
Not Business as Usual Projects

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Not Business as Usual Projects



- *Why the title?* Most of you know OSTI in relation to its DOE STI business function – that is, STI Management, and we have many products that support our “usual” business, but we are also involved in other projects that support DOE and Office of Science HQ priorities.
- While seemingly different, these “Not Business as Usual Projects” share common goals: 1) advancing science, 2) integrating information, and 3) making that information easily accessible so that it can be easily used by its audience.
- Examples of projects include: Searchable FWP, Office of Science Management System (SCMS), and ScienceEducation.gov

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First Example: Searchable FWP

- *What is Searchable FWP?* S-FWP is SC's new web-based system, developed by OSTI, but driven by users (SC Program Offices, SC Sites, and DOE Laboratories). It provides for submission and search of SC field work proposals (FWPs).
- *Why did we develop Searchable FWP?* Anyone heard of ePMA?
- Well...based on an ePMA user survey, users were frustrated with ePMA. They were frustrated with performance, workflow processes, and difficulty searching and accessing FWPs.

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First Example: Searchable FWP

- OSTI took the “hint” that alternatives needed to be explored due to survey results, costs to maintain it (its “mortgage”), and lack of use. Many programs abandoned the system altogether except for SC and EERE.
- We conducted an Alternative Analysis, and a decision was made to develop a replacement system.
- SC provided resources for new development. Hence, *Searchable FWP was born.*

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First Example: Searchable FWP

- After several months of development, using an iterative process, SearchableFWP was deployed.
- It contains the following functionality:
 - Labs can upload/submit FWPs one by one or via batch upload
 - Appropriate folks are notified about submission, and can return FWPs as necessary.
 - Users can perform a fielded or full-text search for FWPs.
 - Users can modify display of results and download to Excel for easy customization of local reports.

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First Example: Searchable FWP

- *Specifically, who uses Searchable FWP?* You, the DOE laboratories, Office of Science program offices, SC-HQ, and site offices.
- *Is it used, is it liked?* Yes, Searchable FWP is used on a daily basis whether it is to submit an FWP, approve an FWP, or search for an FWP. Feedback indicates that users are pleased with the ease of use and operation.
- *How is it used?* Through basic roles, laboratories submit FWPs through their designated laboratory administrators. The FWP is reviewed/approved by the site office, and the program office receives it. FWPs are searchable as soon as they are submitted.

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First Example: Searchable FWP

- Search and search results screen views.

The screenshot displays two views of the Searchable FWP web application. The left view shows the search criteria form, and the right view shows the search results table.

Search Form Fields:

- FWP Title:
- FWP Number:
- Internal Lab Number:
- System ID:
- Name of Lab: Lawrence Berkeley National Laboratory (LBNL), Ber
- Program:
- B&R Code:
- SC Program Manager:
- Principal Investigator:
- Fiscal Year:
- Date Created: to (MM/DD/YYYY)
- Purpose:
- Status:
- Program Announcement Title:
- Program Announcement Number:
- Project Status:
- Abstract:
- Full Text: geothermal energy
- Latest Version Only:

Search Results Table:

View	Full Text	FWP Title	FWP Number	Lab	SC Program	B&R Code	SC Program Manager	Principal Investigator	Status
		Geochemistry	2009 LBNL 468391 1 BudgetCall	LBNL	SC-22.1	KC0303020, NULL	Nicholas B. Woodward	Ernest L. Majer	Received by Program Office
		Geology, Geophysics and Earth Dynamics	2010 LBNL 468392 BudgetCall Rev1	LBNL	SC-22	KC0303010	Nick Woodward	Ernest Majer	Received by Program Office
		Geology, Geophysics and Earth Dynamics	2011 LBNL 468392 BudgetCall	LBNL	SC-22	KC0303010	Nicholas Woodward	Ernest Majer	Approved by Site Office
		Geology, Geophysics and Earth Dynamics	2009 LBNL 468392 1 BudgetCall	LBNL	SC-22.1	KC0303010, NULL	Nicholas B. Woodward	Ernest L. Majer	Received by Program Office

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First Example: Searchable FWP

- *What now?* OSTI will continue to operate Searchable FWP, and user feedback, new ideas are always welcome.
- *Can I see Searchable FWP in action?* Each laboratory has a laboratory administrator. If you are interested in seeing Searchable FWP in action, your laboratory administrator's name can be provided.
- *Questions?*

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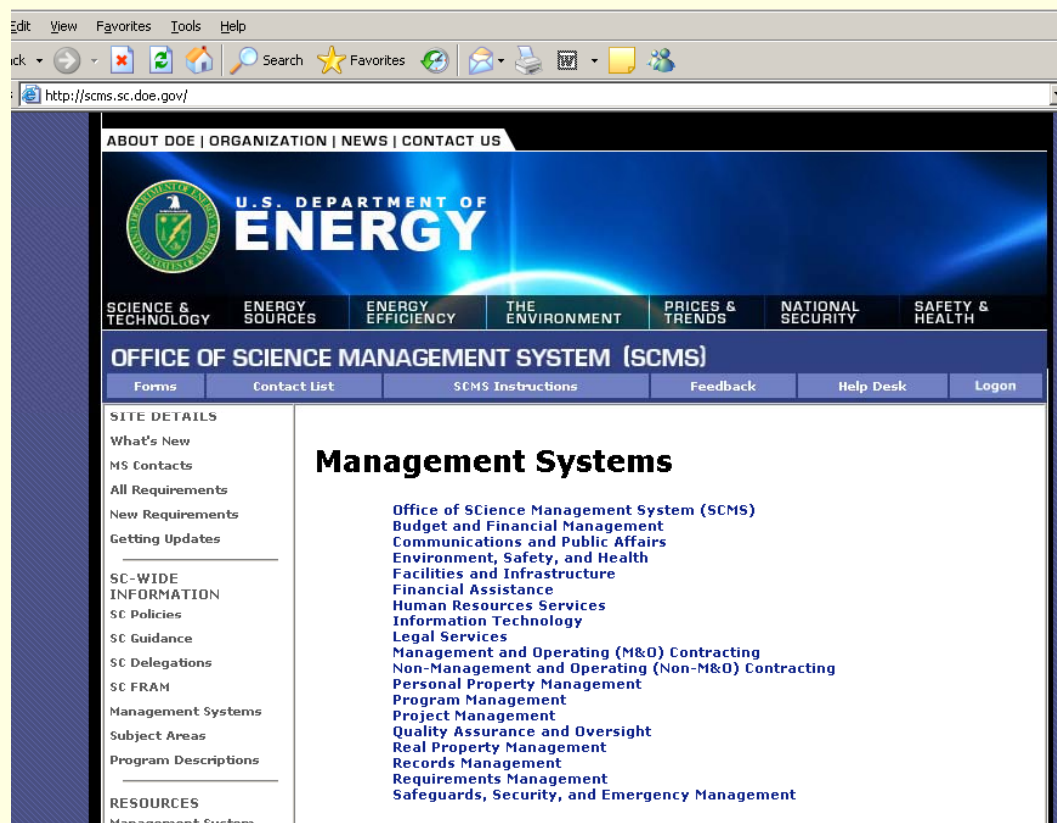
Second Example: Office of Science Management System (SCMS)

- *What is SCMS?* SCMS is an online capability that describes the functions, responsibilities, and authorities SC uses to successfully execute DOE's mission. Many labs have similar systems, like SBMS at ORNL.
- *Why was it developed?* Because of organizational changes and a need to integrate functions across the SC Federal complex.
- *What are the functions?* Functions are called Management Systems in SCMS, and variety of functions are addressed. Each Management System has a Subject Area which is a sub-function of the Management System.

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Second Example: Office of Science Management System (SCMS)

- *Management Systems can be found by going to the SC Home page (www.science.doe.gov), and clicking on the SCMS button.*



The screenshot shows a web browser window displaying the Office of Science Management System (SCMS) website. The browser's address bar shows the URL <http://scms.sc.doe.gov/>. The website features the U.S. Department of Energy logo and a navigation menu with categories such as SCIENCE & TECHNOLOGY, ENERGY SOURCES, ENERGY EFFICIENCY, THE ENVIRONMENT, PRICES & TRENDS, NATIONAL SECURITY, and SAFETY & HEALTH. Below the navigation menu, the page is titled "OFFICE OF SCIENCE MANAGEMENT SYSTEM (SCMS)" and includes sub-navigation options like Forms, Contact List, SCMS Instructions, Feedback, Help Desk, and Logon. The main content area is titled "Management Systems" and lists various services including Budget and Financial Management, Communications and Public Affairs, Environment, Safety, and Health, Facilities and Infrastructure, Financial Assistance, Human Resources Services, Information Technology, Legal Services, Management and Operating (M&O) Contracting, Non-Management and Operating (Non-M&O) Contracting, Personal Property Management, Program Management, Project Management, Quality Assurance and Oversight, Real Property Management, Records Management, Requirements Management, and Safeguards, Security, and Emergency Management. A sidebar on the left contains sections for "SITE DETAILS" (What's New, MS Contacts, All Requirements, New Requirements, Getting Updates), "SC-WIDE INFORMATION" (SC Policies, SC Guidance, SC Delegations, SC FRAM, Management Systems, Subject Areas, Program Descriptions), and "RESOURCES" (Management System).

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Second Example: Office of Science Management System (SCMS)

- *What is OSTI's role in SCMS?* To ensure that the requirements for the management of STI are identified, and the approaches used to manage it, are documented in a clear and concise manner.
- A new Management System is to be added: Scientific and Technical Information Management. The Management System will include the following Subject Areas:
 - Identification of STI
 - Processing of STI
 - Delivery of STI (Dissemination)
 - Preservation of STI
 - STI Collaboration (STIP)

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Second Example: Office of Science Management System (SCMS)

- *How can I use SCMS?* Most of the Management Systems are not password protected, unless there is a need. Therefore, since SCMS is driven by DOE requirements, laboratories can use SCMS as a reference tool to see how key functions are managed within the SC organization.
- *Questions?*

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Third Example: ScienceEducation.gov



- *What is ScienceEducation.gov? What is its basis?*
 - ScienceEducation.gov is a web capability, developed by OSTI, co-sponsored by the SC Office of Workforce Development for Teachers and Students (WDTS), that searches science education content across DOE, mostly provided by the laboratories.
 - The America COMPETES Act of 2007 calls for DOE to “establish a program to coordinate and make available to teachers and students web-based kindergarten through high school science, technology, engineering, and mathematics education resources relating to the science and energy mission of the Department, including existing instruction materials and protocols for classroom laboratory experiments. (Chapter 5, Section 3191)

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Third Example: ScienceEducation.gov



- 34,000 URLs are crawled for science education content. Mostly from the labs, but also from DOE Program Offices.
- Full-text search, with a new technology called Learning Level Stratification (LLS), is used. LLS takes a resource and ranks it based on its learning level. So, if I search on a term and select a grade, I will get results applicable to that grade. This is an average since learning levels are across a sampling of state standards for a given grade.

pr://www.scienceeducation.gov/

Science education.gov

Delivering Science Education Resources to Students and Educators

Home | About | Site Index | Contact Us

Enter Search Term(s):

Select your grade level:

[Advanced Search](#)

ScienceEducation.gov provides access to a wealth of educational materials from selected federal agencies, including modules and classroom resources of the Department of Energy's national laboratory science education programs.

Website under Development

ScienceEducation.gov, a product of the U.S. Department of Energy (DOE) Office of Science (SC), was conceived and developed by the Office of Scientific and Technical Information (OSTI), with support from the Office of Workforce Development for Teachers and Scientists (WDTS).

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Third Example: ScienceEducation.gov



■ Results ►

A screenshot of a Microsoft Internet Explorer browser window displaying search results from ScienceEducation.gov. The browser's address bar shows the URL: http://www.scienceeducation.gov/cgi-bin/search/explcgi. The page header includes the Science Education.gov logo and navigation links: Home, About, Site Index, Contact Us. Below the header is a search bar with the text "(photosynthesis) <and> 6 <in> III" and "1 through 10 out of 10". The search results are listed as follows:

1. **** EIA Energy Kids Page
... production. Carbon dioxide is essential to the **photosynthesis** process that sustains plant and animal life, but it can accumulate in **top navigation bar** trap heat near the earth's surface, ...
http://www.eia.doe.gov/kids/classactivities/carbonseq_intsec.html
2. **** Green Mold
... emerald green do some fungi participate in **photosynthesis**? No, no fungi have green chlorophyll or undertake **photosynthesis**. Green colors are not common in fungi but might occur from other pigments. ...
<http://www.newton.dep.anl.gov/askasci/mole00/mole00427.htm>
3. **** What is photosynthesis?
What is **photosynthesis**? Ask A Scientist[Copyright] Biology Archive What is **photosynthesis**? Question: What is **Photosynthesis**? Gary R Henry Answer: The process in plants by which energy from ...
<http://www.newton.dep.anl.gov/askasci/bio99/bio99279.htm>
4. **** Pollution and Plants
... presence of light and chlorophyll, >> carry on **photosynthesis** at the cellular level to manufacture CHO >> molecules for energy to grow and plants carry on respiration at teh >> cellular level in ...

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Third Example: ScienceEducation.gov



- *What's next?* Two things: DOE deployment and then work toward the goal of an interagency capability, similar to Science.gov, but for science education. We would use our expertise in collaboration and web technologies. We've tested the integration for other agencies and we can do it, but first want to finish for DOE.
- We have convened a meeting among several Federal Agencies to explore collaboration on an interagency product, and governance approach. NASA, NIH, NSF, DoEd, USDA, NOAA participated. Second meeting to be held on May 6th.
- Agencies recommended a different path for product due to audience needs. More to come...

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Third Example: ScienceEducation.gov



- *Misc...* Some ask how is this different from what NSDL is doing? NSDL's focus is on science education research content. Pedagogies, and so forth. How to teach etc... Different from science education content that we are focusing on such as lesson plans, tutorials and so forth.
- *Other Questions?*

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THANK YOU!

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