
Lehigh Valley Section

Leopoldo Mayoral, Chair

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Section Activities (Program 2008-2009)

- **Intelligent Power Grid, Steven Kunzman from ABB, September 24, 2008, Packard Hall 416, 4:10pm**
- **October 2008: John Spletzer, Autonomous Robotic Vehicle, November 2008 Net-centric Early Warning System (NEWS), Marmelstein,**
- **December 2008: Senior Member application night**
- **January 2009: Johns Hopkins Applied Physics Laboratory presentation "New Horizons"**
- **February 2009: Johns Hopkins APL presentation, Space Programs**
- **March 2009: Cube Satellites (target EE College Juniors)**
- **April 2009: Dinner Dance/Morton contest**

Student Activities

- **Gordon Morton Student Paper Contest**
 - Affiliated with all Lehigh Valley Universities
 - Less Participation recently
- **Lafayette University**
 - Student Interest for Collaboration
 - Actively working this + JHU APL collaboration

Guiding Principles

- **Keep our section alive**
 - **ATT Downsizing**
 - **Agere/LSI Restructuring**
 - **Technology Loss**
 - **Engineer Migration**

Society Activities

- **Good News**
 - Still Active But not by much
 - Circuits & Systems ... Doug Frey
 - Computer Society ... Rebuild
- **Basic Thrust**
 - Keep our Electronic Device Society working
 - Society Leads Identified

Problems

- **IEEE Corporate Seems Distant and Detached**
- **Inability to get young engineers excited about IEEE**
 - IEEE Value to them (?)
 - Cost is excessive
 - Inability of young engineers to read technical papers
 - Esoteric, Notation not standardized, lack of applicability
 - Opportunity to publish is limited to the Academic Community --- Perception!

Suggestions

- Lower the cost of IEEE Membership and Society Membership
- Establish a Society (written or online venue) for engaging young engineers to publish (and Read papers)... changing society
 - BS Degreed Engineers claim papers are too technical
 - Take advantage of the “Power-point Engineer” strong suit
 - Talk to the “Hunt-and-Peck” Engineer who have a strong reliance on software tools
- Interoperate with INCOSE, PE Community, AIAA and other professional Societies
 - MS Systems Engineering ... Is this really a degree?

Conclusion

- **A BS Degree is not enough today!**
- **How can IEEE help prepare young engineers innovate for the applications that MEMS and Nanotechnology suggest**
- **IEEE has a role in Community Colleges**