



Material Advantage chapter at Florida International University (MA-FIU) was established in 2003. MA-FIU has set its goal as ***“Preparing tomorrow’s Material Science and Engineering professionals - TODAY”***. To reach our goal, we spread the knowledge of Materials Science and Engineering among the younger generation and encourage them to pursue their career in this field ***“Teaching is an act of faith in the promise of the future”***. MA-FIU focuses on K-12 students, which is the future workforce. It is important that the younger generation be encouraged for a profession as a Materials Scientist/Engineers at an early stage. Our activities are fun-filled so that students can enjoy and get easily participate in the activities. In our activities we try to emphasize the importance of materials science in day-to-day life and its role in the development of human civilization. Our other activities include lab tours, presentations, lectures and hands-on-training.

MA-FIU is recipient of many prestigious awards such as: *“Most Creative Recruitment Strategies Award”*, *Chapter of Excellence (4 times)*, *World Materials Day Award (4 times)*, etc. Not to mention one of our members, Mr. Anup K. Keshri, was acknowledged by Council of Student Organizations (CSO), FIU as ‘Outstanding Member’, while our advisor, Dr. Arvind Agarwal, was selected as the ‘Outstanding Advisor’, among 210 student organizations of CSO for the year of 2009-10. MA-FIU hopes to live up to its reputation by continuing its efforts to spread the knowledge about materials with diligence. Based on our rich experience, strong determination and dynamic team, we firmly believe in our capability of effectively carrying out commendable outreach activities, in future years, too.

***“Cause is worthy and path is clear. Planned frame of action is set for achieving the objective, and world surely gives the way to those who know where they are walking towards”***



Showcase of some of MA-FIU “World Materials Day” awards.

## ACTIVITIES, Spring 2010

**Engineering Expo** (Feb. 19, 2010) – An exciting and dynamic educational experience that engages and exposes local high schools to the wonders of science and engineering. Hundreds of high school students from Miami and its neighborhood attended this Expo to explore the engineering facilities in FIU. Parallely, MA-FIU organized lab tours to Advanced Materials Engineering Research Institute, Plasma Forming Lab, Materials Testing Lab and Nanotechnology related workshops.



**Invited Lecture Series** (January – April 2010): In order to spread the awareness among the FIU community, a number of guest lectures were organized from distinguished speakers from different universities.

- **Prof. Gunnar Westin** (January 25, 2010) - Materials Chemistry, Uppsala University, Sweden on Solutions for Advanced Materials – from Molecules to applications.
- **Prof. Sylvia Daunert** (February 5, 2010) - Department of Chemistry, University of Kentucky, on Genetically Diverse Biosensors and Bionano analytical Methods.
- **Prof. Chitoshi Masuda** (February 24, 2010) - Materials Science and Technology, Waseda University, Japan on Advanced Carbon Nanotube Composite Materials.
- **Prof. Tim Anderson** (March 12, 2010) - Department of Chemical Engineering, University of Florida, on Light-in and Light-out: Solid-state Lighting and thin Film Photovoltaics.
- **Prof. P.M. Ajayan** (April 9, 2010) - Mechanical Engineering and Materials Science Department, Rice University, on Engineering at the Nanoscale: Future and challenges.

**Poster Presentation Competition** (March 4, 2010): A technical poster presentation competition was organized, open to all FIU, to showcase their Materials Science related research work.

**Art inside Materials** (March 26, 2010): This was a contest for the artistic representation of material's structures (Macro/Micro/Nano-structures).

**End-of-the-year Award Ceremony** (April 16, 2010): All the members from our chapter attended this meeting, along with members with some other organizations also. Two most

active members from MA-FIU were facilitated by the faculty advisor. All the winners of our competitions received certificates.

**Regular visits to Miami Coral Park Senior High School:** To discuss the latest trends in Nanotechnology and demonstrate hands-on experiments and lab tours.

### **PROPOSED ACTIVITIES, FALL 2010**

- New Student Orientation (September)
- International Food Festival (October)
- Slogan Contest (October)
- Materials Quest (November)
- Technical Oral Presentation Competition (November)
- End-of-Fall Award Ceremony (December)

Know more about us, visit: <http://students.eng.fiu.edu/~ASM-TMS/index.htm>  
Follow us at Facebook, join: [Material Advantage@FIU](https://www.facebook.com/Material-Advantage@FIU)