

## Faculty Research in the News

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

*Advanced Materials & Processes* covered a Georgia Tech study of unusual charge behavior in nanometer-scale clusters of niobium at very low temperatures. The research, published in the journal *Science*, was led by Professor of Physics **Walter de Heer**. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/niobium.htm](http://gtresearchnews.gatech.edu/newsrelease/niobium.htm)).

*Dallas Morning News* covered Georgia Tech research into a new compound with anti-tumor and anti-fungal activity. Assistant Professor of Chemistry and Biology **Julia Kubanek** and collaborators at the Scripps Institution of Oceanography reported the findings in the *Proceedings of the National Academy of Sciences*. The trade publication *Sea Technology* also covered the research. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/seaweed.htm](http://gtresearchnews.gatech.edu/newsrelease/seaweed.htm)).

*Business Week's* "Developments to Watch" section covered Georgia Tech research on a lower-temperature process for producing hydrogen for home and automotive fuel cells. Professor **Z.L. Wang** in the School of Materials Science and Engineering leads the research. *Chemical Engineering*, *Chemical Engineering Progress*, *Industry Week* and *In Tech* also covered this research. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/oxygenpump.htm](http://gtresearchnews.gatech.edu/newsrelease/oxygenpump.htm)).

*Governing* magazine covered Georgia Tech's work on recycling used electronic equipment. The research, conducted by Professor **Jane Ammons** in the School of Industrial and Systems Engineering and Associate Professor **Matthew Realff** in the School of Chemical Engineering, aims at developing a system to "demanufacture" electronic equipment to remove toxic materials. *Science and Children*, *the Atlanta*

photo by Caroline Joe



Julia Kubanek

*Business Chronicle* and *Industrial Engineer* also covered this research. (See the **RESEARCH HORIZONS** article at [gtresearchnews.gatech.edu/reshor/rh-f02/ewaste.html](http://gtresearchnews.gatech.edu/reshor/rh-f02/ewaste.html)).

*Machine Design* reported on robotics research being done by GTRI senior research engineer **Tom Collins** and College of Computing Regents Professor **Ron Arkin**. The researchers are creating more intelligent robots by combining reflexive behavior with cognitive functioning. (See the **RESEARCH HORIZONS** article at [gtresearchnews.gatech.edu/reshor/rh-ss03/robots.html](http://gtresearchnews.gatech.edu/reshor/rh-ss03/robots.html)).

*R & D Magazine* reported on Georgia Tech's work on a simpler process for producing a key component of organic light-emitting diodes. The research is led by **Marcus Weck** in the School of Chemistry and Biochemistry. *Photonics Spectra* and *Chemical Week* also covered this research. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/alq3.htm](http://gtresearchnews.gatech.edu/newsrelease/alq3.htm)).

*R & D Magazine* reported on Georgia Tech's development of a new optical technique for controlling small volumes of fluid on solid surfaces. The research, which could be the basis for a new class of microfluidic devices, is led by Associate Professor of Physics **Michael Schatz** and his colleagues **Roman Grigoriev** and **Nicholas Garnier**. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/surfacetension.htm](http://gtresearchnews.gatech.edu/newsrelease/surfacetension.htm)).

*Science News* covered research on the development of a laser-based technique for creating patterns in self-assembled colloidal crystals produced from hydrogel nanoparticles – soft spheres that respond to heat by changing size. The research is led by Professor **Andrew Lyon** in the School of Chemistry and Biochemistry. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/patterning.htm](http://gtresearchnews.gatech.edu/newsrelease/patterning.htm)).

*Sensors* reported on a Georgia Tech/Emory University project to develop "molecular beacons" that detect the messenger RNA of cancer. Associate Professor of Biomedical Engineering **Gang Bao** is the principal researcher, and he's formed a company, Vivonetics, with Dr. **Karim Godamunne**. *The Medical Post* and the *Atlanta Business Chronicle* also covered this research. (See the **Research News** article at [gtresearchnews](http://gtresearchnews)).

photo by Gary Meek



Marcus Weck and researcher Amy Meyers

[gatech.edu/newsrelease/beacons.htm](http://gatech.edu/newsrelease/beacons.htm)).

*Scientific American.com* reported on Georgia Tech research into how a unique aspect of seahorse reproduction leads to the development of new species. The research, led by Assistant Professor **Adam Jones** in the School of Biology was reported in the *Proceedings of the National Academy of Sciences*. (See the **Research News** article at [gtresearchnews.gatech.edu/newsrelease/seahorse.htm](http://gtresearchnews.gatech.edu/newsrelease/seahorse.htm)).

courtesy NOAA



*Water Environment & Technology* described a new disinfection process being developed by researchers in GTRI and the School of Chemical Engineering. The new process is more efficient than current methods of treating water. The research is led by senior research engineer **John Pierson** in GTRI and Associate Professor of Chemical Engineering **Larry Forney**. *Chemical Engineering Progress*, *Materials Performance* and *Food Production Management* also covered this research. (See the **RESEARCH HORIZONS** article at [gtresearchnews.gatech.edu/reshor/rh-w03/water.html](http://gtresearchnews.gatech.edu/reshor/rh-w03/water.html)).

*WSB-TV* aired a two-part series on alternative fuels. It included interviews with two GTRI researchers, **Chuck Stancil** and **David Parekh**. Stancil described his hybrid automobile, and Parekh discussed research at the Center for Innovative Fuel Cell and Battery Technologies, which he directs. (See the **RESEARCH HORIZONS** article at [gtresearchnews.gatech.edu/reshor/rh-ss02/e-fuel.html](http://gtresearchnews.gatech.edu/reshor/rh-ss02/e-fuel.html)).

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