



## NanoMats2009 CONFERENCE PROGRAM

### Registration and Opening

15:00-18:00; <b>Welcome-Registration - Süleyman Demirel Cultural Center (SDKM) / 09.08.2009 Sunday</b>		
<b>Opening Session/ Süleyman Demirel Cultural Center (SDKM) Conference Room / 10.08.2009 Monday</b>		
08:30-10:00	<b>Welcome-Registration, Coffee/Tea-Light Breakfast</b>	
10:00-10:15	<b>Opening Speech</b>	Prof. Dr. Hilmi Ünlü
10:15-10:30	Protocol	Prof. Dr. Muhammed Şahin, Rector
10:30-12:00	<b>PLENARY SESSION</b>	
10:30-11:15 <b>PL1</b>		<b>Laterally Injected Compact Optoelectronic Devices (PLENARY)</b> <i>Naci Balkan</i> <i>University of Essex, School of Computer Science and Electronic Engineering Colchester, UK</i>
11:15-12:00 <b>PL2</b>		<b>Functional Ceramic Thin Films and Heterostructures (PLENARY)</b> <i>Hanns-Ulrich Habermeier</i> <i>Max-Planck-Institut für Festkörperforschung, Stuttgart, Germany</i>
12:00-14:00		<b>LUNCH</b>

## NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conference Room (10.08.2009/Monday)**

Time/Session	Title/Authors
<b>Nanomagnetizm I</b>	<b>Session Chair</b>
<b>Invited 14:00-14:30</b>	<b>Magnetic nanocarbons</b>
<b>O1</b>	<p><b>Urszula Narkiewicz*</b><sup>1</sup>, Iwona Petech<sup>1</sup>, Joanna. Kurczewska<sup>2</sup>, Marek. Ceglowski<sup>2</sup> and Grzegorz. Schroeder<sup>2</sup></p> <p><sup>1</sup><i>West Pomeranian University of Technology, Institute of Inorganic and Chemical Eng, Pulaskiego 10, 70-322 Szczecin, Poland</i></p> <p><sup>2</sup><i>Adam Mickiewicz University, Faculty of Chemistry, Grunwaldzka 6, 60-780 Poznań, Poland</i></p>
<b>Invited 14:30-15:00</b>	<b>Computational Characterization of Energy Harvesting Nanostructures</b>
<b>O2</b>	<p><b>Tahir Cagin</b></p> <p><i>Artie McFerrin Department of Chemical Engineering, Texas A&amp;M University, College Station, TX 77845-3122, USA</i></p>
15:00-15:15	<b>Positive current noise cross-correlations in capacitively coupled double QDots with ferromagnetic leads: dynamical spin blockade</b>
<b>O3</b>	<p>Bing Dong,<sup>1*</sup> X. L. Lei<sup>1</sup> and N. J. M. Horing<sup>2</sup></p> <p><sup>1</sup><i>Department of Physics, Shanghai Jiaotong University, 800 Dongchuan Road, Shanghai 200240, China</i></p> <p><sup>2</sup><i>Department of Physics and Engineering Physics, Stevens Institute of Technology, Hoboken, New Jersey 07030, USA</i></p>
15:15-15:30	<b>Nanometer size particles of zinc-substituted cobalt ferrite for the magnetic hyperthermia</b>
<b>O4</b>	<p>M. Veverka<sup>1*</sup>, E. Pollert<sup>1</sup>, K. Závěta<sup>1</sup>, Z. Jiráček<sup>1</sup>, O. Kaman<sup>1</sup>, K. Knižek<sup>1</sup>, M. Maryško<sup>1</sup>, P. Veverka<sup>1</sup>, P. Kašpar<sup>2</sup></p> <p><sup>1</sup><i>Institute of Physics, AS CR, Czech Republic</i></p> <p><sup>2</sup><i>Czech Technical University, Czech Republic</i></p>
<b>COFFE/TEA BREAK</b>	
<b>Invited 16:00-16:30</b>	<b>Nano, Micro and Macromolecular Complex Structures by “Click Chemistry”: A New Synthetic Approach</b>
<b>O5</b>	<p>Yasemin Yuksel Durmaz, Binnur Aydogan, Muhammet U. Kahveci, M. Atilla Tasdelen, <b>Yusuf Yagci</b></p> <p><i>Istanbul Technical University, Department of Chemistry, Maslak, Istanbul 34469, Turkey</i></p>
16:30-16:45	<b>Synthesis and Magnetic Characterization of Uncoated and SiO<sub>2</sub>-coated MnFe<sub>2</sub>O<sub>4</sub> Nanoparticles</b>
<b>O6</b>	<p>Mustafa Coşkun,<sup>1*</sup> Mustafa Korkmaz<sup>1</sup>, Tezer Firat<sup>1</sup>, S. Ismat SHAH<sup>2</sup></p> <p><sup>1</sup><i>Department of Physics Engineering, Hacettepe University, Ankara 06800, Turkey</i></p> <p><sup>2</sup><i>Department of Physics and Astronomy, University of Delaware, Newark, 19716, Delaware, USA</i></p>
16:45-17:00	<b>Magnetic properties of manganites and cobaltites nanoparticles</b>
<b>O7</b>	<p>A. Wisniewski<sup>1*</sup>, V. Markovichi<sup>2</sup>, I. Fita<sup>1,3</sup>, R. Puzniak<sup>1</sup></p> <p><sup>1</sup><i>Institute of Physics, Polish Academy of Sciences, Al, Lotnikow 32/46, 02-668 Warsaw, Poland</i></p> <p><sup>2</sup><i>Department of Physics, Ben-Gurion University of the Negev, 84205 Beer-Sheva, Israel</i></p> <p><sup>3</sup><i>Donetsk, Institute for Physics and Technology, National Academy of Sciences, 83114 Donetsk, Ukraine</i></p>
<b>19:00-21:00</b>	<b>COCKTAILS (SDKM)</b>

## NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conf. Room II (10.08.2009/Monday)**

Time/Session	Title/Authors
<b>Nanomagnetizm II</b>	<b>Session Chair</b>
<b>Invited 14:00-14:30</b>  <b>O8</b>	<p><b>Selective-area growth of self-assembled ferromagnetic MnAs nanoclusters and cluster chains for novel planar magnetoelectronic devices.</b></p> <p><b>Matthias T. Elm,<sup>1*</sup></b> Shingo Ito,<sup>2</sup> Jan Stehr,<sup>1</sup> Hans-Albrecht Krug von Nidda,<sup>3</sup> Detlev M. Hofmann,<sup>1</sup> Shinjiroh Hara,<sup>2</sup> and Peter J. Klar<sup>1</sup></p> <p><sup>1</sup><i>Institute of Experimental Physics I, Justus-Liebig University, 35392 Giessen, Germany</i>  <sup>2</sup><i>Research Center for Integrated Quantum Electronics, Hokkaido University, Sapporo 060-8628, Japan</i>  <sup>3</sup><i>Experimentalphysik V, University of Augsburg, 86159 Augsburg, Germany</i></p>
<b>Invited 14:30-15:00</b>  <b>O9</b>	<p><b>Magnetic nanocarbons: from carbon foam to graphene ribbons</b></p> <p><b>Savas Berber</b></p> <p><i>Department of Physics, Gebze Institute of Technology, Gebze, Kocaeli 41400, Turkey</i></p>
15:00-15:15  <b>O10</b>	<p><b>Ferromagnetic Resonance Studies of Half Metallic CrO<sub>2</sub> Thin Films</b></p> <p>Aliye Intepe<sup>1,2*</sup>, S. Kazan<sup>2</sup>, M. Ozdemir<sup>3</sup>, B Rameev<sup>2</sup>, A. Gupta<sup>4</sup> and F. Mikailzade<sup>2</sup></p> <p><sup>1</sup><i>Department of Physics, Duzce University, Duzce, Turkey</i>  <sup>2</sup><i>Department of Physics, Gebze Institute of Technology, Kocaeli, Turkey</i>  <sup>3</sup><i>Department of Physics, Marmara University, Istanbul, Turkey</i>  <sup>4</sup><i>University of Alabama, Tuscaloosa, AL 35487, USA</i></p>
15:15-15:30  <b>O11</b>	<p><b>Ferromagnetic Mg-doped AlN</b></p> <p>M. Badaoui *, M. Belhadji.</p> <p><i>Département de Physique, Faculté des Sciences, Université ES-Senia, Oran, Algérie.</i></p>
15:00-15:15  <b>O12</b>	<p><b>High-pressure CVD: A novel growths technique for embedded InN alloys and nanostructures</b></p> <p>Mustafa Alevli, Goksel Durkaya, Ramazan Atalay, Max Buegler and Nikolaus Dietz</p> <p><i>Georgia State University, Department of Physics and Astronomy, Atlanta, GA 30303, U.S.A.</i></p>
15:15-15:30  <b>O13</b>	<p><b>Magnetic and microstructural properties of Yb<sub>2-x</sub>Co<sub>x</sub>O<sub>3</sub> nanoparticles and thin film system</b></p> <p>Y. Aktas<sup>1</sup> and L.Arda<sup>2,*</sup></p> <p><sup>1</sup><i>Institute for Graduate Studies in Pure and Applied Sciences, Marmara University, Goztepe, 34722, Istanbul, Turkey</i>  <sup>2</sup><i>Faculty of Arts and Sciences, Bahcesehir University, Besiktas, 34100, Istanbul, Turkey</i></p>
15:30-15:45 “  <b>O14</b>	<p><b>Microscopic Silicon Pillars</b></p> <p>Şeref Kalem</p> <p><i>TÜBİTAK-UEKAE, Gebze 41470 Kocaeli, Turkey</i></p>
<b>19:00-21:00</b>	<b>COCKTAILS (SDKM)</b>

## NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conference Room (11.08.2009/Tuesday)**

Time/Session	Title/Authors
<b>NanoFabrication I</b>	<b>Session Chair</b>
<b>Invited 9:00-9:30</b>  <b>O15</b>	<p><b>Terahertz devices and systems for the spectroscopic analysis of biomolecules</b>  <b>A J Vickers<sup>1</sup></b>, Y Ma<sup>1</sup>, P Reeves<sup>1</sup>, and R Dudley<sup>2</sup></p> <p><sup>1</sup><i>School of Computer Science and Electronic Engineering, The University of Essex, Wivenhoe Park, Colchester, Essex, CO4 3SQ, UK</i>  <sup>2</sup><i>The National Physical Laboratory, Enabling Metrology, Building 95, Teddington, Middlesex, TW11 0L, UK</i></p>
<b>Invited 9:30-10:00</b> <b>O16</b>	<p><b>Magnetic and Electronic Properties of Semiconducting Clathrates</b>  Weiping Gou,<sup>1</sup> Sergio Y. Rodriguez,<sup>1</sup> Yang Li,<sup>1,2</sup> and <b>Joseph H. Ross, Jr.<sup>1*</sup></b></p> <p><sup>1</sup><i>Department of Physics, Texas A&amp;M University, College Station, TX 77843-4242 USA</i>  <sup>2</sup><i>Department of Engineering Science and Materials, University</i></p>
10:00-10:15  <b>O17</b>	<p><b>PLA formation of Cu nanoparticles for antifungal composite applications</b>  M. <b>Iraji Zad<sup>1,2</sup></b>, S. M. Mahdavi<sup>1,2</sup>, B. Fattahi<sup>1</sup> and A. Kazemi<sup>3</sup></p> <p><sup>1</sup><i>Department of Physics, Sharif University of Technology, Tehran 11365-9161, Iran</i>  <sup>2</sup><i>Institute for Nanoscience and Nanotechnology, Sharif University of Technology, 11155-8639, Tehran-Iran.</i>  <sup>3</sup><i>Biochemical and bioenvironmental research center, Sharif university of Technology, Tehran, Iran</i></p>
10:15-10:30  <b>O18</b>	<p><b>Preparation of Polyethylene Glycol Intercalated Organoclays and Their Utilization In Polyurethane Nanocomposites</b>  Emel Önder<sup>1*</sup> and Nihal Sarier<sup>2</sup></p> <p><sup>1</sup><i>Faculty of Textile Technologies and Design, Istanbul Technical University, Inonu Caddesi, No: 87, Gumussuyu 34437, Istanbul, Turkey</i>  <sup>2</sup><i>Faculty of Engineering and Architecture, Istanbul Kultur University, Atakoy Kampus, Bakirkoy 34156, Istanbul, Turkey</i></p>
<b>COFFE/TEA BREAK</b>	
<b>Invited 11:00-11:30</b>  <b>O19</b>	<p><b>Design and Fabrication of Polymeric Nano-Composite MEMS Structures</b>  <b>Serdar Tumkor</b>, Daizong Li, Kishore Pochiraju, Souran Manoochehri</p> <p><i>Design &amp; Manufacturing Institute, Stevens Institute of Technology, Hoboken, NJ USA 07030</i></p>
11:30-11:45  <b>O20</b>	<p><b>Advantages and Limitations of Various Imaging Techniques for Identifying Organic and Inorganic Fibers</b>  Birgöl Benli<sup>*</sup>, M. Fatih Can, Mehmet S. Çelik</p> <p><i>Department of Mineral Processing Engineering, Istanbul Technical University, Istanbul 34469, Turkey</i></p>
11:45-12:00  <b>O21</b>	<p><b>Production of TiC/VC Dispersed W-Ni Nano Composites</b>  Aziz Genç<sup>*</sup>, Selim Coşkun, M. Lütfi Öveçoğlu</p> <p><i>Department of Metallurgical and Materials Engineering, Istanbul Technical University, Istanbul, 34469, Turkey</i></p>
12:00-12:15	<p><b>Utilization of Ultrafine Dispersed Diamond for Enhancement of Ballistic Performance of Vinyl Ester/Glass Fiber Composite</b></p>

<b>O22</b>	Şeyda Polat <sup>1*</sup> , Hilal Kemal Şenyılmaz <sup>2</sup> , Özlem Memiş <sup>1</sup> <sup>1</sup> <i>Department of Metallurgical and Materials Engineering, Kocaeli University, Izmit 41380, Turkey</i> <sup>2</sup> <i>7<sup>th</sup> Maintenance Center of Land Forces Command, Tuzla, Turkey</i>
12:15-12:30	<b>Fabrication of vertically free standing ZnO nanowires with high aspect ratio for gas sensor applications</b> Sadullah Öztürk <sup>1</sup> , Nevin Taştaltın <sup>1</sup> , Necmettin Kılıncı <sup>1</sup> , Hayrettin Yuzer <sup>2</sup> , Zafer Ziya Öztürk <sup>1,2*</sup> <sup>1</sup> <i>Gebze Institute of Technology, Department of Physics, 41400 Gebze Kocaeli, Turkey</i> <sup>2</sup> <i>TUBITAK Marmara Research Centre, P.O. Box 21, 41470 Gebze Kocaeli, Turkey</i>
<b>O23</b>	

## NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conf. Room II (11.08.2009/Tuesday)**

<b>Time/Session</b>	<b>Title/Authors</b>
<b>Lasers-Photonics I</b>	<b>Session Chair</b>
<b>Invited 9:00-9:30</b> <b>O24</b>	<b>Sensing Intermolecular Interactions in Full Colors of Fluorescence Emission: Nanotechnological Applications.</b> <b>Alexander P. Demchenko</b> , National Academy of Sciences of Ukraine;
<b>Invited 9:30-10:00</b> <b>O25</b>	<b>Femtosecond Lasers for Micro and Nano Fabrication</b> <b>Selçuk Aktürk</b> <i>Department of Physics, Istanbul Technical University, Maslak 34469 Istanbul, Turkey</i>
10:00-10:15 <b>O26</b>	<b>Experimental and DFT study of graphite oxidation and exfoliation.</b> Reza Rasuli <sup>1</sup> , Azam Irajizad <sup>1,2*</sup> <sup>1</sup> <i>Department of Physics, Sharif University of Technology, Tehran 11365-9161, Iran</i> <sup>2</sup> <i>Institute for Nanoscience and Nanotechnology, Sharif University of Technology, 11155-8639, Tehran, Iran.</i>
10:15-10:30 <b>O27</b>	<b>Concept of a Single Photon Source based on InP for Emission at 1.55 µm</b> R. Enzmann, <sup>1*</sup> C. Jendrysik, <sup>1</sup> M. Bareiß, <sup>1</sup> C. Grasse, <sup>1</sup> G. Böhm, <sup>1</sup> R. Meyer, <sup>1</sup> J.J. Finley, <sup>1</sup> and M.-C. Amann <sup>1</sup> <sup>1</sup> <i>Walter Schottky Institut, Technische Universität München, Am Coulombwall 3, 85748 Garching, Germany</i>
<b>COFFE/TEA BREAK</b>	
<b>Invited 11:00-11:30</b> <b>O28</b>	<b>Computer Controlled Scanning and Tiling Microscope System</b> <b>Fikret Hacizade</b> , Humbat Nasibov, Adalat Nasibov, Dadaş Rzayev and Ertan Balaban <i>TÜBİTAK UEKAE, Gebze, Kocaeli, 41470, Turkey.</i>
<b>11:30-11:45</b> <b>O29</b>	<b>Mechanism of electric ageing of ethylene-α-olefins copolymers with nanodimensional lateral branches.</b> Nigar Guseinova*, Zarifa Iskenderzade, Tarkhan Guseinov, Mehriban Gasanova <i>Department of Electronics, Azerbaijan Technical University, Baku 1073, Azerbaijan</i>
11:45-12:00 <b>O30</b>	<b>Self-Assembly of Multilayered Composite Membranes with Enhanced Membrane Selectivity from Highly Charged Polyelectrolytes for Fuel Cell Applications</b> S. Yilmaztürk <sup>1</sup> , H. Deligöz <sup>1*</sup> , M. Yılmazoğlu <sup>1</sup> , H. Damyan <sup>1</sup> , F. Öksüzömer <sup>1</sup> , N. Koç <sup>1</sup> , A. Durmuş <sup>1</sup> , M.A. Gürkaynak <sup>1</sup>

	<sup>1</sup> <i>Department of Chemical Engineering, Istanbul University, Avcılar-Istanbul 34320, Turkey</i>
12:00-12:15 <b>O31</b>	<b>Photoluminescence Properties of Cd<sub>x</sub>Zn<sub>1-x</sub>Te Quantum Dots in Glass</b> Çağdaş Allahverdi <sup>1,2</sup> , Han Athalin <sup>1*</sup> , Serge Lefrant <sup>1</sup> , Hikmet Yükselci <sup>2</sup> <sup>1</sup> <i>CNRS-Institut des Matériaux Jean Rouxel, Physique des Matériaux et Nanostructures, Nantes 44322, France</i> <sup>2</sup> <i>Department of Physics, Yıldız Technical University, İstanbul 34210, Turkey</i>
12:15-12:30 <b>O32</b>	<b>Estimating Near-Field Thermal Radiation between Two Flat Silicon Wafers with Surface Roughness</b> Mathieu Francoeur, <sup>1</sup> Mehmet Arik <sup>2</sup> and M. Pinar Mengüç <sup>1,3*</sup> <sup>1</sup> <i>Radiative Transfer Laboratory, Department of Mechanical Engineering, University of Kentucky, Lexington, KY 40506, USA</i> <sup>2</sup> <i>Thermal System Laboratory, General Electric Global Research Center, Niskayuna, NY 12309, USA</i> <sup>3</sup> <i>Özyeğin University, Altunizade, Uskudar, İstanbul 34662, Turkey</i>
12:30-12:45 <b>O33</b>	<b>Viscosity and thermal conductivity of nanofluids dispersed in various base fluids</b> Merve Yüksel, <sup>1</sup> Cem Levent Altan <sup>1</sup> and Seyda Bucak <sup>1</sup> <sup>1</sup> <i>Department of Chemical Engineering, Yeditepe University, İstanbul 34755, Turkey</i>

### NanoMats2009 PROGRAM

#### Süleyman Demirel Cultural Center (SDKM) Conference Room (11.08.2009/Tuesday)

Time/Session	Title/Authors
<b>Nanofabrication II</b>	<b>Session Chair</b>
<b>Invited 14:00-14:30</b> <b>O34</b>	<b>Magnetic/Photonic structures based on confined group III-nitride nanocomposites and heterostructures</b> <b>Nikolaus Dietz,</b> <sup>1*</sup> M. Alevli, <sup>1</sup> M. Buegler, <sup>1</sup> G. Durkaya, <sup>1</sup> M. Jamil, <sup>2</sup> and I.T. Ferguson <sup>2</sup> <sup>1</sup> <i>Department of Physics &amp; Astronomy, Georgia State University, Atlanta, GA, 30303, USA</i> <sup>2</sup> <i>School of Electrical and Computer Engineering, GaTech; Atlanta GA</i>
<b>Invited 14:30-15:00</b> <b>O35</b>	<b>Polarized XAFS Study for Semiconducting Nano Films</b> <b>Takafumi Miyanaga</b> <i>Department of Advanced Physics, Hirosaki University, Hirosaki, Aomori, 036-8561, Japan</i>
15:00-15:15 <b>O36</b>	<b>Hydrogen Sensor Based on Pd: WO<sub>3</sub> Films Prepared by Sol-gel Process</b> Somayeh Fardindoost <sup>1</sup> , Azam Irajizad <sup>1,2*</sup> , Seyed Mohammad Mahdavi <sup>1,2</sup> <sup>1</sup> <i>Department of Physics, Sharif University of Technology, Tehran 11365-9161, Iran</i> <sup>2</sup> <i>Institute for Nanoscience and Nanotechnology, Sharif University of Technology, 11155-8639, Tehran, Iran.</i>
15:15-15:30 <b>O37</b>	<b>New Methods in Processing of Nanoparticles: Colloidal Self-assembly to Thin Film Formation</b> Uğursoy Olgun <sup>*</sup>



	<i>Department of Chemistry, Sakarya University, Sakarya 54187, Turkey</i>
	<b>COFFE/TEA BREAK</b>
<b>Invited 16:00-16:30</b> <b>O38</b>	<b>Interlayer Exchange Coupling in Py/Cr Multilayer Thin Films</b> <b>Aktaş<sup>1</sup>, R.Topkaya<sup>1</sup>, M.Erkovan<sup>1</sup>, M.Özdemir<sup>2</sup>, O.Öztürk<sup>1</sup></b> <i><sup>1</sup>Department of Physics, Gebze Institute of Technology, Kocaeli, 41400, Turkey</i> <i><sup>2</sup>Department of Physics, University of Marmara, Istanbul, Turkey</i>
16:30-16:45 <b>O39</b>	<b>The effect of oxidation time on the characteristics of graphene oxide nanosheets</b> Burcu Saner, Fatma Dinç and Yuda Yürüm* <i>Faculty of Engineering and Natural Sciences, Sabanci University Orhanli, Tuzla, Istanbul 34956, Turkey</i>
16:45-17:00 <b>O40</b>	<b>Effect of various processing parameters on surface roughness of Titanium Nitride deposited steel</b> M. Ali <sup>1*</sup> , E. Hamzah <sup>2</sup> , I.A. Qazi <sup>3</sup> and M.R.M. Toff <sup>4</sup> <i><sup>1</sup>Department of Physics, COMSATS Institute of Information Technology (CIIT), Islamabad 44000, Pakistan</i> <i><sup>2</sup>Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Johor 81310, Malaysia</i> <i><sup>3</sup>National University of Sciences and Technology, Tamiz-ud-din Road, Rawalpindi, Pakistan</i> <i><sup>4</sup>Advanced Materials Research Center (AMREC), SIRIM Berhad, Kulim Hi-Tech Park, Kedah, Malaysia</i>
17:00-17:15 <b>O41</b>	<b>Effects of Nd<sub>2</sub>O<sub>3</sub> nano-islands prepared by PLD on NdBa<sub>2</sub>Cu<sub>3</sub>O<sub>7-δ</sub> thin films</b> Erdal Sonmez <sup>1*</sup> , Demet Tatar <sup>1</sup> , Bahattin Düzgün <sup>1</sup> , and Mehmet Ertugrul <sup>2</sup> <i><sup>1</sup>K. K. Education Faculty, Department of Physics, Ataturk University, Erzurum 25240, Turkey</i> <i><sup>2</sup>Engineering Faculty, Department of Electric-Electronic, Ataturk University, Erzurum 25240, Turkey</i>
17:15-17:30 <b>O42</b>	Syntheses and Properties of Novel ZnO-Polyamide Nanocomposite Films <i>Nilüfer Kıvılcım, Sema Vural, Süleyman Köytepe, Turgay SEÇKİN*</i> Department of Chemistry, University of Inonu, Malatya, TR Türkiye 44280
17:30-19:00	<b>POSTER SESSION I (SDKM)</b>
<b>19:30-22:00</b>	<b>CONFERENCE DINNER (İstanbul Univ. Baltalimanı Social Facilities)</b>

### NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conf. Room II (11.08.2009/Tuesday)**

<b>Time/Session</b>	<b>Title/Authors</b>
<b>Lasers –Photonics II</b>	<b>Session Chair</b>
<b>Invited 14:00-14:30</b> <b>O43</b>	<b>Molecular Beam Epitaxy (MBE) Growth and Characterisation of III-Nitride Quantum Wells and Dots.</b> <b>Leyla Çolakerol</b> Brookhaven National Laboratory/USA
14:30-14:45	<b>Investigation of the structure-function-spectroscopy relationship in self-assembled cyanine aggregates</b>

<b>O44</b>	Demet Gülen, <sup>1*</sup> Onur Atasoylu <sup>2</sup> and Serdar Özçelik <sup>2</sup> <sup>1</sup> Physics Department, Middle East Technical University, 06531 Ankara, Turkey. <sup>2</sup> Chemistry Department, İzmir Institute of Technology, Urla-35430 İzmir, Turkey.
14:45-15:00 <b>O45</b>	<b>Production and Characterization of Nickel Nanowires</b> Cansu Karahasanoglu <sup>2</sup> and Mustafa Urgan <sup>1</sup> <sup>1</sup> Department of Metallurgical and Materials Engineering, Istanbul Technical University, Istanbul 34469, Turkey <sup>2</sup> Material Science and Engineering Graduate Program, Istanbul Technical University, Istanbul 34469, Turkey
15:00-15:15 <b>O46</b>	<b>Fabrication of Grating Pairs in Diode Lasers</b> Bulent Cakmak <sup>1*</sup> Tevhit Karacali <sup>1</sup> Zhong Ren <sup>2</sup> and Siyuan Yu <sup>2</sup> <sup>1</sup> Department of Electrical and Electronics Engineering, Ataturk University, Erzurum 25240, Turkey <sup>2</sup> Room 4.21, University of Bristol, Merchant Venturers Building, Woodland Road, Bristol BS8 1UB, United Kingdom
15:15-15:30	
	<b>COFFE/TEA BREAK</b>
<b>Invited 16:00-16:30</b> <b>O47</b>	<b>Radiation-Induced Spin Dynamics in Molecular Nanomagnets</b> <b>Mustafa Bal,<sup>1*</sup></b> Jonathan R. Friedman, <sup>2</sup> W. Chen, <sup>3</sup> C. C. Beedle, <sup>4</sup> E. M. Rumberger, <sup>4</sup> and D. N. Hendrickson <sup>4</sup> <sup>1</sup> Department of Physics, Dartmouth College, Hanover, New Hampshire 03755, USA <sup>2</sup> Department of Physics, Amherst College, Amherst, Massachusetts 01002, USA <sup>3</sup> Department of Physics and Astronomy, Stony Brook University, Stony Brook, New York 11794, USA <sup>4</sup> Department of Chemistry and Biochemistry, University of California at San Diego, La Jolla, California 92093, USA
16:30-16:45 <b>O48</b>	<b>Reflectance and Photomodulated Reflectance Studies of Hot Electron Lasing and Light Emitting in Semiconductor Heterostructures</b> Ömer Dönmez*, Ayse Erol and M. Cetin Arıkan Istanbul University, Science Faculty, Department of Physics, 34134 Vezneciler, Istanbul, Turkey
16:45-17:00 <b>O49</b>	<b>Facile Synthesis and Magnetic Properties of Nanostructured CuFe<sub>2</sub>O<sub>4</sub> Nanorods</b> <b>Tuba Gürkaynak Altınçekiç<sup>*1</sup></b> , İsmail Boz <sup>1</sup> , Sinan Kazan <sup>2</sup> , Bekir Aktaş <sup>2</sup> <sup>1</sup> Department of Chemical Engineering, İstanbul University, İstanbul 34320, Turkey <sup>2</sup> Department of Physics, Gebze Institute of Tecnonology, Kocaeli, Turkey
17:00-17:15 <b>O50</b>	<b>Synthesis of samarium-doped CeO<sub>2</sub> nanopowders suitable for manufacturing solid oxide electrolytes</b> Tuba Gürkaynak Altınçekiç <sup>1</sup> , Tuba Karaca <sup>1</sup> , M. Ali Faruk Öksüzömer <sup>1</sup> <sup>1</sup> Department of Chemical Engineering, Istanbul University, 34320, Istanbul Turkey
17:15-17:30 <b>O51</b>	<b>Defect Tolerance in DNA Self-Assembled Networks</b> Sema Oktuğ and Birkan Polatoğlu İstanbul Technical University, Department of Computer Engineering, İstanbul 34469, Turkey



17:30-17:45 <b>O52</b>	<b>Temperature and current dependent matching effect in superconducting Nb film of square array of holes.</b> M. Kamran <sup>1</sup> , S. K. He <sup>2</sup> , W.J. Zhang <sup>2</sup> , W.H. Cao <sup>2</sup> , B.H. Li <sup>2</sup> , X.G. Qiu <sup>2</sup> <sup>1</sup> Department of Physics, COMSATS Institute of Information Technology, Islamabad, Pakistan <sup>2</sup> Inst. of Physics, Chinese Academy of Sciences and Beijing National Lab. Of Condensed matter Physics, Beijing100190, China
17:30-19:00	<b>POSTER SESSION I (SDKM)</b>
<b>19:30-22:00</b>	<b>CONFERENCE DINNER (İstanbul Univ. Baltalimanı Social Facilities)</b>

### NanoMats2009 PROGRAM

#### Süleyman Demirel Cultural Center (SDKM) Conference Room (12.08.2009/Wednesday)

<b>Time/Session</b>	<b>Title/Authors</b>
<b>NanoBiotech I</b>	<b>Session Chair</b>
<b>Invited 9:00-9:30</b>  <b>O53</b>	<b>Electrospun Conducting Nanofibers, their Composites and Devices</b> <b>Sancaktar, E.*</b> and Aussawasathien, D. ** *Polymer Engineering Department University of Akron, Akron, OH 44325-0301 – U.S.A. ** National Metal and Materials Tech. Center, Pathumthani 12120 - Thailand
<b>Invited 9:30-10:00</b>  <b>O54</b>	<b>Molecular Biomimetics – Peptide-based Materials for Nanotechnology and Medicine</b> Candan Tamerler, <sup>1,2</sup> Beth Traxler, <sup>2,3</sup> Christopher So, <sup>2,4</sup> Emre Oren, <sup>2,4</sup> Ram Samudrala, <sup>2,3</sup> and <b>Mehmet Sarikaya<sup>2,4,*</sup></b> <sup>1</sup> MOBGAM, Molecular Biology and Genetics Research Center, Istanbul Technical University, Maslak, Istanbul 06800, Turkey <sup>2</sup> GEMSEC, Genetically Engineered Materials Science and Engineering Center, <sup>3</sup> Department of Microbiology, <sup>4</sup> Materials Science and Engineering, University of Washington, Seattle, WA 98195, USA
10:00-10:15  <b>O55</b>	<b>Hydroxyapatite Deposition in Titanium Dioxide Nanotubes</b> F. Şermin Utku, <sup>1*</sup> Eren Seçkin <sup>2</sup> , Gültekin Goller <sup>2</sup> , Candan Tamerler <sup>1,3</sup> , Mustafa Ürgen <sup>2</sup> <sup>1</sup> Department of Molecular Biology and Genetics, Istanbul Technical University, Istanbul 06800, Turkey <sup>2</sup> Department of Metallurgical and Materials Engineering, Istanbul Technical University, Istanbul 06800, Turkey <sup>3</sup> Department of Materials Science & Engineering, University of Washington, Seattle, WA 98195 USA
10:15-10:30  <b>O56</b>	<b>Identification and Discrimination of Yeast Using Surface-Enhanced Raman Scattering</b> <u>İsmail Sayın</u> , <sup>1</sup> Mehmet Kahraman <sup>1</sup> and Mustafa Çulha <sup>1*</sup> <sup>1</sup> Department of Genetics and Bioengineering, Yeditepe University, İstanbul 34755, Turkey
	<b>COFFE/TEA BREAK</b>
<b>Invited 11:00-11:30</b>  <b>O57</b>	<b>GENETIC DESIGN OF INORGANIC BINDING PEPTIDES FOR BIONANOTECHNOLOGY</b> <b>Candan Tamerler<sup>1,2</sup>, Ayten Yazgan Karatas,<sup>1</sup> Mehmet Sarikaya<sup>2</sup></b> <sup>1</sup> MOBGAM, Molecular Biology and Genetics Research Center, Istanbul Technical University, Maslak, Istanbul 06800, Turkey

	<sup>2</sup> GEMSEC, Genetically Engineered Materials Science and Engineering Center, <sup>3</sup> Department of Microbiology, <sup>4</sup> Materials Science and Engineering, University of Washington, Seattle, WA 98195, USA
<b>11:30-11:45</b> <b>O58</b>	<b>Glyco-Nanoconjugate Probes For Cancer Diagnosis</b> Gulcan UNAK ADA <sup>1</sup> , Feriha TOKSOZ, E. Ilker MEDINE, Perihan UNAK <sup>2</sup> , Serhan SAKARYA <sup>3</sup> , <u>Suna TIMUR</u> <sup>1</sup> <sup>1</sup> Department of Biochemistry, Faculty of Science, Ege University, Bornova, Izmir, Turkey <sup>2</sup> Institute of Nuclear Sciences, Ege University, Bornova, Izmir, Turkey <sup>3</sup> Adnan Menderes University, Science and Technology Research and Application Center (ADU-BILTEM), Aydın, Turkey
<b>11:45-12:00</b> <b>O59</b>	<b>Kinetics and Thermodynamics of an Engineered Gold Binding Peptide on Gold Surface</b> Urartu O. S. Seker, <sup>1,2</sup> Brandon Wilson, <sup>1</sup> Christopher So, Margaret Tejani, <sup>3</sup> John S. Evans, <sup>3</sup> Candan Tamerler, <sup>1,2</sup> and Mehmet Sarikaya <sup>1</sup> <sup>1</sup> Materials Science and Engineering, Roberts Hall, Box: 352120, University of Washington, Seattle, WA 98195, USA; <sup>2</sup> Molecular Biology and Genetics, Istanbul Technical University, Maslak, Istanbul, Turkey; <sup>3</sup> Laboratory for Chemical Physics, New York University, 345 E. 24 <sup>th</sup> Street, New York, New York, 10010.
<b>12:00-12:15</b> <b>O60</b>	<b>Immobilization of Hirudin on PTFE Surface to Increase its Blood Compatibility</b> Sakip Onder <sup>1</sup> , Kursat Kazmanli <sup>2</sup> , Fatma Nese Kok <sup>1,3</sup> <i>1 Istanbul Technical University, Molecular Biology-Genetics and Biotechnology Program, MOBGAM, Maslak, Istanbul, Turkey</i> <i>2 Istanbul Technical University, Metallurgical and Materials Engineering Dept., Maslak, Istanbul, Turkey</i> <i>3 Istanbul Technical University, Molecular Biology and Genetics Dept., Maslak, Istanbul, Turkey</i>
<b>12:15-12:30</b> <b>O61</b>	<b>Biocompatible Antibiotics-Releasing Hydrogel System For Rabbit Penile Prosthesis Model</b> M. Yakup Arica <sup>1,2*</sup> , Gülay Bayramoğlu <sup>2,3</sup> , Devrim Tuğlu <sup>4</sup> and Ertan Batislam <sup>4</sup> <sup>1</sup> Faculty of Arts and Sciences, Department of Biology, Gazi University, 06500-Teknikokullar, Ankara, Turkey <sup>2</sup> Faculty of Arts and Sciences, Biomedical and Biomaterial Processing Laboratuvarı, 06500-Teknikokullar, Ankara, Turkey <sup>3</sup> Faculty of Arts and Sciences, Department of Chemistry, Gazi University, 06500-Teknikokullar, Ankara, Turkey <sup>4</sup> School of Medicine, Departments of Urology, Kırıkkale University, Kırıkkale, Turkey

## NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conf. Room II (12.08.2009/Wednesday)**

<b>Time/Session</b>	<b>Title/Authors</b>
<b>NanoBiotech II</b>	<b>Session Chair</b>
<b>Invited 9:00-9:30</b> <b>O62</b>	<b>21<sup>st</sup> Century Challenge for Spectroscopist: Is Nanotechnology the Solution?</b> <b>Mustafa Çulha</b> , Mehmet Kahraman, Fikretin Şahin Genetics and Bioengineering Department, Yeditepe University, Istanbul, 34100, Turkey
<b>9:30-9:45</b> <b>O63</b>	<b>A Microfluidic Sensor for Passive Intraocular Pressure Monitoring</b> F. Mert Ozkeskin <sup>1*</sup> , Nikos Chronis <sup>1,2</sup> <sup>1</sup> Mechanical Engineering, <sup>2</sup> Biomedical Engineering, University of Michigan-Ann Arbor, USA

9:45-10:00	<b>Bidirectional Switching of VO<sub>2</sub> Thin Films on Microstructured Surfaces</b> I. Karakurt, <sup>1*</sup> J. Boneberg <sup>2</sup> , P. Leiderer <sup>2</sup> , and R.F. Haglund, Jr. <sup>3</sup> <i><sup>1</sup>Department of Physics, Işık University, İstanbul 34980, Turkey</i> <i><sup>2</sup>Department of Physics, University of Konstanz, Konstanz 78467, Germany</i> <i><sup>3</sup>Department of Physics and Astronomy, Vanderbilt University, Nashville, Tennessee 37235-1807</i> <i>and Vanderbilt Institute for Nanoscale Science and Engineering, Vanderbilt University, Nashville, Tennessee 37235-1807, USA</i>
10:00-10:15	<b>AFM Study of Catalyst Fe Nanoparticles Subjected to a Hydrogen Pre-treatment for Efficient Growth of Carbon Nanotubes</b> S. Kır <sup>1,2</sup> , Serkan Buyukkose <sup>2</sup> , S. Okur <sup>2</sup> and <u>Y. Selamet</u> <sup>1,2,*</sup>  <i><sup>1</sup> Carbon Nanostructures Laboratory Department of Physics, Izmir Institute of Technology, Urla, Izmir, TURKEY</i> <i><sup>2</sup>Department of Physics, Izmir Institute of Technology, Urla, Izmir, TURKEY</i>
10:15-10:30	<b>COFFE/TEA BREAK</b>
<b>Invited 11:00-11:30</b>	<b>Electric Field Assisted Manipulation of Nanomaterials for Bio-Sensing Technologies</b> <b>Ramazan KIZIL</b> <sup>1</sup> , Christine D Keating <sup>2</sup> , Theresa S Mayer <sup>3</sup> <i><sup>1</sup>Department of Chemical Engineering, Istanbul Technical University, Istanbul 3446, Turkey</i> <i><sup>2</sup>Department of Chemistry, Penn State University, University Park, PA 16802,, USA</i> <i><sup>3</sup>Department of Electrical Engineering, Penn State University, University Park, PA 16802, USA</i>
11:30-11:45	<b>Investigation of Chemiluminescence Resonance Energy Transfer Between The Photoproteins and Fluorescent Proteins</b> <u>Hüseyin Tayran</u> <sup>1</sup> , Esra Yuca <sup>1</sup> , Berk Alkan <sup>2</sup> , Gültekin Göller <sup>2</sup> , Ayten Yazgan Karataş <sup>1</sup> <i><sup>1</sup>Department of Molecular Biology and Genetics, Istanbul 34469 Turkey</i> <i>MOBGAM-Molecular Biology and Genetics Research Center, Istanbul 34469 Turkey</i> <i><sup>2</sup>Department of Metallurgical and Materials Engineering, Istanbul 34469 Turkey</i>
11:45-12:00	<b>Use of 6-(Ferrocenyl)Hexanethiol and Gold Nanoparticles in Mediated Glucose Biosensing</b> <u>Dilek Odaci</u> , Nimet Yıldırım, Suna Timur <i>Ege University Faculty of Science Biochemistry Department 35100 Bornova-Izmir/TURKIYE</i>
12:00-12:15	<b>Frequency Dependent Dielectric Properties of Al/Polymer/PEDOT-PSS/ITO Heterojunction Diode</b> Recep Şahingöz <sup>1</sup> , Şemsettin Altındağ <sup>2</sup> and Hatice Kanbur <sup>1</sup> <i><sup>1</sup>Department of Physics, Bozok University, Yozgat 66100, Turkey</i> <i><sup>2</sup>Department of Physics, Gazi University, Ankara 06500, Turkey</i>
12:15-12:30	<b>Molecular dynamics study of the sintering of Cu and Au nanoparticles</b> H. H. Kart <sup>1,*</sup> , İ. Kara <sup>2</sup> and T. Çağın <sup>3</sup>

<b>O70</b>	<sup>1</sup> Department of Physics, Pamukkale University, Denizli 20017, Turkey <sup>2</sup> Pamukkale University, Faculty of Education, Department of CIET, 20070, Denizli-Turkey <sup>3</sup> Department of Chemical Engineering, Texas A&M University, Texas, TX 77845-3122, USA
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## NanoMats2009 PROGRAM

### Süleyman Demirel Cultural Center (SDKM) Conference Room (12.08.2009/Wednesday)

Time/Session	Title/Authors
<b>Nanosystems I</b>	<b>Session Chair</b>
<b>Invited 14:00-14:30</b>	<b>Friction and Adhesion at Atomic and Nanometer-Scale</b>
<b>O71</b>	<b>Marius Enachescu</b> <i>Lawrence Berkeley National Laboratory, University of California – Berkeley,  Materials Science Division, MailStop 66-200, 1 Cyclotron Road, Berkeley, CA 94720, USA</i>
14:30-14:45 <b>O72</b>	<b>Decreasement of Nanophase Separation on Plastics</b> <i>Sebnem Inceoglu, Metin H. Acar  Istanbul Technical University, Chemistry Department, Maslak 34469 Istanbul, Turkey</i>
14:45-15:00 <b>O73</b>	<b>Design of a Compact Nanostructure Integrated Pool Boiler for Microscale Cooling Applications</b> Ali Koşar <sup>1</sup> , Muhsincan Şeşen <sup>1</sup> , Cem Baha Akkartal <sup>1</sup> , Wisam Khudhayer <sup>2</sup> and Tansel Karabacak <sup>2</sup> <sup>1</sup> <i>Mechatronics Engineering Program,  Sabancı University, Orhanlı, Tuzla, Istanbul 34956 TURKEY</i> <sup>2</sup> <i>Department of Applied Science, University of Arkansas at Little Rock, AR, 72204, USA</i>
15:00-15:15 <b>O74</b>	<b>Noncovalent Functionalization of Multi-Walled Carbon Nanotubes with Pyrene Bearing Heteroarm Amphiphilic Star Polymer</b> Hakan Durmaz, Aydan Dag, Umit Tunca*, Gurkan Hizal* <i>Department of Chemistry, Istanbul Technical University, Maslak 34469, Istanbul, Turkey</i>
15:15-15:30 <b>O75</b>	<b>Reaction Properties of Ni/Cu(110) Surface Alloys</b> Erkan Demirci, <sup>1</sup> Christian Carbogno <sup>2</sup> , Axel Groß <sup>2</sup> and Adolf Winkler <sup>1</sup> <sup>1</sup> <i>Institute of Solid State Physics, Graz University of Technology, Petersgasse 16, A-8010 Graz, Austria</i> <sup>2</sup> <i>Institute for Theoretical Chemistry, Ulm University, D-89069 Ulm, Germany</i>
<b>COFFE/TEA BREAK</b>	
<b>Invited 16:00-16:30</b> <b>O76</b>	<b>Aspects of the Theory of Graphene</b> <b>Norman J. Morgenstern Horing</b> <i>Department of Physics and Engineering Physics, Stevens Institute of Technology, Hoboken, NJ 07030, USA</i>
16:30-16:45	<b>The Role of Cobalt Nanocatalysts on Production of Olefins from Synthesis Gas</b>

<b>077</b>	Masoud Haghshenas Fard <i>Razi Chemistry Research Center, Islamic azad Universiy, Shahreza Branch, Isfahan, Iran</i>
16:45-17:00 <b>078</b>	<b>Strained (19,0) and (20,0) SWCNTs: Mechanical and Electronic Properties</b> Gülay Dereli,* Necati Vardar and Önder Eyecioğlu <i>Department of Physics, Yildiz Technical University, İstanbul 34210, Turkey</i>
17:00-17:15 <b>079</b>	<b>Supported Nanocatalysts and Their Applications</b> <i>A.Neren Ökte*</i> , Şerife Akalın <i>Department of Chemistry, Boğaziçi University, İstanbul34342, Turkey</i>
17:15-17:30 <b>080</b>	<b>Complex-Radical Interlamellar Copolymerization of Pre-Intercalated Functional Monomers in Synthesis of Functional Copolymer/Organoclay Nanoarchitectures</b> Zakir M. O. Rzayev* <i>Department of Chemical Engineering, Faculty of Engineering, Hacettepe University, Beytepe, Ankara 06800, Turkey</i>
17:30-17:45 <b>081</b>	<b>Optical properties of thin films of MPTMS-capped CdS quantum dots</b> Kenan Koç, <sup>1,2*</sup> Fatma Z. Tepehan <sup>2</sup> and Galip G. Tepehan <sup>3</sup> <sup>1</sup> <i>Department of Physics, Yildiz Technical University, Esenler, 34220 Istanbul, Turkey</i> <sup>1</sup> <i>Department of Physics, İstanbulTechnical University, Maslak, 34469 Istanbul, Turkey</i> <sup>3</sup> <i>Faculty of Arts and Sciences , Kadir Has University, Cibali Campus, Fatih, Istanbul 34083, Turkey</i>
15:30-18:00	<b>POSTER SESSION II (SDKM)</b>
19:00-20:00	<b>Best student paper (oral and poster) award ceremony</b>
<b>20:00-23:00</b>	<b>TURKISH NIGHT</b>

### NanoMats2009 PROGRAM

**Süleyman Demirel Cultural Center (SDKM) Conf. Room II (12.08.2009/Wednesday)**

<b>Time/Session</b>	<b>Title/Authors</b>
<b>Nanosystems II</b>	<b>Session Chair</b>
<b>Invited 14:00-14:30</b>  <b>082</b>	<b>Polymerization of Pyrrole Derivatives on Polyacrylonitrile and P(AN-co-VAc) Matrix: Thin film and nanofiber formation</b> <b>A.Sezai SARAÇ<sup>1</sup>, Suat ÇETİNER<sup>2</sup></b> <sup>1</sup> <i>Department of Chemistry, Istanbul Technical University, Istanbul 34469, Turkey</i> <sup>2</sup> <i>Department of Textile Engineering, Istanbul Technical University, Istanbul 34437, Turkey</i>

<b>Invited 14:30-15:00 O83</b>	<b>First-Principles Studies on Size- and Shape-Dependent Nanoparticle Energetics</b> <b>Çetin Kılıç*</b> <i>Department of Physics, Gebze Institute of Technology, Kocaeli 41400, Turkey</i>
14:45-15:00 <b>O84</b>	<b>A simple route for preparation of Titania nanorod electrodes for flexible Dye sensitized solar cells</b> M. Samadpoor <sup>2</sup> , A. Irajizad <sup>1,2</sup> , N. Taghavinia <sup>1,2</sup> , M. Marandi <sup>1</sup> <sup>1</sup> ) <i>Physics Department, Sharif University of Technology, Tehran 14588, Iran,</i> <sup>2</sup> ) <i>Institute for Nanoscience and Nanotechnology, Sharif University of Technology, Tehran 14588, Iran</i>
15:00-15:15 <b>O85</b>	<b>Statistical Diameter Analysis of Electrospun Nanofibers</b> Erkan Biber <sup>1</sup> , Güngör Gündüz <sup>2</sup> and Üner Çolak <sup>3</sup> <sup>1</sup> <i>Polymer Science and Technology Division, Middle East Technical University, Ankara/ Turkey</i> <sup>1</sup> <i>Industrial Engineering Dept., Çankaya University, Ankara/Turkey</i> <sup>2</sup> <i>Chemical Engineering Dept., Middle East Technical University, Ankara/ Turkey</i> <sup>3</sup> <i>Nuclear Engineering Dept., Hacettepe University, Ankara/Turkey</i>
15:15-15:30 <b>O86</b>	<b>V<sub>2</sub>O<sub>5</sub> Nanowires Supported by Pd Microtubes Arrays as a Novel Host for Li Intercalation/Deintercalation</b> <i>Mansour Al hoshan<sup>a</sup>, and William H. Smyrl<sup>b</sup></i> <sup>a</sup> <i>King Abdullah Institute for Nanotechnology, Department of Chemical Engineering, King Saud University, Riyadh KSA.</i> <sup>b</sup> <i>Corrosion Research Center, Department of Chemical Engineering and Material Science, University of Minnesota, USA.</i>
15:30-18:00	<b>POSTER SESSION II (SDKM)</b>
19:00-20:00	<b>Best student paper (oral and poster) award ceremony</b>
<b>20:00-23:00</b>	<b>TURKISH NIGHT</b>