

Help - Help for Webmasters

« back to results for "msnbc argonne"

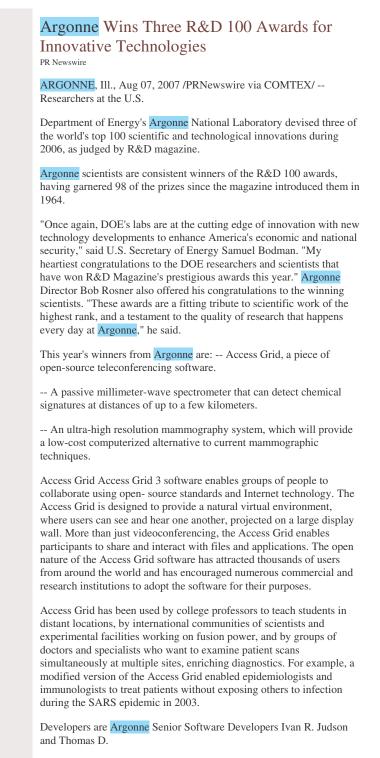
Below is a cache of http://www.msnbc.msn.com/id/20166396/. It's a snapshot of the page taken as our search engine crawled the Web. We've highlighted the words: msnbc argonne

The web site itself may have changed. You can check the current page (without highlighting) or check for previous versions at the Internet Archive.

Yahoo! is not affiliated with the authors of this page or responsible for its content.

○ Web ● MSNBC Search





Uram, Research Manager Michael E. Papka, Associate Laboratory

Director for Computer and Life Sciences Rick L. Stevens and University of Chicago Software Developers Susanne Lefvert and Eric C. Olson.

Passive Millimeter-Wave Spectroscopy (PmmWS) Passive millimeter-wave spectroscopy provides a new and potentially vital tool for fighting the war on terror. Unlike traditional chemical gas detectors, which operate by transmitting a signal and then processing the reflected response, PmmWS works similarly to an infrared camera, as it emits no signal but merely captures emitted radiation from a gas plume.

Using their spectroscope, the researchers were able to detect nitric oxide releases from the Nevada test site at a concentration of around one part per thousand from a distance of 600 m, with a potential for tenfold increase in sensitivity. No previous attempt at detecting terrestrial chemical gases had surpassed this measure of performance and with less susceptibility to cloud and other atmospheric interference. Nitric oxide is a common byproduct of nuclear fuel reprocessing operations.

Such remote-sensing capabilities will allow watchdog agencies or national security organizations to covertly or overtly monitor the signatures of chemicals emitted from "suspect" processing facilities, and may help to prevent additional nuclear proliferation. The technology also has environmental and biomedical applications.

Developers are Argonne Senior Electrical Engineer Sami Gopalsami, Electrical Engineer Sasan Bakhtiari, Department Manager Paul Raptis, Special Term Appointee Thomas W. Elmer and Senior Technician Ronald N. Lanham.

Ultra High-Resolution Mammography System The Ultra-High Resolution Mammography System (UHRMS) equips doctors with a low-cost, high-quality alternative to digital radiography, which is now the most popular mammographic technology at leading hospitals. UHRMS represents a form of computed radiographic technology, which means that instead of using traditional x-ray film to capture images, doctors can use a glass-ceramic imaging plate which then can be fed into a computer and digitized.

The Ultra-High Resolution Mammography System offers several notable improvements over common x-ray films and scintillating screens, including reusability, wide dynamic range and direct digitization.

Developers are Argonne scientist Jacqueline Anne Johnson, SUNY-Stony Brook Research Assistant Professor Anthony R. Lubinsky and University of Paderborn (Germany) Scientific Employee Stefan Schweizer.

With employees from more than 60 nations, Argonne National Laboratory brings the world's brightest scientists and engineers together to find exciting and creative new solutions to pressing national problems in science and technology.

The nation's first national laboratory, Argonne conducts leading-edge basic and applied scientific research in virtually every scientific discipline. Argonne researchers work closely with researchers from hundreds of companies, universities, and federal, state and municipal agencies to help them solve their specific problems, advance America's scientific leadership and prepare the nation for a better future. Argonne is managed by UChicago Argonne, LLC for the U.S. Department of Energy's Office of Science.

SOURCE Argonne National Laboratory CONTACT: Jared Sagoff of Argonne National Laboratory, +1-630-252-5823, jsagoff@anl.gov URL: http://www.anl.gov

http://www.prnewswire.com www.prnewswire.com Copyright (C) 2007 PR Newswire. All rights reserved -0- KEYWORD: Illinois INDUSTRY KEYWORD: CPR

EDU

HED SUBJECT CODE: AW	VD
Print this	Email this
Latest from CNBC [ more ]	
Bond Prices Help Ease Street Fea	ars
Best Trades Now: What Does the	Market Hold?
Congress, White House: Up For I	_ate Summer Fight?
Buckle Up - Are You Ready to Re	test the Lows?
Student Loans Securitization Bra	ces for A Blow
Apple's 'Beat' To Go On Tomorro	w (Be Here!)
Nissan U.S. August Sales Up 6.3	Percent
Ford Says U.S. Sales Skidded 14	% in August

<u>Cover</u> | <u>U.S. News</u> | <u>Politics</u> | <u>World News</u> | <u>Business</u> | <u>Sports</u> | <u>Tech/Science</u> | <u>Entertainment</u> | <u>Travel</u> | <u>Health</u> | <u>Blogs Etc.</u> | <u>Weather</u> | <u>Local News</u>

Newsweek | Today Show | Nightly News | Dateline NBC | Meet the Press | MSNBC TV

About | Alerts | Newsletters | RSS | Mobile | Podcasts | Site Map | Help | News Tools | Jobs | Contact Us | Terms & Conditions | Privacy
© 2007 MSNBC.com

MSN Privacy | Legal

Feedback | Help