

Research Report

Engineers w/o Borders

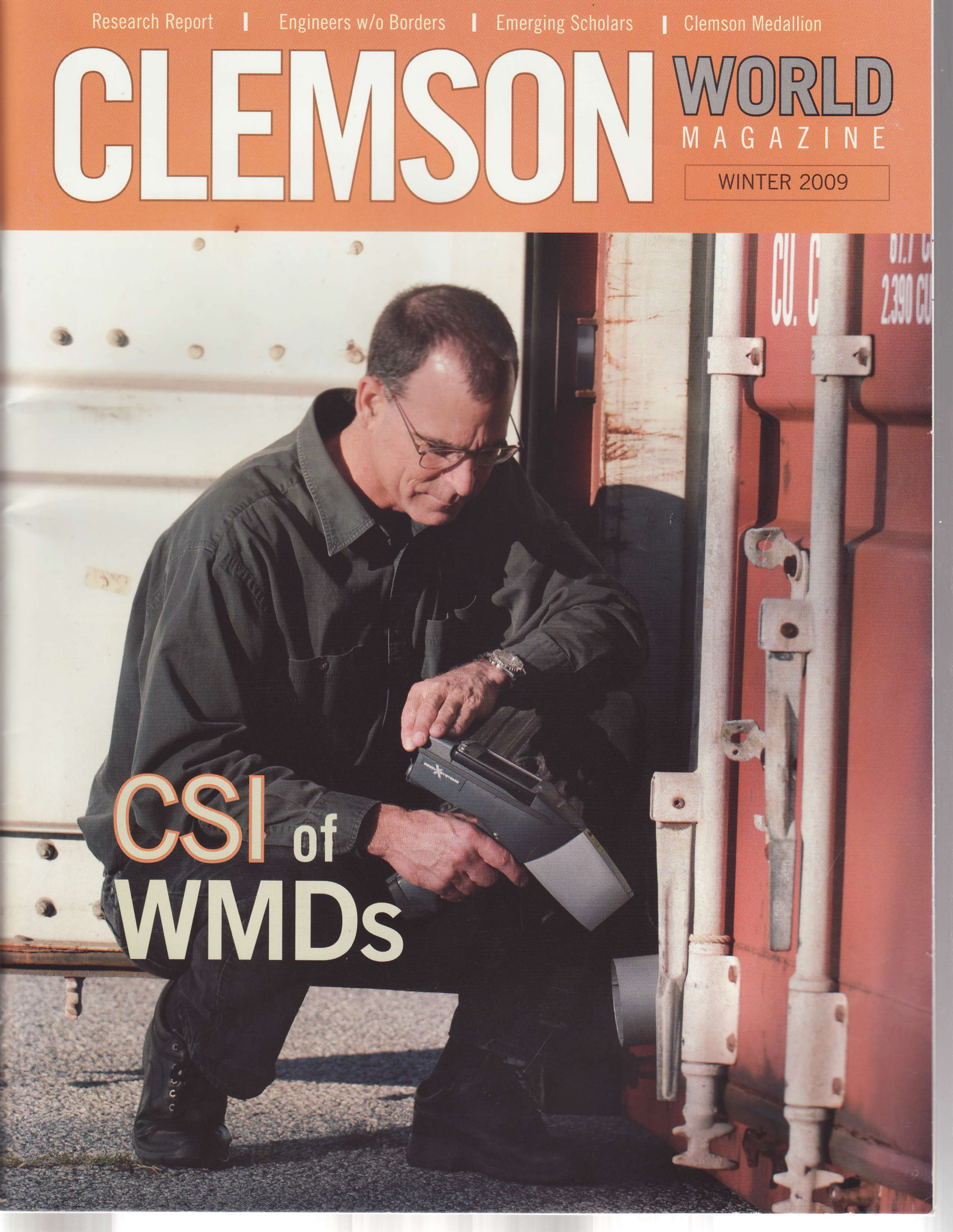
Emerging Scholars

Clemson Medallion

CLEMSON WORLD

M A G A Z I N E

WINTER 2009

A man with glasses and a dark shirt is crouching next to a red shipping container. He is holding a black device, possibly a camera or a small electronic device, and looking at it intently. The background shows the side of a white shipping container and the red one he is next to. The text "CSI of WMDs" is overlaid on the image.

CSI of
WMDs

Automotive and Transportation Technology

With the Clemson University International Center for Automotive Research (CU-ICAR) as its anchor, Clemson's emphasis on Automotive and Transportation Technology is an engine for innovation, from advanced manufacturing processes to transportation planning and vehicle safety.

CU-ICAR's vision is to be the premier automotive and motorsports research and educational facility in the world. The CU-ICAR campus in Greenville is a 250-plus-acre advanced technology research campus where partners such as BMW, Mazda, Michelin, Timken and Sun Microsystems are joining with Clemson to focus on automotive research and other transportation issues. The campus is home to the Carroll A. Campbell Jr. Graduate Engineering Center, housing unique master's and doctoral degree programs in automotive engineering, and state-of-the-art, full-scale research facilities.

Research initiatives range from vehicle structures and materials to robotics, batteries and fuel cells, ergonomics and traffic planning.

Clemson's Automotive Safety Research Institute focuses on education and research programs aimed at improving the safety awareness of citizens of all ages, from kindergarten students to adult drivers. A partnership with the Richard Petty Driving Experience is designed to improve the driving skills of young drivers, and

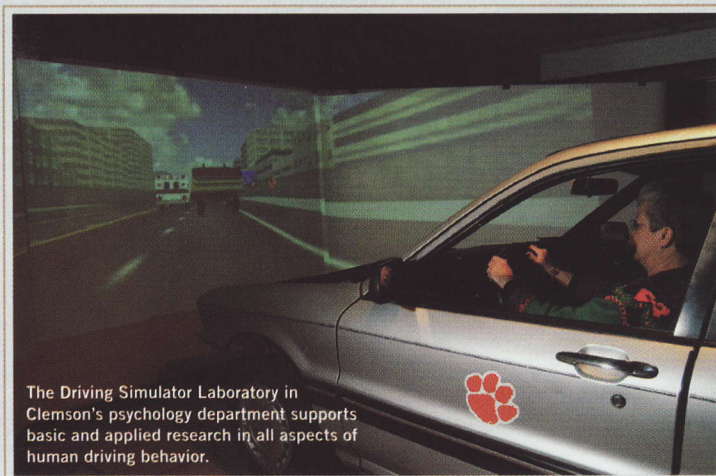
e-Cruisers is a Web-based education program for middle school students to educate them about safe driving habits before they ever take the wheel.



BMW Manufacturing Chair and Mechanical Engineering Professor Tom Kurfess in the Campbell Center's state-of-the-art research facilities.

Through a Health Sciences South Carolina collaborative program called SeniorSmart™, researchers in Clemson's psychology and public health departments are working with the University of South Carolina and Greenville Hospital System to help senior-age drivers maintain their mobility and drive safely.

These and other programs build on Clemson's strengths in mechanical engineering and electrical and computer engineering at both the graduate and undergraduate levels, yet reach beyond to find new connections and new areas of problem-solving collaboration.



The Driving Simulator Laboratory in Clemson's psychology department supports basic and applied research in all aspects of human driving behavior.

Clemson Research 3

his idea for firing a cannon when Clemson scores a touchdown.

After earning a B.S. in arts and sciences, he served two years in the army at Fort Knox, Ky., the last 16 months as commander of the honor guard platoon. Next, he began a nine-year stint

Lucky for Clemson, he set up his wagon never really as a special ambassador for Clemson athletics — he's still passing out the wares. ☺