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FIRSTGov for SCIENCE

Science.gov

2005 Fall Federal Depository Library Conference.
Washington, DC
October 18, 2005

Eleanor Frierson (National Agricultural Library)
Thomas Lahr (US Geological Survey)
Science.gov Alliance Co-Chairs



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FIRSTGov for SCIENCE

What is Science.gov?

- FirstGov for Science cross-agency portal
- A large scale collaboration to make government science information available via one location
- A wealth of information the user can find without knowing the sponsoring agency
- Unique search tool that digs deeply to find otherwise hidden information



What is Science.gov?



With National Archives and Records Administration Support

An extraordinary partnership of information operations



Workshop I: The Vision

DOE convenes first workshop
May 2000 at National Academy of Sciences



Panelists from academia, government, and industry

- Adjust to changing modes of science communications
- Respond to call of National studies
- Enthusiastic endorsement to establish infrastructure

Workshop II: Challenges

- Broad scope of Federal research and development missions in science and technology
- Wide ranging interests of potential audiences
- Taxonomy issues given the broad scope and audience
- Blending resources from different agencies into cohesive functionality and page design
- Resources, funding and sustainability

Workshop II: The Alliance

- Web is the tool of choice for information dissemination
- Science is not bounded by organization or geography
- Each science agency has information & services to fulfill its mission— to bring to Internet table
- Interagency collaboration is necessary



The Alliance Potluck Party

17 organizations from 12 agencies

- **Department of Agriculture**
National Agricultural Library
United States Forest Service
- **Department of Commerce**
National Institute of Standards and Technology
National Technical Information Service
- **Department of Defense**
Defense Technical Information Center
- **Department of Education**
National Library of Education
- **Department of Energy**
Office of Scientific and Technical Information
- **Department of Health and Human Services**
Food and Drug Administration
National Institutes of Health
National Library of Medicine
- **Department of Interior**
United States Geological Survey
National Biological Information Infrastructure
- **Environmental Protection Agency**
Office of Environmental Information
Office of Research and Development
- **National Aeronautics and Space Administration**
Scientific and Technical Information Program
- **National Science Foundation**
- **United States Government Printing Office**
- With additional support from the
National Archives and Records Administration



Science.gov Alliance Vision

- Provide cross-agency, gateway access to selected, authoritative U.S. government science and technology resources for the science-attentive citizen, including science professionals, students, teachers, business people, and members of the public interested in science

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Browse topic: ([Science.gov home](#))>**Energy & Energy Conservation**

Narrower topics:

Energy Conservation	Fossil Energy
Energy Efficiency	Nuclear power
Energy Policy and Studies	Renewable Sources
Energy Use, Supply, and Demand	

ABCDEFGHIJKLMNOPQRSTUVWXYZ

A:
[Advanced Batteries Research, Engineering, and Evaluation Facility \(ABREE\)](#) - Expertise in the development, design, production, and evaluation battery and other energy storage technologies [Department of Energy (DOE), Sandia National Laboratories]
[Alternative Fuels Data Center Resources and Documents](#) - Provides links to resources and documents about alternative fuel and alternative fuel vehicle (AFV) technologies, programs, funding, regulations, contacts, and more [Department of Energy (DOE)]
[Argonne Library's Resources on the Internet](#) - Provides access to Argonne's subject specific resources [Department of Energy (DOE), Argonne National Laboratory (ANL)]

B:
[Bradbury Science Museum](#) - Provides links to information about high-tech interactive Museum exhibits that explain the Los Alamos National Laboratory's defense, technology, and basic research projects, as well as the history of the Manhattan Project [Department of Energy (DOE), Los Alamos National Laboratory (LANL)]
[Brookhaven National Laboratory Fact Sheets](#) - Provides links to scientific and technical information fact sheets [Department of Energy (DOE), Brookhaven National Laboratory (BNL)]
[Brookhaven National Laboratory Research Centers and Databases](#) - Provides access to research centers at Brookhaven National Laboratory with links to associated highlights and documents [Department of Energy (DOE), Brookhaven National Laboratory (BNL)]
[Building toolbox](#) - Locate software for sustainable design, improving energy efficiency, or incorporating renewable energy concepts in buildings [Department of Energy (DOE), Energy Efficiency and Renewable Energy Network (EREN)]

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Astronomy & Space Exploration, Planets, Space Technologies ...	Health & Medicine Disease, Health Care, Nutrition, Mental Health ...
Biology & Nature Animals & Plants, Ecology, Genetics, Pest Control ...	Math, Physics, & Chemistry Astrophysics, Chemicals, Mathematical Modeling ...
Computers & Communication Networks, Hardware, Software ...	Natural Resources & Conservation Ecosystems, Energy Resources, Forest Science, Mining ...
Earth & Ocean Sciences Land, Maps, Natural Disasters, Oceans, Weather ...	Science Education Homework Help, Teaching Aids, Science Internships ...

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The screenshot shows the science.gov website interface. At the top, there is a navigation menu with links: Home, Site Map, Index, Alerts, Help, Contact Us, About science.gov, Communications, and Members Only. Below the navigation is a search bar with the text "Enter Search Terms" and a "New Search" button. To the right of the search bar is a "Create an Alert from this Query" button and a "See Results by Source" button. The search results are titled "Ranked results for: Hurricane Katrina" and list 10 results, each with a checkbox, a star rating (all are 5 stars), and a title. The results include:

- Hurricane Katrina Impact Studies ... Coastal & Marine Geology Program > Hurricane and Extreme Storm Impact Studies > Hurricane Katrina ... Document is from: Science.gov Web Sites
- Hurricane Katrina Disaster Response ... Hurricane Katrina Disaster Response ... Document is from: Science.gov Web Sites
- Hurricane Katrina NOAA Images ... The imagery posted on this site is of the Gulf coast of Louisiana, Mississippi and Alabama after Hurricane Katrina made landfall. Document is from: Science.gov Web Sites
- Hurricane Katrina, Pregnancy, NCBDDD, CDC ... Hurricane Katrina - Special Populations ... Document is from: Science.gov Web Sites
- Hurricane Katrina Animal Relief Efforts ... veterinary students) to assist in Hurricane Katrina recovery efforts and in future ... Document is from: Science.gov Web Sites
- Hurricane Katrina, Questioning the 'Dutch solution', Enszerink M, Bohannon J. Science. 2005 Sep 16;309(5742):1809. No abstract available. Document is from: PubMed Database
- Hurricane Katrina Response, Environmental Protection Agency ... Hurricane Katrina Response ... Document is from: Science.gov Web Sites
- Hurricane Katrina Response, Environmental Protection Agency ... Hurricane Katrina Response ... Document is from: Science.gov Web Sites
- Hurricane Katrina, Riding out the storm, Gramling C. Science. 2005 Sep 9;309(5741):1657. No abstract available. Document is from: PubMed Database
- Hurricane Katrina - U.S. Department of Defense

The slide features the science.gov logo at the top left. The main title is "Searching Science.gov". Below the title is a rounded rectangular box containing a bulleted list of search capabilities:

- Science.gov Website search—
an index of approximately 1800 sites
- Deep Web Search—
30 large government databases
- Metasearch—
search sources in parallel and return
integrated results



Science.gov Website Search

- The Websites in the Browse by Topic section are also indexed and made searchable.
- USGS maintains this search using a traditional search engine.
- The search engine follows the submitted link, capturing additional information.



Deep Web Search: A Unique Capability

- The Deep Web search capability searches down deeply into the large databases and websites.
- Each agency submits two or three large databases that are then searched in real time.
- If the full text is searched at the site, the full text is searched on Science.gov.
- This function combines searches of PubMed, Medline, Agricola, FDA databases, Energy databases, and other large databases into one search.




Surface Web Deep Web

- Size: Estimated to be 8+ billion (*Google*) to 45 billion (*About.com*) Web pages
- Static, crawlable Web pages
- Large amounts of unfiltered information
- Limited to what is easily found by search engines

- Size: Estimated to be 5 to 500 times larger (*BrightPlanet*)
- Dynamically generated content that lives inside databases
- High-quality, managed, subject-specific content
- Growing faster than surface Web (*BrightPlanet*)

http://www.science.gov/searchdbs.html



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Science.gov 2.1 Sources

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<p>Science.gov Web Sites - searches an index of 1700+ agency-selected sites</p> <p>Agriculture & Food - Food Safety, Gardening, Pesticides, Veterinary Science ... AGRICOLA Agriculture Technology Transfer Automated Retrieval System FDA Food Safety and Applied Nutrition</p> <p>Applied Science & Technologies - Biotechnology, Electronics, Engineering, Transport ... DefenseLINK NIST Data Gateway NIST Publications STINET Report Collection U.S. Patent Server</p> <p>Astronomy & Space - Exploration, Planets, Space Technologies ... NASA Astrophysics Data System NTRS: NASA Technical Reports Server NASA Spacelink</p> <p>Biology & Nature - Animals & Plants, Ecology, Genetics, Pest Control ... National Biological Information Infrastructure (NBII)</p> <p>Earth & Ocean Sciences - Land, Maps, Natural Disasters, Oceans, Weather ... National Oceanic and Atmospheric Administration (NOAA) USGS Water Resource Reports</p>	<p>Energy & Energy Conservation - Energy Use, Fossil Fuel, Solar, Wind ... DOE Alternative Fuels Data Center DOE Information Bridge Energy Citations Database</p> <p>Environment & Environmental Quality - Air/Water/Noise Quality, Cleanup, Climate Change ... EPA Environmental Information Management System EPA Office of Pesticide Programs</p> <p>General Science - Multidisciplinary resources ... National Technical Information Service (NTIS)</p> <p>Health & Medicine - Disease, Health Care, Nutrition, Mental Health ... Biologics Evaluation and Research ClinicalTrials.gov Drug Evaluation and Research MedlinePlus Health Information PubMed</p> <p>Natural Resources & Conservation - Ecosystems, Energy Resources, Forest Science, Mining ... USDA Forest Service Research Publications</p> <p>Science Education - Homework Help, Teaching Aids, Science Internships ... ERIC Database NSF Publications</p>
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Metasearch

- Also known as Federated Search, Distributed Search, Broadcast Search, Data Fusion
- The databases and Websites are searched in parallel through Basic Search with integrated results presented.
- Ability to narrow by subject category or even by specific database through the Advanced Search function
- Results show varied aspects of a subject as reflected by the agencies.

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http://www.science.gov/search-opt/getresults?qry1682817767 results



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Enter Search Terms

Ranked results for: nanotubes

- ★★★★★ [Nanotube news](#) ; 2005-07-01
 Smaller, faster computers, bullet-proof t-shirts, and itty-bitty robots—such are the promises of nanotechnology and the cylinder-shaped collection of carbon molecules known as nanotubes. But for these exciting ideas to become realities, scientists must understand how these miracle molecules perform under all sorts of conditions. For, without nanoscience, there would be no nanotechnology. In a rec...
 Document is from: ERIC
- ★★★★★ [Nanotube Sensors](#)
 Under this project, we explored the feasibility of utilizing carbon nanotubes in sensing applications. The grant primarily supported a graduate student, who worked on a number of aspects of the electrical properties of carbon nanotubes in collaboration with other researchers in my group. The two major research accomplishments are described below.
 Document is from: NASA Technical Reports Server
- ★★★★★ [Nanotubes: controlling conductance](#).
 Nordlund K, Hakonen P.
 Nat Mater. 2005 Jul;4(7):514-5. No abstract available.
 Document is from: PubMed Database
- ★★★★★ [Nanotube films and articles](#)
 Document is from: US Patent & Trademark Office Database
- ★★★★★ [Nanotubes, nanoscience, and nanotechnology](#)
 Cohen, Marvin L. ; 2001 Feb 20
 Document is from: Energy Citations Database
- ★★★★★ [Nanotube Reinforcement of Adhesively Bonded Joints](#)
 Over the past five years there has been much excitement about the development of nanotubes and nanofibers and the potential that these materials may offer in enhancing electrical and mechanical properties of systems. The purpose of this paper is to present research into improving the mechanical performance of polymers by using nanofibers as a reinforcement to make high performance composite materials.
 Document is from: NASA Technical Reports Server
- ★★★★★ [Nanotubes May Break Through 'Chip Wall'](#)
 In 1965, just four years after the first planar integrated circuit (IC) was discovered, Gordon Moore observed that the number of transistors per integrated circuit had grown exponentially. He predicted that this would continue, and the media soon began to call his prophesy 'Moore's Law' For nearly forty years, Moore's Law has been validated by the technological progress achieved in the semiconductor industry.
 Document is from: NASA Technical Reports Server
- ★★★★★ [Nanotube/Quantum Dot-Polymer Solar Cells](#)
 Single wall carbon nanotubes used or this study were synthesized using the pulse laser vaporization technique. The as-produced SWNTs were collected from the condensed region on the quartz tube outside the furnace and purified by modification of the previously reported procedure.
 Document is from: NASA Technical Reports Server

http://www.science.gov/search-opt/yourresults?qry1682817767 results



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Results grouped by source for: nanotubes

Documents from Science.gov Web Sites (73):

- ['Metal-Decorated' Nanotubes Hold Promise for Fuel Cells](#)
 ... 'Metal-Decorated' Nanotubes Hold Promise for Fuel Cells ... 'Metal-Decorated' Nanotubes Hold Promise for Fuel Cells ...
- [2nd Joint Workshop on Measurement Issues in Single Wall Carbon Nanotubes](#)
 ... 2nd Joint Workshop on Measurement Issues in Single Wall Carbon Nanotubes ... Nanotubes: ... 2nd Joint Workshop on Measurement Issues in Single Wall Carbon Nanotubes: Purity and Dispersion Part II NIST Gaithersburg, Maryland January 26-28, 2005 ...
- [Nanotech News - Moving DNA into Nanotubes](#)
 ... Nanotech News - Moving DNA into Nanotubes ...
- [A New Class of Carbon Structures](#)
 ... as fullerenes). Formed when vaporized carbon condenses in an atmosphere of inert gas, fullerenes include a wide range of shapes and sizes, including nanotubes of interest in electronics and hydrogen storage. The initial discovery was recognized by the 1996 Nobel Prize in Chemistry, awarded to Richard E ...
- [Nanotechnology Gallery](#)
 ... Carbon Nanotubes ... Growing Carbon Nanotubes ...
- [Workshop on Reliability Issues in Nanomaterials](#)
 ... Measurement Issues in Single Wall Carbon Nanotubes ... This invitation-only workshop on Measurement Issues in Single Wall Carbon Nanotubes brought together leaders in the carbon nanotube community to jointly discuss key measurement ...
- [Nanotechnology Research News](#)
 ... Carbon nanotubes boost hydrogen storage - Nanotech Web ... One millions nanotubes could fit into this period. - Boston Globe ...
- [Taner Yildirim Nanotube Home Page](#)
 Taner Yildirim Nanotube Home Page
- [MSD Research Highlight](#)
 ... of carbon and boron-nitride nanotubes (including favorable elastic modulus and ... Indeed, multiwalled nanotubes (MWNTs) are an essential component ...
- [NCEM research](#)
 ... Carbon Nanotubes as Nanoscale Mass Conveyors ... devices a bit closer, Lawrence Berkeley National Laboratory scientists have used carbon nanotubes to ferry atoms over microscopic distances. In their demonstration experiment, which was ...

Documents from EPA - Environmental Information Management System (21 out of 21):

- [ELECTROCHEMICAL DETERMINATION OF HYDROGEN SULFIDE AT CARBON NANOTUBE MODIFIED ELECTRODES. \(R830900\)](#)
 Carbon nanotube (CNT) modified glassy carbon electrodes exhibiting a strong and stable electrocatalytic response towards sulfide are described. A substantial (400 mV)

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62 new results were found for the week ending on September 9, 2005 for your Science.gov Alert: **fuel cell**

Most relevant new documents (3):

- [Fuel Cell Vehicles](#)
 ... [Fuel Cell Vehicles](#) ... The California Fuel Cell Partnership is a collaboration of auto companies, fuel providers, fuel cell technology companies, and government agencies demonstrating fuel cell electric ...
 Document is from: Science.gov Website Search
- [Solid-oxide fuel cell assembly having a thermal enclosure within a structural enclosure](#)
 Document is from: US Patent & Trademark Office Database
- [Misc EC95-42937-1: Fuel Cell Powered Bus](#)
Fuel Cell Powered Bus Photo Number: EC95-42937-1 Photo Date: January 31, 1995 Formats: 539x480 JPEG Image (99 KBytes) 1150x1024 JPEG Image (504 KBytes) 3000x2670 JPEG Image (4,812 KBytes) Keywords: Miscellaneous Photos
 Document is from: NASA Web Site

Documents from DefenseLink WebSite (1):

- [DoD News: Special Defense Department Operational Update Briefing on Operations in Northwest Iraq](#)
 ... When we happened to capture him, several other foreign fighters and the cell leader that was orchestrating them, he was very happy to talk to us about ... went seven different locations, captured 15 out of 20 terrorist cell members, captured mortar systems, sniper rifles, a very large cache of weapons ...

New documents from the NASA Web Site (4 out of 4):

- [SEPT05Layout](#)
 Building 3 Auditorium Pacesetter Campaign September 21 through October 5 Agency Fair Thursday, September 22 and Friday, September 23, Building 15 Special Event Wednesday, October 5, Car Show/ Ice Cream Social/ Hot Dog Cookout...
- [NASA - Return to Flight Launch Countdown Begins Again Saturat ...](#)
 Return to Flight Launch Countdown Begins Again Saturday
- [NASA - Beneficial Bacteria Up in ARMS](#)
 After a hard day of work, nothing feels better than a long, hot shower. In space, though, water is far too important to spend on such luxuries.
- [NASA - NASA's Space Shuttle Processing Status Report](#)
 NASA's Space Shuttle Processing Status Report: S-071105

Documents from PubMed Database (1):

- [Dissimilatory Fe\(III\) reduction by an electrochemically active lactic acid bacterium phylogenetically related to Enterococcus gallinarum isolated from submerged soil.](#)
 Kim GT, Hyun MS, Chang IS, Kim HJ, Park HS, Kim BH, Kim SD, Wimpenny JW, Weightman AJ.
 J Appl Microbiol. 2005;99(4):978-87

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Choose Web sites and/or subject areas to search:
(View individual resources by clicking on subject headings)

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<input type="checkbox"/> Astronomy & Space Exploration, Planets, Space Technologies ...	<input type="checkbox"/> Health & Medicine Disease, Health Care, Nutrition, Mental Health ...
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<input type="checkbox"/> Earth & Ocean Sciences Land, Maps, Natural Disasters, Oceans, Weather ...	<input type="checkbox"/> Science Education Homework Help, Teaching Aids, Science Internships ...

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- Increased precision is the goal of Science.gov 3.0.
- More sophisticated ranking system— MetaRank
- Forced Boolean searching when target sites do not offer it
- Input syntax to be more in line with user expectations
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- Improved navigation

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Your search: (semiconductors or superconductors) and alloys 29 of 29 sources complete.

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List Marks Clear Marks View Results by: Rank

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- Energy & Energy Conservation - Energy Use, Fossil Fuel, Solar, Wind
- Environment & Environmental Quality - Air/Water/Noise Quality, Cleanup, Climate Change
- General Science - Multidisciplinary resources
- Health & Medicine - Disease, Health Care, Nutrition, Mental Health
 - Center for Biologics Evaluation and Research (CBER)
Center for Biologics Evaluation and Research (CBER) regulation of biological and related products including blood, vaccines, tissue, allergens and biological therapeutics.
 - Center for Drug Evaluation (CDER)
Center for Drug Evaluation and Research (CDER), a USFDA Agency that evaluates drugs
 - ClinicalTrials.gov
The U.S. National Institutes of Health (NIH), through its National Library of Medicine (NLM), provides information on clinical trials primarily in the U.S. and Canada, with some from locations in over 70 countries. Launched in February 2000 it currently contains approximately 5,700 clinical studies.
 - MedlinePlus
MedlinePlus Health Information from the National Library of Medicine
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Library of Medicine's public access to MEDLINE database. MEDLINE is a bibliographic database including bibliographic citations and author abstracts covering various medical disciplines.
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- Launch being planned for 2006

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- Refine and enhance design and search capabilities
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- Continue reviewing the taxonomy
- Continue linking to other Firstgov portals such as kids.gov
- Continue to add members to the Alliance
- Continue to develop support and sustaining resources
- Continue what we do best – collaborate and innovate



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The White House Office of Management and Budget (OMB) reported to Congress on March 1, 2005, that in the implementation of the E-Government Act of 2002, Science.gov was one of the two efforts, government-wide, that is satisfying the requirements of Section 207 "...so citizens can access the results of Federal research."



Science.gov Points of Contact

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- **Gail Hodge**, CENDI/Science.gov Secretariat (Information International Assoc) gailhodge@aol.com