Program

Organizing Committee:
Nazario Martín (UCM and IMDEA-Nanociencia)
Mª Ángeles Herranz (UCM)
Juan Luis Delgado (IMDEA-Nanociencia)

Sponsored by the MINECO-JST action:
“Endofullerenes for Photovoltaic Devices” (PIB2010JP-00196)
## Program

**Thursday September 26th, 2013**

**Morning Session**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30-10:00</td>
<td>Registration</td>
<td></td>
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</tr>
<tr>
<td>10:00-10:10</td>
<td>Presentation (Rodolfo Miranda, Nazario Martín and Takeshi Akasaka)</td>
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<tr>
<td>10:10-10:40</td>
<td>Plenary 1</td>
<td>Takeshi Akasaka</td>
<td>Fullerenes and Endohedral Fullerenes Chemistry</td>
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<tr>
<td></td>
<td>Plenary 1</td>
<td>Takeshi Akasaka</td>
<td>Chair: Rodolfo Miranda and Roberto Otero</td>
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<tr>
<td></td>
<td>Plenary 1</td>
<td>Takeshi Akasaka</td>
<td>New Vistas in Fullerene Endohedralals</td>
</tr>
<tr>
<td>10:40-11:10</td>
<td>Plenary 2</td>
<td>Tomas Torres</td>
<td>Photoactive Phthalocyanine and Sub-phthalocyanine Containing Carbon Nanostructures</td>
</tr>
<tr>
<td>11:10-11:30</td>
<td>Invited 1</td>
<td>Yuta Takano</td>
<td>Unprecedented Chemical, Electronic and Magnetic Properties of a Paramagnetic Endohedral Metallofullerene La@C₈₂</td>
</tr>
<tr>
<td></td>
<td>Coffee Break</td>
<td></td>
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</tr>
<tr>
<td>12:00-12:20</td>
<td>Invited 2</td>
<td>Xing Lu</td>
<td>Fullerenes Encapsulating an Ytterbium Atom: Molecular Structures and Chemical Properties</td>
</tr>
<tr>
<td>12:20-12:30</td>
<td>Oral 1</td>
<td>Silvia Reboredo</td>
<td>Synthesis of Chiral Fullerenes</td>
</tr>
<tr>
<td>12:30-12:50</td>
<td>Invited 3</td>
<td>M. Ángeles Herranz</td>
<td>Modulating the electronic properties of carbon nanoforms</td>
</tr>
</tbody>
</table>

IMDEA Visit, Lunch
### Afternoon Session

#### Fullerenes, Endofullerenes, Surfaces

**Chair: Ester Vázquez**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>16:00-16:30</td>
<td>Plenary 3</td>
<td>Yasujiro Murata</td>
<td>Novel Endohedral Fullerenes: Synthesis and Reactions</td>
</tr>
<tr>
<td>16:30-17:00</td>
<td>Plenary 4</td>
<td>Martín-Gago</td>
<td>From Molecular Nano-Architectures to 2D-Networks by Controlling On-Surface (Cyclo)Dehydrogenation Reactions</td>
</tr>
<tr>
<td>17:00-17:20</td>
<td>Invited 5</td>
<td>Roberto Otero</td>
<td>Self-Assembly of Complex Nanoobjects on Solid Surfaces as a Route to New Carbon-Based Materials</td>
</tr>
<tr>
<td>17:20-17:30</td>
<td>Flash 1*</td>
<td>Antonio Muñoz</td>
<td>New Possibilities for Fullerenes: Multivalent Scaffold for Biology and Material Science</td>
</tr>
<tr>
<td></td>
<td>Flash 2*</td>
<td>María Gallego</td>
<td>Bowl Meets Bowl: Supramolecular Complexation between Hemifullerene and trux-TTF</td>
</tr>
<tr>
<td>17:30-17:40</td>
<td>Flash 3*</td>
<td>Sara Vidal</td>
<td>Selective Methods in Fullerenes Chemistry</td>
</tr>
<tr>
<td></td>
<td>Flash 4*</td>
<td>Sonia Vela</td>
<td>Electron Transfer through Hydrogen Bonding in exTTF and dPPS-C$_{60}$ Systems</td>
</tr>
<tr>
<td>17:40-17:50</td>
<td>Oral 2</td>
<td>Luis Moreira</td>
<td>Unveiling the Nature of Crown Ether-C$_{60}$ Interactions</td>
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</table>

*Coffee break / Poster session*

#### Graphene and analogues

**Chair: Emilio M. Pérez**

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<tr>
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<tbody>
<tr>
<td>18:20-18:40</td>
<td>Invited 6</td>
<td>Ester Vázquez</td>
<td>Few-layer Graphene from Ball-Milling of Graphite with Triazine derivatives: Applications</td>
</tr>
<tr>
<td>18:40-18:50</td>
<td>Oral 3</td>
<td>Enrique Gnecco</td>
<td>Indentation and Shear Response of Graphene on the Nanoscale</td>
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</table>

*Flash Communications do not have questions after the respective presentations. Questions will be addressed in the poster session on Thursday afternoon or Friday morning.*
### Friday September 27th, 2013

**Morning Session**

#### Graphene and analogues
**Chair:** Giovanni Bottari

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<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>10:00-10:30</td>
<td>Plenary 5</td>
<td>Nazario Martin</td>
<td>Chemically Modified Graphene with Electroactive Species</td>
</tr>
<tr>
<td>10:30-11:00</td>
<td>Plenary 6</td>
<td>Amadeo L. Vázquez</td>
<td>Nanostructured Graphene: A 2D Playground</td>
</tr>
<tr>
<td>11:00-11:30</td>
<td>Plenary 7</td>
<td>Gabino Rubio</td>
<td>Electrical and Mechanical Properties of Atomically Thin Layers of MoS$_2$</td>
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Coffee break / Poster session

#### Carbon Nanotubes and Carbon Nanohorns
**Chair:** Mª Ángeles Herranz

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<th>Time</th>
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<tbody>
<tr>
<td>12:00-12:20</td>
<td>Invited 8</td>
<td>Michio Yamada</td>
<td>Solubilization of Single-Walled Carbon Nanotubes by Supramolecular Complexation with CD Sensitive Molecular Tweezers</td>
</tr>
<tr>
<td>12:20-12:40</td>
<td>Invited 9</td>
<td>Yutaka Maeda</td>
<td>Control of Functionalization of Single walled Carbon Nanotubes</td>
</tr>
<tr>
<td>12:40-12:50</td>
<td>Oral 4</td>
<td>Jaime Mateos-Gil</td>
<td>Covalent Modification of Carbon Nanostructures with $\pi$-exTTF units</td>
</tr>
<tr>
<td>12:50-13:00</td>
<td>Oral 5</td>
<td>M. Antonia Herrero</td>
<td>Design of new material based on CNHs for different applications</td>
</tr>
<tr>
<td>13:00-13:10</td>
<td>Oral 6</td>
<td>Atena Naeimi</td>
<td>Multiwall Carbon Nanotubes as Efficient Absorbent For the Removal of Fenvalerate Pesticide From Drinking and Ground Water and as Catalysts For Oxiation of Organic Compound</td>
</tr>
<tr>
<td>13:10-13:30</td>
<td>Invited 10</td>
<td>Emilio M. Pérez</td>
<td>Mechanically interlocked single wall carbon nanotubes</td>
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</tbody>
</table>

Lunch
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<th>Time</th>
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<tbody>
<tr>
<td>15:00-15:30</td>
<td>Plenary</td>
<td>Fernando Langa</td>
<td>Hybrids between different Carbon Nanostructures</td>
</tr>
<tr>
<td>15:30-15:50</td>
<td>Invited</td>
<td>Juan L. Delgado</td>
<td>Carbon-Based Materials for the Preparation of Photovoltaic Devices</td>
</tr>
<tr>
<td>15:50-16:00</td>
<td>Oral 7</td>
<td>María J. Gómez-Escalonilla</td>
<td>Carbon Nanohorn-Oligothienylenevinylene Hybrids</td>
</tr>
<tr>
<td>16:00-16:10</td>
<td>Oral 8</td>
<td>David García Fresnadillo</td>
<td>Determination of Photosensitized Production Quantum Yields, Emission Lifetimes and Bimolecular Quenching Rate Constants of Singlet Oxygen by the Synthetic Precursors of H2O@C60</td>
</tr>
<tr>
<td>16:10-16:20</td>
<td>Oral 9</td>
<td>Aleix Güell</td>
<td>Nanoscale Electrochemistry of Individual Single Walled Nanotubes</td>
</tr>
<tr>
<td>16:20-16:30</td>
<td>Oral 10</td>
<td>Yang Wang</td>
<td>Formation Dynamics of Dumbbell Fullerene Dimers C118, C119 and C120 upon Collisions of Clusters of C60 Molecules with α Particles</td>
</tr>
<tr>
<td>17:00-17:30</td>
<td>Plenary</td>
<td>Dirk M. Guldi</td>
<td>Implementation of Nanocarbons in Solar Energy Conversion Schemes</td>
</tr>
<tr>
<td>18:00-18:20</td>
<td>Invited</td>
<td>Kentaro Tashiro</td>
<td>Rotational Dynamics of Metal Bisporphyrinate Double-Decker Complexes Revisited with C60</td>
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<tr>
<td>18:20-18:30</td>
<td>Oral 11</td>
<td>Ruben Caballero</td>
<td>New Supramolecular Tetrads based on a Supramolecular Photosynthetic antenna</td>
</tr>
<tr>
<td>18:30-19:00</td>
<td>Plenary</td>
<td>Shu Seki</td>
<td>Intra- and Inter-Molecular Local Motion of Charge Carriers Probed by Electromagnetic Waves</td>
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<tr>
<td>19:00-19:15</td>
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<td>Concluding remarks (Nazario Martín y Takeshi Akasaka)</td>
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Poster Session


