







CONFERENCE PROGRAM





		Monday 8th Feb. 2016 (On the Beach)	
18:00 - 21:00	Reception and Early Registration		
		FIRST DAY Tuesday 9th Feb. 2016	
08:00 - 8:30	Registration		
08:30 - 9:00	Opening Ceremony		
09:00 - 10:00	Exhibition Opening & Coffee		
10:00 - 10:40	★	KEYNOTE SPEECH1: Linking Nanoscale to GigaWatts <u>Jef Poortmans</u> , IMEC, Belgium	<div style="background-color: #0056b3; color: white; padding: 5px; display: inline-block;">HALL: MAHA</div> 
10:40 - 10:50	Break		
Session 1A	Track 1		Track 2
	Hall: EBTISAM Chair: Ahmad Umar (Najran University, KSA) Co-Chair: Jerzy Lukaszewicz (NCU, Poland)		Hall: SEHAM Chair: Mohamed Bououdina (Bahrain Univ., Bahrain) Co-Chair: Khalil Khanafer (ACK, Kuwait)
10:50 - 12:40	NM-1. Nano-Devices & Materials		E-3. Energy
10:50 - 11:20	🎤	INV: Raed Hashaikeh , Masdar Institute, UAE Nanofibers and modified cellulose morphologies: selected applications.	<div style="text-align: right;">🎤</div> INV: Ivan Gordon , IMEC, Belgium. Thin epitaxial silicon foils using porous-silicon-based lift-off for photovoltaic application 
11:20 - 11:40	Osman Adiguzel , Firat University, Turkey. Intelligent materials and functional aspects of shape memory alloys.		Abdulsalam Al-Hazza , KISR, Kuwait. Fabrication of solid state Nanobattery 
11:40 - 12:00	Tariq Aqeel , PAAET, Kuwait. Mesoporous Tin Dioxide containing Zinc Oxide Nano Particles		Ibrahim Elbadawy , AUM, Kuwait. Numerical study of laminar flow heat transfer of Al ₂ O ₃ and CuO nanofluids in the flat tube of a radiator










<p>12:00 – 12:20</p>	<p>Mohammad R. Alenezi, PAAET, Kuwait. Controlled Fabrication of ZnO Nanostructures for Sensing applications</p>	<p>Carsten Schwandt, Nizwa University, Oman. Production of Carbon Nanotubes from Graphite and their Application in Lithium Ion Batteries</p>
<p>12:20 – 12:40</p>	<p>Andrés M. Q. Pérez, KISR, Kuwait. Key Strategy on The Preparation of Nanosized Catalysts</p> 	<p>Saad Makhseed, Kuwait University, Kuwait. Imide-Linked Microporous Organic Framework Polymers for CO₂ Adsorption</p>
<p>12:40 – 13:30</p>	<p style="text-align: center;">Lunch Break</p>	
<p>13:30 – 14:10</p>	<p style="text-align: center;">★ KEYNOTE SPEECH 2: Bioelectronic Devices for Nano-Theranostics</p> <p style="text-align: right;">HALL: MAHA</p> <p style="text-align: center;">(Chenzhong Li, Florida International University, USA)</p>	
<p>14:10 – 14:20</p>	<p style="text-align: center;">Break</p>	
<p>Session 1B</p>	<p style="text-align: center;">Track 1</p>	<p style="text-align: center;">Track 2</p>
	<p>Hall: EBTISAM Chair: Fouzi Mouffouk (Kuwait Univ., Kuwait) Co-Chair: Ali Alhasan (University of California, USA)</p>	<p>Hall: SEHAM Chair: Ali Abdou (AUM, Kuwait) Co-Chair: Abdulaziz Alhargan (KACST-BADIR ICT, KSA)</p>
<p>14:20 – 15:30</p>	<p style="text-align: center;">M-4. Medicine IT-2. Information Technology</p>	
<p>14:20 – 14:50</p>	<p>INV: Michael Swain, Kuwait University, Kuwait. The Critical Role of Nano-structure on the Properties of Tooth Enamel</p> 	<p>INV: Samir F. Mahmoud, Kuwait University, Kuwait. Nanoantennas in the optical and infrared regime</p> 

<p>14:50 – 15:10</p>	<p>Ahmed Alalaiwe, Prince Salman Bin Abdulaziz University, <i>KSA</i>.</p> <p>The physicochemical properties of nanometals, what we have learned so far?</p>	<p>Mohammed Basha, Zewail City of Science and Technology, <i>Egypt</i>.</p> <p>Next Generation Terahertz Integrated System for Communications</p>
<p>15:10 – 15:30</p>	<p>Abdullah Al-Ali, Militray Hospital, <i>Kuwait</i></p> <p>Genotoxic potential of quantum dots as a function of their intracellular uptake</p>	<p>Khalid Batoo, King Saud University, <i>KSA</i>.</p> <p>Controlling of GMR effect in MgO based Magnetic Tunnel Junctions</p>
<p>15:30 – 16:30</p>		<p style="text-align: center;">Poster Session</p>
<p>16:30 – 17:00</p>		<p style="text-align: center;">Meet the Editors:</p> <p style="text-align: center;">Open discussions with our guest editors about how to publish your work in highly ranked journals</p> <p>Coordinators:</p> <ol style="list-style-type: none"> 1- Prof. Chenzhong Li, Florida International University, <i>USA</i>. 2- Prof. Ivan Gordon, IMEC, <i>Belgium</i>.

SECOND DAY
 Wednesday 10th Feb. 2016

09:00 – 09:40	★	KEYNOTE SPEECH 3: Hybrid Graphene-Metal Organic Framework Nanocomposite Materials for Applications in Heterogeneous Catalysis and Energy Conversion (M. Samy El-Shall, Virginia Commonwealth University, USA)	HALL: MAHA
09:40 – 09:50	Break		
Session 2A	Track 1		Track 2
	Hall: EBTISAM		Hall: SEHAM
Chair: Takashi Goto (Tohoku Univ. Japan) Co-Chair: Tariq Aqeel (PAAET, Kuwait)		Chair: Samir Mahmoud (Kuwait Univ., Kuwait) Co-Chair: Mohammed Basha (Zewail City, Egypt)	
09:50 – 11:00	NM-1. Nano-Devices & Materials		IT-2. Information Technology
09:50 – 10:20	🎤	INV: Jerzy P. Lukaszewicz , Nicolaus Copernicus University, Poland Natural Templating in Some Renewal Organic Precursors for Fabrication of Nanostructured Carbonaceous Matrixes	🎤
10:20 – 10:40	Hassan Al-Matrouk, KISR, Kuwait. Theoretical study of stable structures of MgH ₂ system and Properties 		Ayman Samara, Qatar Environment and Energy Research Institution, Qatar. Metrology in Semiconductor Nanofabrication: Importance, Challenges and Future Trends
10:40 – 11:00	Halema Al-Kandari, PAAET, Kuwait. Application of graphene/TiO ₂ nanocomposite in the treatment of wastewater contaminated with phenolic compounds 		Mohammed Basha, Zewail City of Science and Technology, Egypt. The Art of Microassembly of MEMS Devices for Optical Communications
11:00 – 11:20	Coffee Break		

11:20 – 12:00	★	<p>KEYNOTE SPEECH 4: Low leakage, high performing and low cost: challenge and perspective of peripheral transistor for DRAM and emerging memories</p> <p>(Alessio Spessot, IMEC, Belgium.)</p>	HALL: MAHA
12:00 – 12:10		Break	
Session 2B		Track 1	Track 2
		<p>Hall: EBTISAM</p> <p>Chair: Raed Hashaikeh (Masdar Institute, UAE) Co-Chair: Hassan Al-Matrouk (KISR, Kuwait)</p>	<p>Hall: SEHAM</p> <p>Chair: Michael Swain (Kuwait Univ., Kuwait) Co-Chair: Ahmed Alalaiwe (Salman Bin Abdulaziz Univ., KSA)</p>
12:10 – 13:20	NM-1. Nano-Devices & Materials		M-4. Medicine
12:10 – 12:40	🎤	<p>INV: Nour Tabet, Qatar Environment & Energy Research Institute, Qatar.</p> <p>On the size dependence of the toxicity and photocatalytic properties of oxide nanoparticles</p>	<p>INV: Fouzi Mouffouk, Kuwait University, Kuwait.</p> <p>Self-Assembled polymeric nanoparticles as new, smart contrast agents for cancer early detection using magnetic resonance imaging</p>
12:40 – 13:00	<p>Goran Pichler, Kuwait University, Kuwait.</p> <p>Nano-perturbors: C₆₀ acting on the barium atoms</p>		<p>Ali H. Alhasan, University of California, USA.</p> <p>Bioresponsive nanoparticles for prophylaxis of acute systemic inflammation</p>
13:00 - 13:20	<p>Khalid M. Hassan, Menoufia University, Egypt.</p> <p>Electrocatalytic oxidation of ascorbic acid, uric acid, and glucose at nickel nanoparticles/ poly (1-amino-2-methyl-9,10- anthraquinone) modified electrode in basic medium</p>		<p>Khalil Khanafer, Australian College of Kuwait, Kuwait.</p> <p>Evaluation of the effect of poly dendrimers on the porosity of epithelial monolayers</p>
13:20 – 14:20		Lunch Break	
Session 2C		Track 1	Track 2
		<p>Hall: EBTISAM</p> <p>Chair: Goran Pichler (Kuwait Univ., Kuwait) Co-Chair: Andrés Pérez (KISR, Kuwait)</p>	<p>Hall: SEHAM</p> <p>Chair: Ivan Gordon (IMEC, Belgium) Co-Chair: Ibrahim Elbadawy (AUM, Kuwait)</p>

14:20 – 15:40	NM-1. Nano-Devices & Materials		E-3. Energy	
14:20 – 14:50		<p>INV: Ahmad Umar, Najran University, KSA.</p> <p>Growth, Properties and Applications of Semiconductor Nanomaterials</p>		<p>INV: Tom Aernouts, IMEC, Belgium.</p> <p>Perovskite based PV modules for stand-alone and mechanically stacked applications</p> 
14:50 – 15:20		<p>INV: M. Sherif El-Eskandarany, KISR, Kuwait.</p> <p>Top-down approach for fabrication of high storage hydrogen Mg-based nanocomposite powders</p> 		<p>INV: Husam Alshareef, KAUST, KSA.</p> <p>Nanostructured electrode materials for energy storage applications</p>
15:20 – 15:40	<p>Masood Ahmad, Higher College of Technology-Muscat, Sultanate of Oman</p> <p>Materials/Nanomaterials for Dielectric, Photocatalytic and Fuel cell Application</p>		<p>Yasser Abdelreheem, Kuwait University, Kuwait.</p> <p>Optical properties of thermally grown and chemically etched ultra-thin silicon oxide films grown on crystalline silicon revealed by Nulling Spectroscopic Ellipsometry</p> 	
15:40 – 16:30		<p>Poster Session</p>		
16:30 – 17:00		<p style="text-align: center;">Meet the Editors:</p> <p style="text-align: center;">Open discussions with our guest editors about how to publish your work in highly ranked journals</p> <p>Coordinators:</p> <p>1- Prof. Takashi Goto, Tohoku University, Japan.</p> <p>2- Prof. Ahmad Umar, Najran University, KSA.</p>		
19:00 – 21:00	<p>Evening Social Program</p>			

THIRD DAY
Thursday 11th Feb. 2016

09:00 – 09:40	★	<p>KEYNOTE Speech 5: Plasmonic-Semiconductor Hybrid Nanomaterials Anchored into Graphene Sheets: Fabrication, Characterization and Ultrafast-Optical Response</p> <p>(<u>Mona Bakr Mohammed</u>, Cairo University, Egypt.)</p>	HALL: MAHA
09:40 – 09:50	Break		
Session 3A	Track 1		Track 2
	Hall: EBTISAM		Hall: SEHAM
	<p>Chair: Osman Adiguzel (Firat Univ., Turkey) Co-Chair: Khalid Hassan (Menoufia Univ., Egypt)</p>		<p>Chair: Carsten Schwandt (Nizwa University, Oman) Co-Chair: Yasser Abdelreheem (Kuwait Univ., Kuwait)</p>
09:50 – 11:50	NM-1. Nano-Devices & Materials		E-3. Energy
09:50 – 10:20	🎤	<p>INV: Takashi Goto, Tohoku University, Japan.</p> <p>Nano-catalyst by Chemical Vapor Deposition</p> 	🎤
			🎤
10:20 – 10:50	🎤	<p>INV: Mustafa Culha, Yeditepe University, Turkey</p> <p>Surface Chemistry strategies for safer nanomaterials</p>	🎤
10:50 – 11:10		<p>Morteza Mohammadzaheri, AUM, Kuwait.</p> <p>Nanopositioning, Current State and Future Perspective</p>	<p>R. I. Badran, Hashemite University, Jordan.</p> <p>Fabrication and characterization of quasi aligned <i>n</i>-ZnO nanowires on <i>p</i>-Silicon Substrate for heterojunction diode application</p>
11:10 – 11:30		<p>Aziz Amine, Hassan II University of Casablanca, Morocco.</p> <p>Recent applications of nanomaterial-based Biosensors</p>	<p>Bassam Alameddine, GUST, Kuwait.</p> <p>Synthesis of 2D Tapered Organic Materials for Transistors Applications and 3D Supramolecular Nanocages</p> 

<p>11:30 – 11:50</p>	<p>Masoud Rashidi, Australian college of Kuwait, Kuwait.</p> <p>Adsorption of nanoparticles as a strong management technique to characterize hydrocarbon/water interface for a water flooding recovery project</p>	<p>Moiz Syed Abdul, Umm Al Qura, KSA</p> <p>Temperature-Dependent charge transport mechanism for bulk hybrid solar cell</p>
<p>11:50 – 13:00 Lunch Break</p>		
<p>13:00 – 15:00</p>	<p>Short Workshop on Nanotechnology:</p> <ul style="list-style-type: none"> • Introduction • Nanofabrication • Nanocharacterization <p>Coordinator: Prof. Ali Abdou</p>	<p>Round Table Discussion:</p> <p>Impact of Nanotechnology on Economic Growth of the Gulf Region:</p> <ul style="list-style-type: none"> • King Abdullah Institute for Nanotechnology: Institutional experience (Dr. Aws I. Alshamsan) • Pursuing innovation and supporting entrepreneurs in the GCC (Dr. Abdulaziz Alhargan) • Dr. Khaled A. Mahdi General Secretary, Supreme Council for Planning and Development • Dr. Lubna Okasha Program Manager - Enterprise Support, Innovation & Enterprise Directorate, KFAS <p>Coordinator: Dr. Mohammad R. Alenezi</p>
<p>15:00 – 15:40</p>	<p>Closing Ceremony / Group Photo</p>	