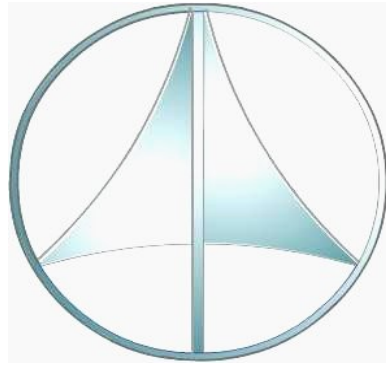


 **ENERGY & SPACE**  
INTERNATIONAL PRESENTATIONS

**2012-2013**



**Energy & Space**

***International  
Presentations***

**2012 - 2013**

# Advanced Materials

3D Layered Paper

Adhesives Gecko-Inspired

Advanced Composites

Advanced Titanium

Air & Smog Cleaning Cement

Algae BioLuminescent Grow

**Alloys Shape Memory**

**Alloys Titanium**

**Aluminum Anodized Laser Etching**

**Aluminum Anodized Removing**

**Aluminum Central Reinforced**

**Anodized Titanium**

**Anodized Titanium Rings**

**Anti-Pollution Cement**

**Armor Ceramics**

**Armored Panels Plastics Waste**

**Atom-Thick Materials**

**Blast-Resistant Steel**

**BioMaterials**

**BioMaterials Implantable**

**BioMimetic Composites Self-Healing**

**BioMimetic Materials**

**BioMimetic Membranes**

**BioMimetic Self-Healing Composites**

**BioPlastics Conductive**

**BioPlastics Heat Conductive**

**Black Metals**

**Black Metals by Lasers**

**BuckyPaper**

**Carbon Magnetic**

**Cement Air & Smog Cleaning**

**Cement Anti-Pollution**

**Central Reinforced Aluminum**

**Ceramic Coatings Protective**

[Ceramics Armor](#)

[Ceramics Diamonds](#)

[Ceramics Flexible](#)

[Ceramics Flexible Nano](#)

[Ceramics NanoTubes Reinforced](#)

[Ceramics Plastic](#)

[Ceramics Reinforced NanoTubes](#)

[Ceramics Tougher](#)

[Ceramics Ultra High Temperature](#)

Cerium  
Rare Earth Materials

Changeable Conductivity Plastic

Coatings Ceramic Protective

Coatings Super-Hard

Composites Advanced

Composites BioMimetic Self-Healing

Composites Nano



**Composites Nano Polymer**

**Composites Nano Space Applications**

**Composites Self-Healing**

**Composites Self-Healing BioMimetic**

**Concrete NanoEngineered**

**Concrete Self-Healing**

**Concrete Smart**

**Conductive Glues**

**Conductive Plastics Bio**

**Conductive Rubber**

**Crystalline Materials**

**Crystals High-Quality**

**Crystals Organic**

**Diamond Films**

**Diamonds Ceramics**

**Diamonds Nano**

**Dust Smart**

**Dysprosium**  
**Rare Earth Materials**

**Erbium**  
**Rare Earth Materials**

**Europium**  
**Rare Earth Materials**

**Fibers Smart**

**Films Diamond**

**Fire-Safe Plastics**

**Flexible Ceramics**

**Flexible Ceramics Nano**

**Friction Stir Welding**

**Gadolinium**

**Rare Earth Materials**

**Gecko Hairs Synthetic**

**Gecko-Inspired Adhesives**

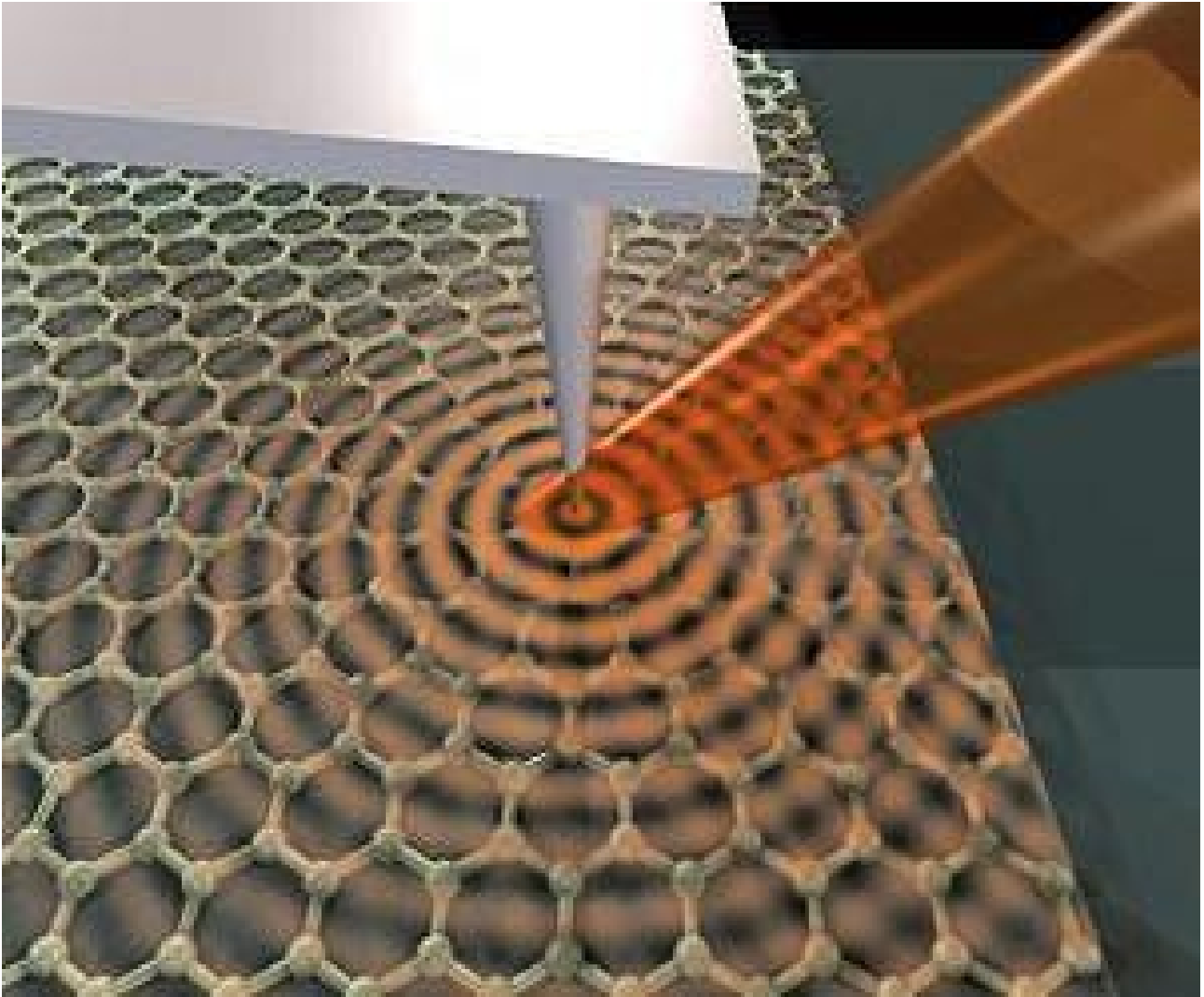
Glass Steel-like

Glue NanoTubes Carbon

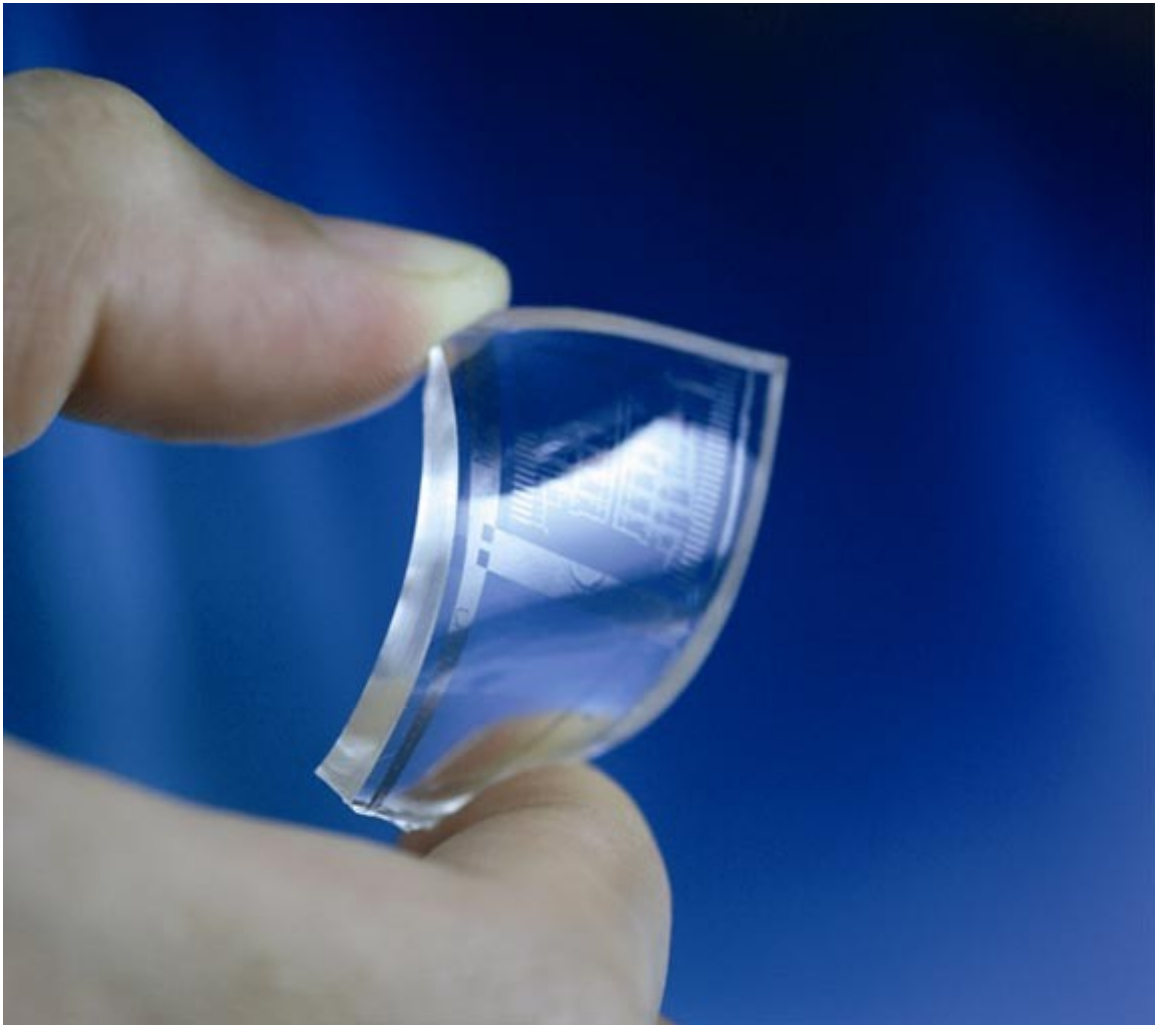
Glues Conductive

Graphene

## Graphene Tunable Plasmonic Medium



## Graphene Electrodes Stretchable



## Graphene Polymers

[Graphene Quantum Dots](#)

[Heat Conductive Plastics](#)

[Helium Super Fluid](#)

[High-Quality Crystals](#)

[Holmium](#)

[Rare Earth Materials](#)

[Inflatable Rigidizable Structures](#)

[Implantable BioMaterials](#)



**Invisible MetaMaterials**

**Lanthanum**  
**Rare Earth Materials**

**Lasers Black Metals**

**Light Controlled Plastic Magnets**

**Liquid Glass**

**Liquid-like Materials**

**Liquid Metal**

**Luminiscent Powders**

**Lutetium**  
**Rare Earth Materials**

**Magnetic Carbon**

**Magnetic Polymers**

**Magnets Plastic**

**Magnets Plastic Light Controlled**

**Materials Atom-Thick**

**Materials Bio**

**Materials Bio Implantable**

**Materials BioMimetic**

**Materials Morphing**

**Materials Morphing Robust**

**Materials Self-Healing**

**Membranes BioMimetic**

**MEMS**

**Metal Liquid**

**Metal Rubber**

**Metals Black**

**Metals Velcro Touch**

**Metal Blacks by Lasers**

[MetaMaterials](#)

[MetaMaterials Hyperbolic](#)

[MetaMaterials Hyperbolic Optics](#)

[MetaMaterials Invisible](#)

[Morphing Materials](#)

[Morphing Robust Materials](#)

[Nano Ceramics Flexible](#)

[NanoComposites](#)

[NanoComposites Polymer](#)

[NanoComposites Space Applications](#)

[NanoComposites Stealth MicroWave Absorbing](#)

[Nano Diamonds](#)

[NanoEngineered Concrete](#)

[Nano Flexible Ceramics](#)

[NanoTubes Carbon Glue](#)

[NanoTubes Ceramics Reinforce](#)

[NanoTubes Reinforced Ceramics](#)

NanoTubes Ropes

NanoTubes Textile

NanoTubes Titanium SuperSensitive Hydrogen  
Sensors

Nano Velcro

Neodymium  
Rare Earth Materials

Optical Fibers Spider Silk

Organic Crystals

Organic Polymers

Osmium

Osmium stiffer than Diamond

Paints Pressure Sensitive

Paper Layered 3D

PiezoElectric

Plastic Ceramics



Plastic Magnets

Plastic Magnets Light Controlled

Plastics Bio Conductive

Plastics Changeable Conductivity

Plastics Fire-Safe

Plastics Self-Healing

Plastics Thin Transparent Steel-like

**Plastics Waste Armored Panels**

**Polymer NanoComposites**

**Polymers Graphene**

**Polymers Magnetic**

**Polymers Organic**

**Polymers Self-Healing**

**Powders Luminiscent**

Praseodymium  
Rare Earth Materials

Pressure Sensitive Paints

Protective Ceramic Coatings

Rare Earth Materials

Reinforced Ceramics NanoTubes

Reinforced NanoTubes Ceramics

## Rigidizable Inflatable Structures

Ropes NanoTubes

Rubber Conductive

Rubber Self-Healing

Samarium

Rare Earth Materials

Scandium

Rare Earth Materials

Self-Healing Concrete

**Self-Healing Materials**

**Self-Healing Plastics**

**Self-Healing Polymers**

**Self-Healing Rubber**

**Sensitive Pressure Paints**

**Shape Memory Alloys**

**Silk Spider**

**Silk Spidery**

**Silk Spidery Synthetic**

**Smart Concrete**

**Smart Dust**

**Smart Fibers**

**Smart Surfaces**

Smart Textures

Space Applications NanoComposites

Spider Silk

Spider Silk Optical Fibers

Spidery Silk

Spidery Silk Synthetic

Stealth MicroWave Absorbing NanoComposites

Steel Blast-Resistant

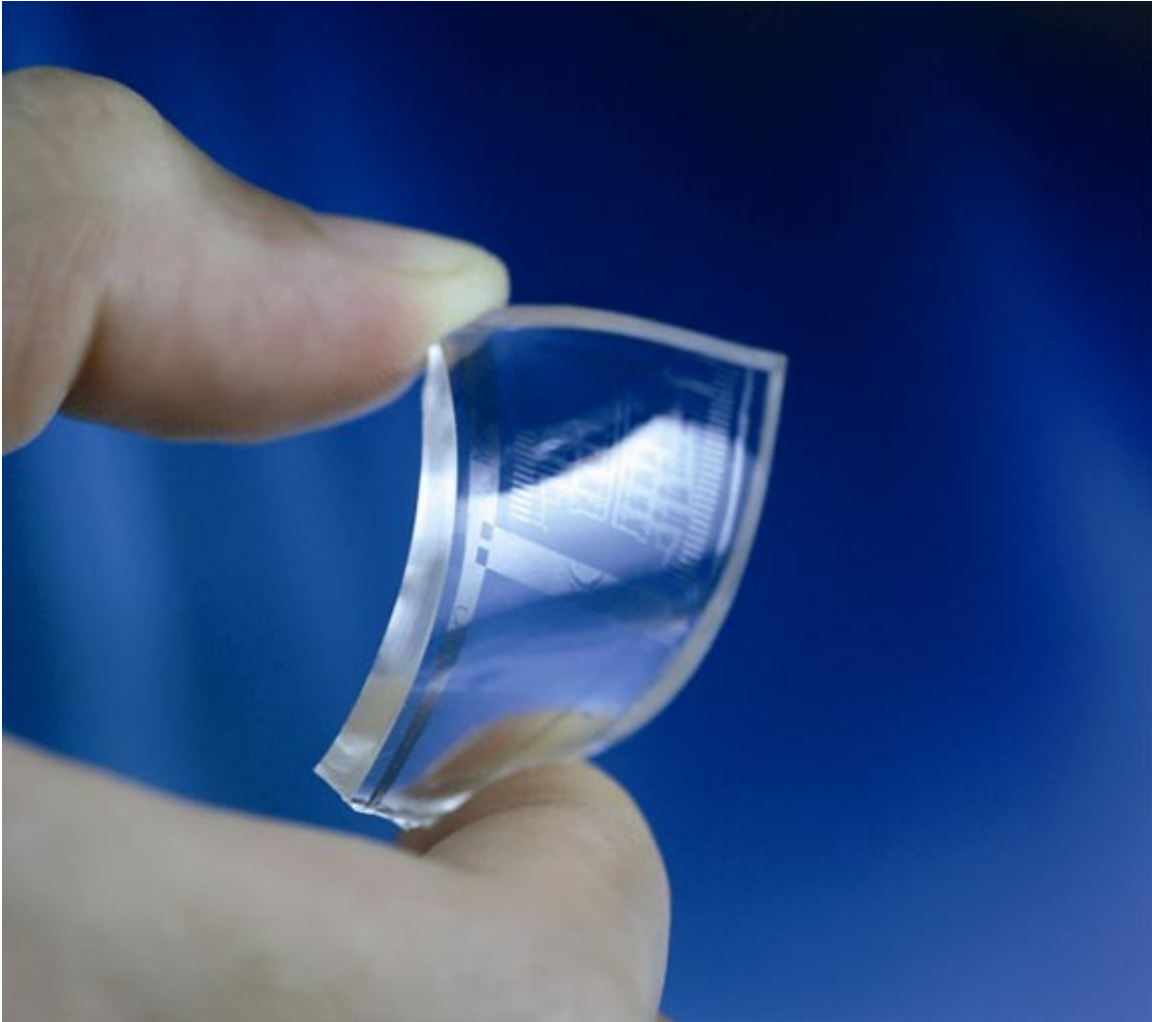
**Steel ElectroMagnetic Pulse Cutting**

**Steel-like Glass**

**Steel-like Plastics Thin Transparent**



## Stretchable Graphene Electrodes



## Super Fluid Helium

## Super-Hard Coatings

**Surfaces Smart**

**Synthetic Gecko Hairs**

**Terbium**

**Rare Earth Materials**

**Textile NanoTubes**

**Textures Smart**

**Thulium**

**Rare Earth Materials**

**Titanium Advanced**

**Titanium Alloys**

**Titanium Anodized**

**Titanium NanoTubes SuperSensitive Hydrogen  
Sensors**

**Titanium Rings Anodized**

**Tougher Ceramics**

Ultra High Temperature Ceramics

Velcro Touch Metals

Velcro Nano

Ytterbium  
Rare Earth Materials

Yttrium  
Rare Earth Materials