

## 2010 ASC Board Elections – Large Scale



**Giorgio F. Ambrosio**

- Affiliation** Fermi National Accelerator Laboratory
- Position** Applied Scientist II
- Previous Positions** Technology Researcher at INFN-LASA. Assistant Professor at University of Milan.
- Education** PhD equiv. by INFN and University of Milan (Italy)
- Research Interests/  
Areas of Expertise:** From superconductor characterization to design, fabrication and test of HEP accelerator and detector magnets
- Publications** More than 100 peer reviewed papers
- Approximate Number of Years in Applied Superconductivity:** 20 years
- Previous ASC Service** Session chairman at ASC08 and ASC06
- Service to Related Conferences** MT20 Program Committee member
- Other** Member of the US National Conductor Development Group  
Member of the LARP Magnet Steering Committee  
Director of the U.S. branch of Euresis (an association for the promotion of scientific endeavors)  
Member of the Crossroads Advisory board, and of the Chicago Crossroads Branch

His interests span from measuring and developing superconducting materials to large scale applications of superconductors such as HEP accelerator and detector magnets. In his early career he characterized LT superconductors, contributed to the design of a Nb<sub>3</sub>Sn quadrupole for LHC IR upgrade, and performed studies and optimizations on several parts of the ATLAS Barrel Toroid. At Fermilab he contributed to the design, fabrication, and testing of several Nb<sub>3</sub>Sn magnets; he led the development of the React-and-Wind technology through strand, cable, and magnet tests; and designed, fabricated and assembled sample holders for Nb<sub>3</sub>Sn and Nb<sub>3</sub>Al cables tested at FRESKA (CERN cable test facility).

From 2004 to 2007 he led the Supporting R&D for LARP (LHC Accelerator Research Program) which accomplished several successful tests of Short Quadrupoles (SQ series) and Long Racetrack magnets (LR series). Since 2007 he has been leading the Long Quadrupole R&D (LARP) that recently demonstrated Nb<sub>3</sub>Sn scale-up without any loss in performance. At the beginning of 2010, he began leading the design of a NbTi magnet system for muon transportation (Mu2e Transport Solenoid).

**Statement** I'm planning to put my skills at the service of the Applied Superconductivity community, aiming at a stronger community, more and more useful and enjoyable conferences, and increasing outreach activities.