-34 nanocrystals via hydrothermal method



11:30-11:50	Rasoul MALEKFAR	Characterization and phononic investigation of Ce- KTP nanocrystallites synthesized by modified sol-gel Pechini method
11:50-12:10	Bayram YILDIZ	Nano-enhanced lubricant in minimum quantity lubrication
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Emir Baki Denkbaş "Nanotechnological approaches in diverse biomedical applications"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Hasan Efeoğlu "The future of electronics with memristor technology"</b>
13:30-14:00	<b>Invited Talk "Mark Edward WELLAND"</b>	Nanoscience and human disease
14:00-14:20	Mustafa ÇULHA	Reducing cytotoxicity of metal oxide nanoparticles through surface chemistry
14:20-14:40	Mine ALTUNBEK	Effect of PLGA modification on agglomeration and cytotoxicity of ZnO, Al <sub>2</sub> O <sub>3</sub> and TiO <sub>2</sub> nanoparticles
14:40-15:00	Ashok VASEASHTA	Ethical issues in employing technology for tactical superiority in defense and security
15:00-15:20	Solen KINAYYIGIT	Surface chemistry studies on metal nanoparticles using MAS-NMR and IR spectroscopies
<b>Coffee Break 15:20-15:40</b>		
15:40-16:00	Ayşe Nur EROĞLU	Preparation and characterization of PHEMA and PHEMA-AA nanofiber membranes
16:00-16:20	Cansu NOBERI	Characterization of hydrothermally synthesized $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanoparticles and electrophoretic deposition onto metallic filter
16:20-16:40	Ali TOZAR	Structural and corrosion protection properties of electrochemically deposited nano-sized ZnNi alloy coatings
16:40-17:00	Amir FARZANEH	Effects of SiC particles size on corrosion properties of electroless Ni-P-SiC nanocomposite coatings
<b>POSTER SESSION 4 (17:00-18:30)</b>		
<b>Session 3</b>		
09:00-09:20	Ramazan ŞAHİN	Femtosecond laser ablation with besel beams and applications to plasmonics
09:20-09:40	Tayyar GÜNGÖR	Co doping induced structural and optical properties of sol-gel prepared ZnO thin films
09:40-10:00	Burçak ATAY	Investigation the photochromic transformations of nano titanium dioxide
10:00-10:20	Fatemeh OSTOVARI	Electromechanical resonance of the free-hanging graphene oxide sheets
<b>Coffee Break 10:20-10:40</b>		
10:40-11:10	<b>Invited Talk "Maryam TABRIZIAN"</b>	Enabling technology for label-free detection, separation, patterning and in vitro culture of cells
11:10-11:30	Sabri ALKIŞ	Semiconductor nanocrystal based UV/VIS range photodetectors
11:30-11:50	Ferhat NUTKU	Zero-bias offsets in I-V characteristics of the staircase type quantum well infrared photodetectors
11:50-12:10	Uğur SOYSAL	Hydrogen gas sensing properties of Pd doped TiO <sub>2</sub> nanowires
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Emir Baki Denkbaş "Nanotechnological approaches in diverse biomedical applications"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Hasan Efeoğlu "The future of electronics with memristor technology"</b>
13:30-14:00	<b>Invited Talk "Ş. Kaya ÖZDEMİR"</b>	Recent progress in high performance sensing using whispering gallery microcavities
14:00-14:20	Çağrı KAÇMAZ	Towards the fabrication of tactile sensor using a piezoelectric polymer
14:20-14:40	Mustafa ERYÜREK	Hydrogen gas sensor based on a microdisk optical resonator
14:40-15:00	Esen EFEOLU	Observation of bacterial death from SERS spectra
15:00-15:20	Abdullah BAYRAM	Gas sorption properties of ferrocene-branched chitosan derivatives
<b>Coffee Break 15:20-15:40</b>		

15:40-16:10	<b>Invited Talk "Gençağa PÜRÇEK"</b>	Nanostructuring of bulk materials by severe plastic deformation processes
16:10-16:30	Kübra GÜNEŞ	Investigation of elektrokinetic behaviour of micro-particles produced by CTA+ ions and Na-montmorillonite
16:30-16:50	Morteza ENHESSARI	Diffusion of metallic cations from aqueous to organic phase: A modified sol-gel method for homogeneous nanoceramic preparation
16:50-17:10	Ali MORSALI	Irreversible solid state transformations of 3D lead(II) coordination polymers; precursors for the preparation of lead(II) chloride/bromide/sulfide nanoparticles
<b>POSTER SESSION 4 (17:10-18:30)</b>		
<b>Session 4</b>		
09:00-09:20	Meliha Oktav BULUT	Corona discharge modification of wool fabrics for improvement of dyeing properties
09:20-09:40	Turgay AKBULUT	Low formaldehyde-emitting wood composites by nanotechnology
09:40-10:00	Reyhan SENGUR	The effect of carboxyl and hydroxyl MWCNTs on fouling properties of hollow fiber membranes
10:00-10:20	Seyid Javad MUSEVI	Zinc oxide nano-crystals assisted for carbon dioxide gas sensing; prepared by solvothermal and sonochemical methods
<b>Coffee Break 10:20-10:40</b>		
10:40-11:10	<b>Invited Talk "Seizo MORITA"</b>	Frontiers of atomically resolved force microscopy
11:10-11:30	Mehmet Selim HANAY	Single-protein nanomechanical mass spectrometry
11:30-11:50	Aziz KOLKIRAN	Near-field assisted quantum imaging
11:50-12:10	Ali İhsan GOKER	Designer thermal switches: Effect of the contact geometry on instantaneous thermoelectric transport through a strongly interacting quantum dot
<b>12:10-13:30 Lunch</b>		
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Emir Baki Denkbaş "Nanotechnological approaches in diverse biomedical applications"</b>
<b>12:15-13:15</b>	<b>Tutorial</b>	<b>Hasan Efeoğlu "The future of electronics with memristor technology"</b>
13:30-14:00	<b>Invited Talk "Alpan BEK"</b>	Control mechanisms on the properties of self-organized Ag nanoparticles for plasmonic solar cells
14:00-14:20	Hande ÇİFTPINAR	Plasmonic enhancement of solar cells by self-assembled silver nanoparticles
14:20-14:40	Ömer MERMER	Effect of some metallic elements addition on the structural, optical and photocatalytic properties of TiO <sub>2</sub> thin films
14:40-15:00	Nihal SARIER	Production and properties of polyurethane nanocomposite foams with improved thermal storage capacity
15:00-15:20	Shalima SHAWUTI	The electrical conductivity, microstructure and stability of the ceria based alkaline salt composite electrolyte for low and intermediate temperature SOFC
<b>Coffee Break 15:20-15:40</b>		
15:40-16:10	<b>Invited Talk "Sıddık İÇLİ"</b>	Organic photoelectronic technologies in energy efficiency
16:10-16:30	Mehdi Hamid VISHKASOUGHEH	Battery based stand alone photovoltaic system
16:30-16:50	Emel ÖNDER	Evaluation of newly developed dynamic heat storage materials for energy efficient buildings
16:50-17:10	Amir GHOBADI	A performance enhanced planar Schottky diode for terahertz applications: An electromagnetic modeling approach
<b>POSTER SESSION 4 (17:10-18:30)</b>		
<b>28 June 2013 Friday</b>		

9:30-10:00	<b>Invited Talk "Ayşe Begüm TEKİNAY"</b>	Regenerative medicine applications of peptide nanofibers
10:00-10:20	Ebru DEMİR	Subcooled flow boiling over nanostructured plates integrated into a rectangular channel
10:20-10:40	Onur SARAY	Improvement in stretch formability of ultra-fine grained materials by post-ECAE annealing
10:40-11:00	Yücel GÜLLÜCE	Designing of a high sensitive, nanophotonic open area fire detection system with next-generation extinguishing system
11:00-12:00	<b>Closure</b>	
13:30-17:00	<b>City Tour</b>	