

SPOTLIGHT

Faculty Research in the News

Georgia Tech researchers' work is covered in the news media.



PHOTO: CLAUDE FERRER

The *Associated Press* covered the work of Georgia Tech Research Institute engineers who evaluate the usability of products for people with disabilities and recommend design improvements. The work is led by Senior Research Scientist **Brad Fain**. The AP story has appeared in more than 120 news outlets across the nation, including ABC News.com, CNN.com, CBS News.com, MSNBC.com, Wired News and the print or online versions of *Forbes*, the *Los Angeles Times*, *Miami Herald*, *Newsday*, *San Francisco Chronicle*, *San Jose Mercury News*, *Washington Post* and *USA Today*. (See the article at gtresearchnews.gatech.edu/newsrelease/access.htm)



The *Washington Times* published a United Press International story about the hybrid wired-wireless network being developed by **Gee-Kung Chang**, a Georgia Research Alliance Eminent Scholar who has appointments in the School of Electrical and Computer Engineering and the Georgia Centers for Advanced Telecommunications Technology. Other reports on this work appeared on *California Computer News.com*, *TechNews.com*, and *ZDNet*. (Read the article on this work on **page 39** in this issue.)

Chemical & Engineering News, *New Scientist*, *The Economist* and *Computerworld* reported on research done by Professor **Walt de Heer**, Associate Professor **Phil First**, research scientist **Claire Berger** and others in the School of Physics on a new class of circuitry made from ultra-thin layers of graphite known as graphene. More than 60 news outlets have now covered the work. They also include the *Atlanta Journal Constitution*, *Arkansas Democrat-Gazette*, *Birmingham News*, *EE Times*, *Machine Design*, *Red Herring*, *R&D Magazine* and *ElectronicsWeekly.com*, a British Web site. (Read the article on this work on **page 12** in this issue.)

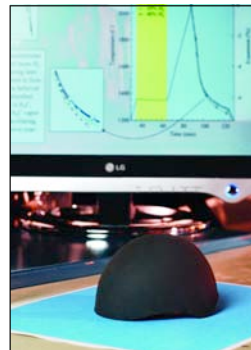


CNET News, a technology news Web site, published an article on bioremediation research that could help control contamination from the radioactive element uranium. The research is led by Associate Professor of Biology **Patricia Sobecky** and Assistant Professor **Martial Taillefert** in the School of Earth and Atmospheric Sciences. The *Boston Globe* Web site *Boston.com* also published the *CNET News* article. (Read the article on this work on **page 20** in this issue.)



Computerworld and *CNET News*, a technology news Web site covered collaborative work between Georgia Tech and Sandia National Laboratories on nanoimprint lithography, an alternative to conventional lithography for patterning integrated circuits and other small-scale structures into polymers. Assistant Professor **Bill King** in the School of Mechanical Engineering led the project. Other outlets covering the work

included *ElectronicsWeekly.com*, *New Electronics*, *Photonics.com* and *Small Times.com*. (Read the article on this work on **page 41** in this issue.)



Design News covered Georgia Tech work on an improved process for manufacturing complex 3D shapes from boron carbide. The work could lead to better body armor for U.S. troops, as well as to better nozzles and other industrial products. The research is being led by Professor **Robert Speyer** in the School of Materials Science and Engineering. (See the article at gtresearchnews.gatech.edu/newsrelease/boron-carbide.htm)



EE Times, *New Scientist*, *TechnologyReview*, *CNET News* and *Mechanical Engineering* magazine published articles on Georgia Tech's development of a new technique for powering nanometer-scale devices without the need for bulky energy sources such as batteries. The research was led by Regents Professor **Z.L. Wang** in the School of Materials Science and Engineering. (Read the article on this work on **page 38** in this issue.)

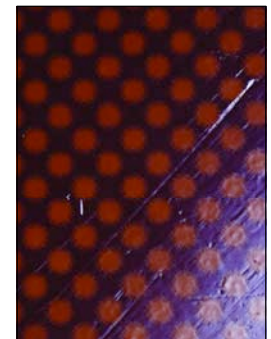


AATCC Review, *Environmental Design & Construction*, *Buildings*, *Interiors & Sources* and *All Headline News*, a supplier of content to Web sites, published an article about the Georgia Tech Research Institute's new environmental test chamber. Researchers led

by Principal Research Scientist **Charlene Bayer** use the facility to study indoor air pollutants released from furnishings, paints and building materials. (Read the article at gtresearchnews.gatech.edu/newsrelease/envir-chamber.htm)



Advanced Materials & Processes and Material Handling Management covered the 2005 Georgia Manufacturing Survey. The survey, led by Professor **Phil Shapira** in the School of Public Policy and Principal Research Associate **Jan Youtie** in the Enterprise Innovation Institute, underscored the importance of innovation to the competitiveness of manufacturing companies. (Read the article on this work gtresearchnews.gatech.edu/newsrelease/gms.htm)



Antenna Systems, *RF Design* and *Network World* covered GTRI research on an ultra-wideband phased-array antenna that could replace as many as five conventional antennas. Both military and commercial applications are envisioned for the "fragmented aperture" device developed by Senior Research Engineer **Paul Friederich**, Principal Research Engineer **Jim Maloney** and others in the Georgia Tech Research Institute's Signature Technology Lab. (Read the article at gtresearchnews.gatech.edu/newsrelease/wideband.htm)