

FOR IMMEDIATE RELEASE

Development of Ultraconductive Copper Expands to China *ICA Funds Research at Two Universities*

NEW YORK, NY/U.S. (08 September 2014)—The International Copper Association (ICA) announces the signing of funding contracts with Shanghai Jiao Tong University and Dalian University of Technology to develop ultraconductive copper technology in China. To date, multi-year programs have only been under development in the U.S. and Europe. The creation of these cross-border relationships and development programs is part of ICA's mission to grow significant new markets for copper worldwide.

The programs in China will extend ultraconductive copper's footprint into copper's largest geographical market.

Wires made from ultraconductive copper offer the possibility of reducing electrical losses by 50 percent in applications such as industrial motors and the electricity grid. These large increases in efficiencies could save billions of dollars each year by significantly reducing the heat currently lost to the environment, translating into fuel savings in the regions implementing the technology. Ultraconductive copper also presents the opportunity to reduce the size of electrical components containing wire, from motors and transformers to automotive wiring harnesses and circuit-board tracks, by 50 percent.

Ultraconductive copper is a composite of less than 1 percent of carbon nanotubes dispersed in more than 99 percent pure copper. Although at an early stage of development, this material has shown electrical conductivities at room temperature over millimeter distances of more than double that of pure copper.

Dr. Zhang Di and Dr. Ding Bang will lead the work at Shanghai Jiao Tong University's State Key Laboratory for Metal Matrix Composites. Dr. Jieshan Qiu and Dr. Zhiyu Wang will lead the work at Dalian University of Technology's State Key Lab for Energy Materials and Chemical Engineering.

About The International Copper Association

The International Copper Association (ICA) increases awareness and use of copper by communicating the unique attributes that make this sustainable element an essential contributor to the formation of life, to advances in science and technology, and to a higher standard of living throughout the world. The ICA's 43 members represent a majority of the world's refined copper output and are among the largest copper producers, fabricators, and wire and cable companies.

About Copper Alliance™

The Copper Alliance™ is a network of regional copper centers and their industry-leading members, led by ICA. The Copper Alliance and ICA are responsible for guiding policy and strategy and for funding international initiatives and promotional activities. Headquartered in New York, the organization has offices in four primary regions: Asia, Europe and Africa, Latin America and North America. Copper Alliance programs and initiatives are executed in more than 60 countries through its regional offices and 27 copper promotion centers.



ICA and university professor shake hands after signing ceremony

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