Photovoltaics in the Arab Countries; Present and Future

Tuesday, December 27, 2011

within

The Arab Forum-2011 on
Industrial Applications of Nanotechnology

27-29th of December

Hilton Dream, Dreamland, 6th October
Cairo-Egypt
# Workshop Agenda

## Day 1
**Tuesday, December 27, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>8:30-10:00</td>
<td>Registration and Reception</td>
</tr>
<tr>
<td>10:00-10:45</td>
<td><strong>Opening Ceremony</strong></td>
</tr>
<tr>
<td></td>
<td>Dr. Mohamed Ben Youssif, Director of Arab Organization of Industrial Development and Mining</td>
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<td></td>
<td>JICA Representative in Egypt</td>
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<td></td>
<td>Prof. Ahmed Khairy, President of E-JUST</td>
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<td>H.E. Dr. Hussein Khalid, Minister of Higher Education</td>
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<td>H.E. Dr. Aly Sabry, State Minister of Military Production</td>
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<td></td>
<td>H.E. Dr. Nadia Zakhary, State Minister of Scientific Research</td>
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<tr>
<td>10:45-11:00</td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>11:00-11:45</td>
<td><strong>Keynote Address, main hall</strong></td>
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<tr>
<td></td>
<td>Nanotechnology: The Big Potential of the Very Small</td>
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<tr>
<td></td>
<td>Prof. Mostafa El-Sayed</td>
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<tr>
<td></td>
<td>Georgia Institute of Technology, Atlanta, USA.</td>
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</tbody>
</table>
**Workshop**
**PV in the Arab Countries; Present and Future**
**Tuesday, December 27, 2011**

### SESSION-1 (b)
**R & D on PV**

**Chairpersons**
Farouk Ismail (Egypt), Masaru Kuno (USA)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:50-12:10</td>
<td><strong>R &amp; D on PV in US</strong></td>
<td>Salah Bedair, NCS University, USA</td>
</tr>
<tr>
<td>12:25-12:40</td>
<td><strong>R &amp; D on PV in Japan</strong></td>
<td>Teijiro Ichimura, E-JUST, Egypt.</td>
</tr>
<tr>
<td>12:40-12:55</td>
<td><strong>Application of Nanoparticles and nanoporous structures in solar energy conversion</strong></td>
<td>W. Badawy, Cairo University, Egypt</td>
</tr>
</tbody>
</table>

### SESSION-2(b)
**Manufacturing & Application of PV**

**Chairpersons**
Salah Bedair (USA), Waheed Badawy (Egypt)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>13:00-13:15</td>
<td><strong>Manufacturing &amp; Application of PV in US</strong></td>
<td>Salah Bedair, NCS University, USA</td>
</tr>
<tr>
<td>13:15-13:30</td>
<td><strong>Manufacturing &amp; Application of PV in Egypt</strong></td>
<td>Yehia Bahnas, Cairo University, Egypt.</td>
</tr>
<tr>
<td>13:30-13:45</td>
<td><strong>PV Plant of E-JUST</strong></td>
<td>Ahmed Hamza, EJUSt, Egypt.</td>
</tr>
<tr>
<td>13:45-14:00</td>
<td><strong>Efforts for Promotion of PV in Egypt, Past, Present &amp; Future</strong></td>
<td>Salah Arafa, AUC, Egypt.</td>
</tr>
<tr>
<td>14:00-15:00</td>
<td><strong>Lunch</strong></td>
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</tbody>
</table>
### SESSION-3(b)

**Round Table Discussion**
**Strategy for R & D, Manufacturing and Promotion PV in AC**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>15:00 - 15:10 pm</td>
<td><strong>Barriers for the Promotion &amp; Use of PV</strong>&lt;br&gt;Yahia El-Mahgary, E-JUST, Egypt.</td>
</tr>
<tr>
<td>15:10 - 15:30 pm</td>
<td><strong>Round Table Discussion: Leaders</strong>&lt;br&gt;Farouk Isamil, Salah Bedair, Yehia Bahnas and Yahia El-Mahgary</td>
</tr>
</tbody>
</table>

**Additional Presentation by Eng. Ibrahim Samak from Germany**

Due to family circumstances Eng. Ibrahim Samak Managing Director of Engcotec GmbH, Germany could not join us in the WS. However, he will give his presentation from Germany on "Photovoltaics as a Future Sustainable Energy Option in the Arab World" immediately after lunch at 3pm. We shall be able to follow it on the projector and you can make questions to him.

**16:00 End of Workshop**
# Arab Forum-2011

## Industrial Applications of Nanotechnology

(27-29) December, 2011

Hilton Dream, Dreamland, City of 6th October

Cairo-Egypt

**Agenda**

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<tr>
<td>Prof. Mostafa El-Sayed, Georgia Institute of Technology, Atlanta, USA</td>
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<tr>
<td>Prof. Ahmed Zewail, Nobel Laureate, Caltech, USA</td>
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<tr>
<td>Former Prime Minister H. E. Prof. Essam Sharaf</td>
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<tr>
<td>Dr. Ahmed Bahgat, CEO of NanoTech &amp; BAHGAT Group</td>
<td></td>
</tr>
<tr>
<td>10:45am - 11:00am</td>
<td><strong>Coffee Break</strong></td>
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<td>Prof. Mostafa El-Sayed</td>
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<tr>
<td>11:45am - 12:30pm</td>
<td><strong>Science and Future Making</strong></td>
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<tr>
<td>Prof. Essam Sharaf</td>
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</tbody>
</table>
# SESSION-1, main Hall

Potential Application of Nanotechnology

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>12:30pm-1:00pm</td>
<td><strong>Nanomaterials &amp; Chemicals for Modern Building (CMB)</strong>&lt;br&gt;Dr. Kamal Mostafa, Chairman of CMB Group</td>
</tr>
<tr>
<td>1:00pm-1:30pm</td>
<td><strong>Fabrication of Nanomaterial Designs for Real Health Care &amp; Environmental Remediation</strong>&lt;br&gt;Prof. Sherif El-Safty, National Institute for Materials Science (NIMS), Tsukuba, JAPAN.</td>
</tr>
<tr>
<td>1:30pm-2:00pm</td>
<td><strong>Nanomaterials from Laboratory to Factory</strong>&lt;br&gt;Prof. Alaa Edris, Misr El Kheir Foundation</td>
</tr>
<tr>
<td>2:00pm-2:30pm</td>
<td><strong>Plasmonic Graphene Nanocomposite</strong>&lt;br&gt;Dr. Mona Bakr Mohamed, NanoTech &amp; E-JUST</td>
</tr>
<tr>
<td>2:30pm-3:30pm</td>
<td><strong>Lunch</strong></td>
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</table>

## Keynote Address, main Hall
Nanomaterials for PV fabrication

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>3:30pm - 4:15pm</td>
<td><strong>An Overview of Solution-based Semiconductor Nanowire</strong>&lt;br&gt;Prof. Masaru Kuno, University of Notre Dame, USA.</td>
</tr>
</tbody>
</table>

# SESSION-2, main Hall

Nanomaterials for PV fabrication

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>3:30pm - 3:50pm</td>
<td><strong>Application of Nanoparticles and nanoporous structures in solar energy conversion</strong>&lt;br&gt;Prof. Waheed Abd Allah Badway, Cairo University, Egypt</td>
</tr>
<tr>
<td>3:50pm - 4:10pm</td>
<td><strong>Design and Assembly of 1D Nanostructured Materials for Solar-Driven Water Splitting</strong>&lt;br&gt;Dr. Nagah Allam, Engineering and Computer Science Massachusetts Institute of Technology, USA.</td>
</tr>
<tr>
<td>4:10pm - 4:30pm</td>
<td><strong>Carbon Nanotube Manufacturing and Investment Opportunities</strong>&lt;br&gt;Dr. Mostafa Al Ashry, Egypt Nanotechnology Centre, Egypt</td>
</tr>
<tr>
<td>4:30pm - 4:50pm</td>
<td><strong>Potential of Photovoltaic industry in Egypt</strong>&lt;br&gt;Prof. Osama Tobail, Egypt Nanotechnology Centre, Egypt</td>
</tr>
<tr>
<td>4:50pm - 5:10pm</td>
<td><strong>Nano Materials for Green Energy</strong>&lt;br&gt;Prof. Abd El-Hady Kashyot, MuCSAT, Borg Al Arab-City, Alexandria</td>
</tr>
</tbody>
</table>
# Day 2
**Wednesday, December 28, 2011**

**Keynote Address, main hall**

9:00am - 9:45am  
*Graphene Based Nanocatalysis for Energy and Environmental Applications*  
Prof. M. Samy El-Shall, Virginia Commonwealth University, USA.

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### SESSION-1, main hall  
Nanomaterials for Biomedical Applications

**Chairpersons**  
Prof. Hidetoshi Koteru (Japan), Prof. Abd Allah Molikxia (Pharco Pharmaceuticals Cooperation)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 10:00am - 10:30am | *Medicinal Application of Green Tea Extract in Experimental Hepato-Fibrosis Therapy with a Brief Introduction to Chitosan-Green Tea Nanoparticles*  
Prof. Abdel Majeed Safer, Nanoscopy Science Center (NSC), Faculty of Science, Kuwait University, Kuwait |
| 10:30am - 11:00am | *Biomedical Applications of Magnetite Nanoparticles*  
Prof. Mamoun Mohamed, Royal Institute of Technology, Stockholm, Sweden. |
| 11:00am - 11:30am | *Nanomaterials for Gene Delivery*  
Prof. Abdel Rahman Zekri, National Cancer Institute, CU, Egypt |
| 11:30am - 12:00pm | *Photodiagnosis and Phototherapy using Nanoparticles*  
Prof. Mahmoud Abdel-Kader, President of GUC |
| 12:00pm - 12:15pm | Coffee Break |

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**Keynote Address, main hall**

12:15pm - 1:00pm  
*Nanomaterials for Thermoelectrical Applications*  
Prof. Mamoun Mohamed, Royal Institute of Technology, Stockholm, Sweden.

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### SESSION-2, main hall  
Characterization and Identification of Nanomaterials

**Chairpersons**  
Prof. Teijiro Ichimura (E-JUST) and Prof. Samy El Shall (VCU)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
</table>
| 1:00pm - 1:30pm | *Nanomaterials for Surface Raman Enhancement*  
Prof. Hassan Talaat, Ain Shams University |
| 1:30pm - 1:45pm | *Nano-Materials Characterization in Analytical Electron Microscopy*  
Dr. Tetsuo Oikawa, JEOL, Japan |
<table>
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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>1:45pm - 2:00pm</td>
<td>A State-of-the-Art Scanning Probe Microscope</td>
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<td>Dr. Ryohei Kokawa, Shimadzu, JAPAN.</td>
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<tr>
<td>2:00pm - 3:00pm</td>
<td>Lunch</td>
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<tr>
<td>3:00-3:45 pm</td>
<td>Nano-structured Polylactides as High-Performance Bio-based Materials</td>
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<td>Prof. Yoshiharu Kimura, Director of the Center for Fiber and Textile</td>
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<td>Science, Kyoto Institute of Technology, Japan</td>
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<tr>
<td>3:45-4:15 pm</td>
<td>Research and Development of Bio-based Polymers in the Center</td>
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<td>of Fiber and Textile Science, Kyoto Institute of Technology</td>
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<td></td>
<td>Prof. Hideki Yamane, Center for Fiber and Textile Science, Kyoto</td>
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<tr>
<td></td>
<td>Institute of Technology, Japan</td>
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<tr>
<td>4:15-4:30 pm</td>
<td>Coffee Break</td>
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**SESSION-4**

**Technical Textile, main hall**

**Chairpersons**

Prof. Ali Hebaish (Egypt), Prof. Ahmed El-Salamwy (Egypt)

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<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>4:30pm - 4:50pm</td>
<td>From Traditional to Technical textile; Opportunities and Challenges</td>
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<tr>
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<td>Dr. Mohamed Abu Iina, Textile Centre, Ministry of Industry and Foreign</td>
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<td></td>
<td>Trade, Egypt</td>
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<tr>
<td>4:50pm - 5:10pm</td>
<td>Functional Textiles</td>
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<td></td>
<td>Prof. Nabil Abd El-Basat, NRC, Egypt</td>
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<tr>
<td>5:10pm - 5:30pm</td>
<td>Applications of Textile Composites</td>
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<td>Prof. Ibrahim Shady, Mansoura University, Egypt.</td>
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<tr>
<td>5:30pm - 5:50pm</td>
<td>Development and Application of Medical Textile</td>
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<td>Fogue Miser Cooperation, Egypt</td>
</tr>
<tr>
<td>5:50pm - 6:10pm</td>
<td>New Trends in Technical Textile Applications</td>
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<td>Dr. Ahmed Hussien, Alexandria University, Egypt.</td>
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</table>
# Day 3

**Thursday, December 29, 2011**

## SESSION-1

**Chairperson**  
Prof. Ahmed Khairy (President of E-JUST)

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</thead>
</table>
| 8:30am - 9:30am | *Arab Initiative of Nanotechnology*  
Prof. Fathi Ben Shatwan, (AIDMO-Libya) |
| 9:00am - 9:30am | *Role of UNESCO in Nanotechnology Education*  
Dr. Nazar Hassan, UNESCO |
| 9:30am- 10:00am | *STCE and its role to apply Nanotechnology to develop local industries*  
Prof. Shokry Shokry, Director of STCE |

### Keynote Address

<table>
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<tr>
<th>Time</th>
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</table>
| 10:00am - 10:45am | *Nanostructured Materials for Catalytic and Biomedical Applications*  
Prof. Jackie Y. Ying, Institute of Bioengineering and Nanotechnology, Singapore |
| 10:45am - 11:00am | *Coffee Break* |

### Workshop

**MEMs and Device Fabrication**

## SESSION-2

**Chairpersons**  
Prof. Ahmed Abo-Ismail (E-JUST), Prof. Sherif Sedky (AUC)

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
</table>
| 11:00am - 11:45am | *Integration of Nanostructure with MEMs*  
Prof. Osamu Tabata, Department of Micromechanical Engineering, Kyoto University, Japan |
| 11:45am - 12:30pm | *MEMs in biomedical applications*  
Prof. Hidetoshi Kotera, Department of Micromechanical Engineering, Kyoto University, Japan |
| 12:30pm - 1:00pm | *Coffee Break* |

## SESSION-3

**Chairpersons**  
Prof. Osamu Tabata (Kyoto University) & Prof. Mahmoud Hashem (GUC)

<table>
<thead>
<tr>
<th>Time</th>
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</table>
| 1:00pm - 1:20pm | *MEMs at AUC*  
Prof. Sherif Sedky, Yousef Gamel Centre at AUC |
<table>
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<th>Time</th>
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<tbody>
<tr>
<td>1:20pm - 1:40pm</td>
<td><strong>Microfabrication Creates Microsystems</strong></td>
<td>Dr. Ahmed Fath El-Bab, Assuit University &amp; E-JUST</td>
</tr>
<tr>
<td>1:40pm - 2:00pm</td>
<td><strong>Microreaction Technology for Photocatalytic Synthesis of High-Value Added Compounds</strong></td>
<td>Prof. Yoshihisa Matsushita, Tokyo Institute of Technology &amp; E-JUST</td>
</tr>
<tr>
<td>2:00pm - 3:00pm</td>
<td><strong>Lunch</strong></td>
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**SESSION-4: Fundamentals and Applications of Nanomaterials**

**Chairpersons**
Prof. M. Ayad (E-JUST), Prof. Mona Abd El-Latif (CSAT)

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<tr>
<td>3:00pm - 3:20pm</td>
<td><strong>Graphene-Based Electrode for SuperCapacitor Application</strong></td>
<td>Dr. Ahmed. Abd El-Moneim, Department of Materials Science and Engineering, E-JUST, Egypt</td>
</tr>
<tr>
<td>3:20pm - 3:40pm</td>
<td><strong>Fabrication and Analytical Applications of Silica Nanotubes in Anodic Alumina Membrane</strong></td>
<td>Dr. Moataz Mekaway, Department of Materials Science and Engineering, E-JUST</td>
</tr>
<tr>
<td>3:40pm - 4:00pm</td>
<td><strong>First-Principles Simulation on Piezoresistivity for Silicon and Silicon Carbide Nanostructures</strong></td>
<td>Dr. Koichi Nakamura, Department of Materials Science and Engineering, E-JUST</td>
</tr>
<tr>
<td>4:00pm - 4:20pm</td>
<td><strong>Application of nanotechnology in polymer processing</strong></td>
<td>Prof. Abass Ezzat, Chemical and Petrochemical Department, E-JUST, Egypt</td>
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**Closing Session**
Prof. Esam Sharaf, Prof. Mostafa El-Sayed, Samy, Prof. Ahmed Khairy, Prof. Samy El-Shall & Dr. Nezar Hasan
Micro Electro Mechanical System Workshop
MEMS
"Microfabrication create Micro Systems"

Workshop Overview

Micro-Electro-Mechanical-Systems (MEMS) has been the focus of worldwide research and development efforts for the past ten years. These emerging fields involve fundamental research and the unique design and engineering of sophisticated integrated mechanical, electronic and optical systems on the micro-scale.

The scientific field of MEMS is multidisciplinary and involves the collaborative efforts of researchers from diverse fields such as physics, chemistry, mechanics, electronics, materials science and computer science. Extensive research in these disciplines is currently being directed towards obtaining a better understanding of the micro-scale phenomena encountered in MEMS devices.

The economical and practical benefits of MEMS applications are enormous. The technology is an offshoot of standard design techniques and batch fabrication methods used in the microelectronics chip industry. It enables the realization of very small, highly sophisticated, accurate and reliable systems at a very low cost. The development of a MEMS infrastructure and the promotion of MEMS-based industries are a priority across all the industrial countries. Now Egypt is accessing this field. The proposed workshop will offer a unique opportunity for researchers to interact and form new collaborations to enhance cooperation between researcher to promote the MEMS research and local high-tech industries in Egypt.

The workshop will focus on aspects of MEMS technology and development which are of particular interest to Egypt-Japan University of Science and Technology (E-JUST) and many other Egyptian universities. The workshop will combine keynote lectures, and small workshops and/or gatherings designed to promote collaboration between researchers.

For Participation
Kindly inform (Before 17/12/2011)

Dr. Ahmed Rashad Fath El-Bab
Mobile: +2 0109 1359 123
Email: ahmed.rashad@ejust.edu.eg

Speakers

Prof. O. Tabata - Kyoto University - Japan
Prof. Kotera - Kyoto University - Japan
Prof. S. Sedki - AUC - Egypt
Dr. Fath El-Bab - Assiut University - Egypt (Coordinator)

“Integration of Nanostructure with MEMS”
“MEMS at AUC”
“Micro-fabrication creates Micro systems”
PV ITS PRESENT & FUTURE IN ARAB COUNTRIES

One-day Workshop 27.12.2011

Purpose

Photovoltaic's (PV) is finally gaining solid ground in the Arab Countries thanks to the abundant solar radiation. However, no national strategy yet exists in most of the Arab Countries for R & D, Manufacturing and Application or for the Promotion of the Use of PV. Egypt-Japan University for Science & Technology (E-JUST) is arranging a Workshop for addressing these topics. Top scientists in the field of PV are invited from Egypt, Europe, Japan and US to the WS to deliver presentations and take part in the formation of the three-pronged National Strategy of the Arab Countries. The Strategy could then be adapted by each country according to its circumstances, and recommended for adoption.

The conference program will include sessions on

- Current R & D on PV in the Arab countries, Europe, Japan and USA
- The Technology of Manufacturing of PV in the Arab countries, Europe, Japan and USA in the Arab countries, Europe, Japan and USA
- Promotion Plans of and Activities for the Use PV in Egypt, Europe, Japan & USA.
- In the final Session an outline of a Comprehensive Strategy for R & D, Manufacturing and Promotion of PV will sought.

Lecturers

- Prof. Selah Bedair (USA)
- Prof. Yehia Bahnas (Egypt)
- Eng. Ibrahim Samak (Germany)
- Prof. Teijiro Ichimura (Japan)
- Prof. Fouad Abu El-fotuh (Egypt-USA)
- Dr. Ahmed Abd El-Monein (Egypt)
- Prof. Yehia ElMahgary (Egypt-Finland)
- Prof. Moataz Soliman (Egypt)

There will be a possibility to follow the lectures live on the internet.

For participating kindly inform (Before 17/12/2011)
Ms. Nancy Arief
E-mail: rm21@yahoo.com
Mobile: (+2) 01223512536
Industrial Applications of Nanotechnology

Promising Investment Opportunities for Industrial Applications of Nanotechnology

27 - 29 December 2011

Hilton Dream - Dreamland - 6th October City

under the auspices of

Minister of Industry and Foreign Trade
Minister of Higher Education
Minister of Scientific Research
Minister of Military Production

Objectives
- Raise awareness of nanoscience and nanotechnology
- Shed light on the industrial applications of nanotechnology on the global level
- Recognition of Arab experiences in the field of research and applications of nanotechnology and the promising opportunities for industrial applications for these technologies
- Networking scientists and experts Forums Diaspora with their counterparts in the Arab world
- Transfer the international experience in bridging the gap between scientific research institutions and industry to Arab World
- Finding opportunities for Arab cooperation in this field

Topics
- Arab experiences of research and applications of nanotechnology (country papers)
- Industrial applications and investment opportunities of nanotechnology on the global level and Arab initiatives to establish specialized companies (of process)
- The following applications of nanotechnology will be highlighted: Other applications such as water desalination, surface coating, construction materials, cement, Nanomedicine, Fertilizers and pesticides, food industries, Petrochemicals will be discussed.

Extended Workshops
- Strategy of Photovoltaics (27 December)
- Textiles and technical textile (26 December)
- MEMS and micro device fabrication (29 December)

Who to participate and prepare working papers
- Decision makers at Ministries of industry and ministries of scientific research in Arab countries
- Scientific societies worldwide and in the Arab countries
- Industrial companies all over the Arab countries (textile industries - food industries, pharmaceutical industries, petrochemicals ....etc.)
- Businessmen and Arab investors
- Arab experts and scientists specializing in the field of nanoscience and nanotechnology in the Arab world and diaspora

Invited Speakers
Prof. Mostafa El-Sayed (USA)
Prof. Samy El-Shall (USA)
Prof. Sumio Iijima (Japan)
Prof. Yoshiharu Kimura (Japan)
Prof. Masaru Kuno (USA)
Prof. Mamoun Mohamed (Sweden)
Prof. Sei-Ichi Nishimoto (Japan)
Prof. Fathi Ben Shatwan (AIDMO-Libya)
Prof. Osamu Tabata (Japan)
Prof. Jackie Y. Ying (Singapore)
Prof. Abdel Majeed Saeed (Kwait)
Prof. Salah Bedair (USA)
Prof. Fouad Abu El-Flouh (Egypt)

Scientific Committee
Prof. Yehia Mohamed El-Mahgary
Dr. Mona Bakr Mohamed
Dr. Ahmed Abd El-Moneim
Dr. Ahmed Fathel bab
Dr. Mohamed Abou Ilana

In collaboration with
- Academy of Scientific Research and Technology
- Arab Union of Textile Industries
- City of Scientific Research and Technology
- Application
- Japan International Cooperation Agency
- Japan Society for the Promotion of Science
- Pharco Corporation
- Science Age Society
- The Arab Organization for Industrialization
- Kyoto Environmental Nanotechnology Cluster
- Technology and Innovation Council, Ministry of Trade and Industry, Textile Development Center
Fees

Egyptian: **1000 EGP** (Industry) (Accommodation: NOT included)
Egyptian: **800 EGP** (Academic) (Accommodation: NOT included)
Egyptian: **3000 EGP** (Accommodation/3 nights at Hilton Dream: included)
Non-Egyptian: **600 $** (Accommodation: NOT included)
Non-Egyptian: **950 $** (Accommodation/3 nights at Hilton Dream: included)

Fees will cover the following:
- Attendance of the forum
- Bag containing documents of the forum and attendance certificate
- Escorting (from/to: Airport - Hilton Dream Hotel)
- Lunch & coffee breaks all days the forum
- Shuttle buses (from/to: Main gate of Cairo University - Hilton Dream Hotel, Dreamland)

For Registration

**Bank Name**: Commercial International Bank (Egypt) - CIB
**Branch**: Mina Garden city
**Acc. No.**: 7450001024
**Acc. Name**: NanoTech For Electronic Photo Rese (Conferences)
**Swift Code**: CIBEEGCX074

For Tour Purpose: Consult the following
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Contact us

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Egypt-Japan University for Science and Technology (E-JUST)
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Email: pr@ejust.edu.eg
NanoTech has the latest update from JEOL, The High Resolution Transmission Electron Microscope (HRTEM) JEM-2100.

This great facility is not just as part of our system for quality assurance of nanomaterials production, but it services also the industrial and scientific community for inspecting and characterizing nanomaterials involved in industry and scientific research.

Operating at 200 kV and equipped with a Gatan’s high resolution CCD camera, our equipment can go deep inside your material till the atomic scale with spatial resolution reaching 0.14 nm.

NanoTech will offer courses to introduce and train young scientists, researchers, engineers and students to nanotechnology.

Available Packages

- Introduction to Nanotechnology
- Nanomedicine & Nanotechnology for Biomedical Applications
- Nanotechnology for Engineering
- Nanotechnology for Revolutionizing Agriculture and Food industries
- New Nanomaterials for Oil Refining and Petrochemical Industries
- Nanotechnology in Textiles Finishing

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NANO TECH Portfolio 2011
We have obligations towards:
- OUR Society “Raisie public awareness”
- Young researchers “Capacity building and get introduced to Nanotechnology field”
- Industry “Nanotechnology based economy”
- Stakeholders “Enhance the quality of products”
- OUR Employees “Give them friendly working environment and better lifestyle”

R&D projects:
- Water Desalination
- Renewable and Green Energy (Solar Cells)
- Biomedical Imaging

We can offer:
- Scientific and technical consultation
- Specialized training in Nanotechnology through series of seminars, workshops, practical training etc.
- Designing and fabrication of nanomaterials according customers needs for different applications.
- Characterize your nanomaterials using Transmission Electron Microscopy (TEM)

Biomedical Applications

Nanotech will address the state of the art in nanotechnologies and nanomedicine and their ongoing applications focused on addressing the use of nanomaterials in cancer diagnosis and treatment.

Nanotech cover also all aspect of using nanomaterials as drug carrier, gene delivery, biomarkers, cosmetics, ... etc.

Nanotechnology for imaging, detection and therapy

Nanotechnology for antibacterial, antifungal and antiviral activity

Solar Cells

Developing photo electrochemical solar cells using naturally available dyes.

Design and fabrication of photovoltaic devices with improved efficiencies, based on quantum dots prepared by colloidal methods.

Enhancing the photon-to-current conversion efficiency by in-cooperating metal nanoparticles in Plasmonic Solar Cells.

Application of Graphene as the new material for transparent electrodes instead of conventional ITO.

Optimization of metallic ink prepared from metal nanoparticles for back electrodes and connections in solar panels.

Water Desalination

Nanotech developed new methodology which combines solar desalination and nanotechnology in its laboratory.

This methodology based on producing low cost nanocomposite to be used for water desalination. These new nanomaterials absorb light so strongly and convert it efficiently into heat energy.