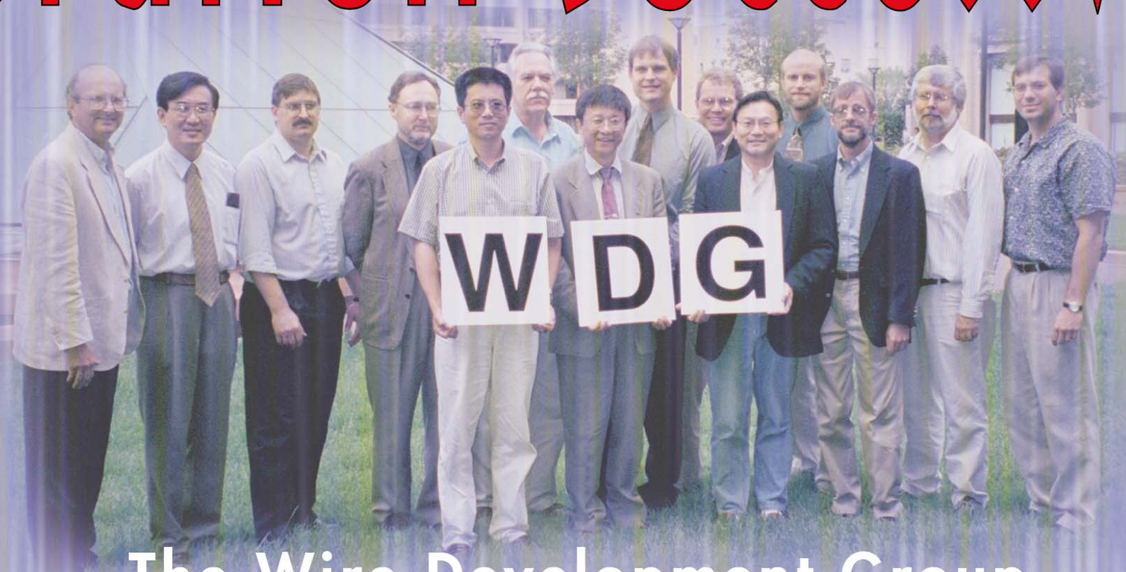
University of Wisconsin Argonne Los Alamos Oak Ridge American Superconductor

2000 CCR Award Winner

Collaboration Success!

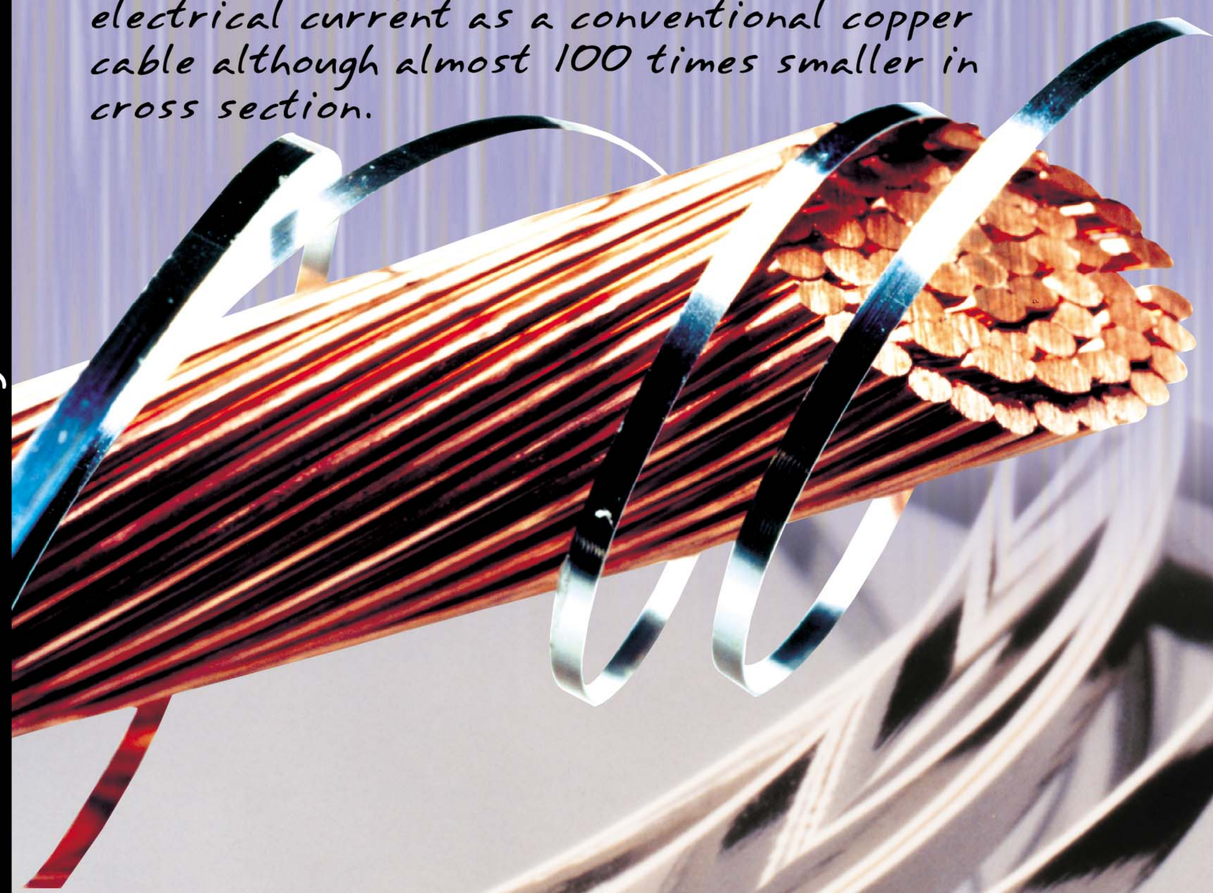


The Wire Development Group

Receiving the award from the Council for Chemical Research (CCR) were research teams from American Superconductor; Argonne, Los Alamos, and Oak Ridge National Laboratories; and the University of Wisconsin at Madison.

The Group's Research Led To Commercialization Of High-Temperature Superconducting Wire

American Superconductor's tests show that three strands of its multi-filamentary superconducting wire can transmit as much electrical current as a conventional copper cable although almost 100 times smaller in cross section.



Superconducting-wire coils designed and fabricated at American Superconductor's Westborough, MA, facility were used in this 1,000 hp motor manufactured by Reliance Electric.

The Group's materials research led to commercialization of a robust, flexible superconducting wire that is suitable for numerous electric power applications, such as the 1,000 hp motor (upper right) being assembled by technicians at Reliance Electric.

Product photos courtesy of American Superconductor