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imaging



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Highlights

- excellent resolution 4008x2672pixel
- 14bit dynamic range
- image memory in camera up to 4GB
- low noise of 14e- rms @ 8MHz
- fast image recording - 128MB/s
- Standard Interfaces (IEEE1394, camera link, ethernet)

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the future of Earth's climate. While the models do have some imperfections, he writes, "these imperfections don't constitute an argument for waiting" to take action.

"I tried to underscore that there is controversy and differences of opinion," Bennett said, "but there is also a consensus of opinion among scientists about global warming."

Chemist Sherwood Rowland, of the University of California, Irvine, gave the keynote address at the AAAS conference. Nine other scientists also made presentations.

Jim Dawson

News Notes

Money for UCF. The University of Central Florida's College of Optics and Photonics in Orlando is receiving \$24 million worth of patents, patent applications, hardware, and grants from Northrop Grumman Corp to significantly boost the school's research in extreme UV lithography. The gift is intended to make the school a leader in the extreme UV process that industry experts believe will, in the next several years, become the primary method for manufacturing smaller, higher-density computer chips.

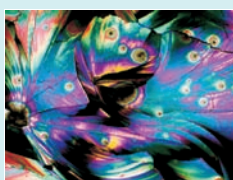
The gift "gives us a platform to train the future scientists and engineers who are going to be needed as this new form of lithography comes into being," said UCF optics professor

Martin Richardson. "We can now broaden our optics program into a program of major impact in the extreme ultraviolet lithography field." The donation is the largest in UCF history, a school spokesman said.

Los Angeles-based Northrop Grumman has two divisions located near UCF and has a long-standing working relationship with the College of Optics and Photonics. The company's scientists have worked with UCF researchers on lasers, communications systems, and land-mine detection systems. "The university will leverage the intellectual property and equipment we are donating to continue expanding the boundaries of chip-making processes," said Wes Bush, president of Northrop Grumman's space technology division. JLD

Labs merge publications. This month, Fermilab and SLAC launch *Symmetry*, a merger of the two Department of Energy labs' long-standing publications, *FermiNews* and *Beam Line*. *Symmetry* is designed to enhance dialogue between the particle physics community and the science policy community, says editor David Harris. The 32-page publication will come out 10 times a year; the first issue includes articles on the effects of internationalization of particle physics and on neutrino experiments under ice and water. Further information is available at <http://www.symmetrymagazine.org>. PKG ■

WEB WATCH

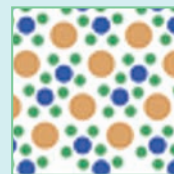


<http://micro.magnet.fsu.edu/micro/gallery.html>

If you've ever wondered what crystallized Piña Colada looks like magnified under polarized light, then visit the **Molecular Expressions Photo Gallery**. Maintained by the National High Magnetic Field Laboratory at Florida State University in Tallahassee, the gallery displays micrographs of a wide range of scientific and everyday objects.

<http://alloy.phys.cmu.edu>

Carnegie Mellon University's Marek Mihalkovic and Michael Widom use density functional theory to calculate the structure and cohesive energies of more than 1500 intermetallic compounds. Organized around phase diagrams, Mihalkovic and Widom's **Alloy Database** is especially rich in quasicrystal and metallic glass-forming compounds.



<http://physics.nist.gov/PhysRefData/HDEL>

From the physics laboratory at NIST's Gaithersburg, Maryland, campus comes **Energy Levels of Hydrogen and Deuterium**. The online database was created by Svetlana Kotochigova, Peter Mohr, and Barry Taylor. It contains calculated energy levels of both hydrogen and deuterium for principal quantum numbers from 1 to 200 and for all allowed values of orbital and total angular momentum.

To suggest topics or sites for Web Watch, please visit <http://www.physicstoday.org/suggestwebwatch.html>.

Compiled and edited by Charles Day