Faculty Research in the News

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

PHOTO BY GARY MEEK

Francois Guillot

A segment of medical news headlines that is part of Dr. Sanjay Gupta's weekly "House Calls" program on CNN featured the "Vein Finder," a Doppler ultrasound device being developed by researchers in the Georgia Tech Research Institute and the School of Mechanical Engineering. **Michael Gray, Peter Rogers, Jim Larsen** and **Francois Guillot** are developing the device for Fairburn-based Reynolds Medical. *The Economist*, a British magazine, *The Times of London* newspaper, *The Tampa Tribune* and dozens of medical news Web sites also covered the vein finder. See the *Research Horizons* article @ **gtresearchnews.gatech.edu/reshor/rh-f05/veins.html**

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Scientific American, *New Scientist* and *Electronic Engineering Times* magazines mentioned Georgia Tech work on storing and retrieving single photons from clusters of atoms — a key requirement for future quantum memory applications. **Alex Kuzmich** and colleagues in the School of Physics reported the work in the journal *Nature*. Other news outlets covering the story included United Press International, *Ottawa Citizen, Laser Focus World, Optics Web* and *Photonics Spectra.* See the *Research Horizons* article on page 12 of this issue.

Fortune magazine devoted a full page to describing the Ultra-AP concept vehicle developed in the Georgia Tech Research Institute to evaluate new technologies that may be applied to future military vehicles. CNN.com's "Money" section picked up the Fortune article, which quoted researcher **Gary Caille**. Military publications such as *Leatherneck* also reported on the vehicle, which features a "blast bucket" designed to protect the crew. See the *Research Horizons* article @ **gtresearchnews.gatech.edu/reshor/rh-f05/ultra.html**

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The *San Francisco Chronicle* and *San Diego Tribune* published an article by the Scripps Howard NewsService that mentioned Georgia Tech's "Digital Family Portrait" among a series of technology developments designed to help older Americans live independently for longer. The project is led by **Beth Mynatt** in the Graphics, Visualization and Usability Center in the College of Computing. Other outlets reporting the work included the *Dayton Daily News* and the *Valdosta Daily Times*. See the *Research Horizons* article @ **gtresearchnews.gatech.edu/reshor/rh-ss02/age-side.html**

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The *Newark Star-Ledger* and *Red Herring* magazine covered Georgia Tech research into novel pharmaceutical compounds found in seaweed samples taken from the ocean surrounding Fiji. **Julia Kubanek**, a researcher with appointments in the School of Biology and the School of Chemistry and Biochemistry, was quoted in the articles. See the Research News article @ **gtresearchnews.gatech.edu/newsrelease/fiji-development.htm**

Research & Development and *Electronic Design News* reported on Georgia Tech collaboration with the University of California Santa Barbara on an optical modulator that operates at terahertz speeds. **David Citrin** in the School of Electrical and Computer Engineering was quoted. See the *Research Horizons* article on his research on page 38.

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IndustryWeek magazine reported on the 2005 Georgia Manufacturing Survey done by researchers in the Office of Economic Development and Technology Ventures and the School of Public Policy. The findings, developed by **Jan Youtie, Phil Shapira** and others, also were discussed on a number of blog sites. Other media outlets reporting on the survey included MSNBC's online news site, the *Atlanta Business Chronicle, Denver Business Journal, Material Handling Management* and the *New Mexico Business Journal*. See the *Research Horizons* article on page 33 in this issue.

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Research & Development, Chemical Engineering Progress and *Chemical Week* magazines reported on the "switchable solvents" developed by researchers from Georgia Tech and Queen's University in Canada. **Charles Liotta** and **Charles Eckert** are the Georgia Tech researchers involved.See the Research News article @ **gtresearchnews.gatech.edu/newsrelease/switchable.htm**

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The Associated Press reported on a grant received by the Georgia Tech Research Institute to provide occupational safety and health training for hurricane recovery workers in the Gulf Coast area. **Dan Ortiz** was quoted in the article, which also appeared in the following outlets: *Building Services Management, Columbus Ledger-Enquirer, Industrial Hygiene News, Macon Telegraph* and WSB-TV. See the *Research Horizons* article @ **gtresearchnews.gatech.edu/reshor/rh-f05/katrina.html**

Mechanical Engineering and *Computerworld* magazines reported on the Georgia Tech Research Institute's work to demonstrate the potential for WiMax technology in extending Internet access to rural areas. Researcher **Jeff Evans** was quoted. See the R*esearch Horizons* article @ **gtresearchnews.gatech.edu/newsrelease/wi-max.htm**

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Electronic Engineering Times reported on Georgia Tech work aimed at using silicon-germanium circuitry to reduce the cost of high-performance phased-array antennas. The work involves collaboration between the Georgia Tech Research Institute and the Georgia Electronic Design Center. It is being done by **John Cressler, Mark Mitchell** and **Tracy Wallace**. Other outlets reporting on this work include *Chip Scale Review*. See the *Research Horizons* article on page 16 in this issue.

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The *Atlanta Business Chronicle* published an article on an improved Georgia Tech process for creating body armor for soldiers. The work is led by **Robert Speyer** in the School of Materials Science and Engineering. Other media reporting on the work included *Advanced Materials & Processes, Chemical Week* and *National Defense*. See the *Research Horizons* article @ **gtresearchnews.gatech.edu/newsrelease/boron-carbide.htm**

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OE Magazine covered the work of a Georgia Tech physics research team that published a recent report in the journal *Nature Physics*. The group, headed by **Michael Chapman**, found that the coherence properties that are the hallmark of Bose-Einstein condensates extend to the spin states of the atoms that make up the unusual form of matter. Other news outlets reporting on the work were *Space Daily* and *Computer Zeitung*. See the Research News article @ **gtresearchnews.gatech.edu/newsrelease/coherent.htm**