

November 2004

Rock River Valley Section

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The Institute of Electrical and Electronic Engineers, Inc.

RRV Section and IAS Chapter Meeting

# The New Generation of Superconductor Electric Power Equipment

**When** Wednesday, November 10, 2004

**Where** Northern Illinois University, DeKalb, IL; Engineering Building, Room 241. Please call Don Zinger at 753-0540 if you need directions from outside DeKalb.

**Please see map on this page.**

Parking will be allowed in the engineering parking lot behind the engineering building after 5:00 PM at no charge.

### Agenda

- 5:30 PM Networking
- 6:00 PM Dinner
- 7:00 PM Presentation

**Program** Rising energy demands, driven by population and economic growth, face an increasing clash with resource, land use and other environmental limits. Amidst the fierce debate over general energy policy priorities, there is broad consensus on the urgent need to modernize and strengthen the electric power grid. High Temperature Superconductor (HTS) wire is one of the keys to achieving these goals. Superconductivity is the amazing property of certain materials to conduct electricity with no resistive loss and high current density, enabling a new generation of electrical power equipment that is efficient, compact and very low in environmental impact. This vision has been enabled by the successful development and commercialization of robust, long-length, high performance HTS wires. This presentation will assess the potential impact on the major grid challenges our society faces today.

**Speaker Dr. Alex P. Malozemoff** is Executive Vice President and Chief Technical Officer of American Superconductor Corporation. He is responsible for R&D strategy, advanced conductor development and the intellectual property portfolio. Before joining AMSC in 1991, Dr. Malozemoff served for 19 years as staff scientist, manager and senior manager in magnetism, superconductivity and condensed matter physics at IBM Research, Yorktown Heights NY. Beginning in 1987, he acted as IBM Research Division Coordinator for

High Temperature Superconductivity.

### Meal/Reservations

There will be a buffet of Chinese food from Yen Ching's of DeKalb. Please reserve your space and/or dinner selection by calling **Tricia at 815-753-9974** or sending an email (**fisher@ceet.niu.edu**) by **Monday, Nov 8, at noon**. Please include your name, phone number, email address, IEEE member number. The cost of the dinner is **\$5 for members, \$10 for non-members, \$2 for student members, and \$5 for student non-members.**

