

Report to LOWG

October 2004

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Susan Tackett
Judy Gilmore

The 2004 Report Includes:

- ❖ Administrative News
- ❖ Product/Service Update
- ❖ New Initiatives

Office of the Director

Walter L. Warnick, Director
Ralph L. Scott, Deputy Director
Vincent J. Dattoria, Sr. Technical Advisor

Administration and Information Services

Brian A. Hitson,
Associate Director

U.S. Representative to International Agreements
Classified Information Program Manager
Cost-Reimbursable Program Manager
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Program Manager
Lead for Budget Formulation and Execution
Contracts Manager
Financial Manager
Lead for Acquisitions and Purchasing
1 Science.gov Way (Facility) Operations Manager
Records Manager
Lead for Document Conversion

Information Systems

Karen J. Spence,
Assistant Director

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Cyber Security Manager
DOE Reports Publisher
DOE R&D Accomplishments Publisher
Electronic Publications Manager
Energy Citations Database Manager
Lead for Customer Liaison
Lead for e-Prints
Lead for Interagency Reports
Lead for IT Infrastructure
Lead for Information Product Requirements
Lead for IT Systems Development and Maintenance
OSTI Product Portfolio Manager
Performance Metrics Manager
Reference Linking Manager
Telecommunications Manager

Program Integration

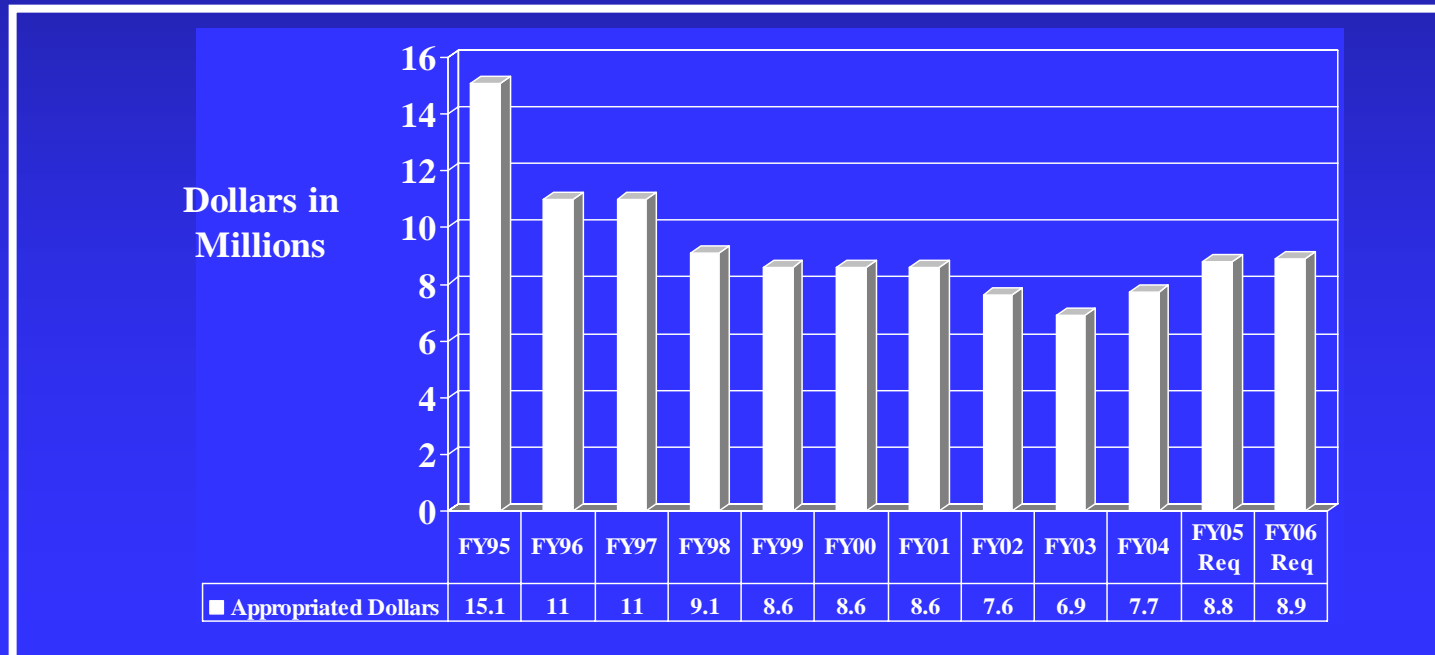
Sharon M. Jordan,
Assistant Director

Consortia Purchasing Manager
DOE Report Processing Manager
Energy Digital Librarian
Lead for E-gov Initiatives
Lead for Laboratory and Operations Office Relations
Lead for Headquarters Program Relations
Lead for Interagency Partnerships
Lead for Promotions and Communications
Harvesting Manager
Lead for STI Policy and Practices
Science.gov Manager
Lead for Strategic Planning
Federal R&D Project Summaries Manager
DOE R&D Project Summaries Manager
Software and Report Requests Manager
Office of Science Homepage Liaison
STI Database Historian

Office of Scientific and Technical Information

<u>Appropriation/ Activity</u>	<u>FY 2004/ Appropriation</u>	<u>FY 2005/ Pres. Request</u>	<u>FY 2006/ Request</u>
SC Program Direction/ TIM Program	\$7.668M	\$8,783M	\$8,909M

Budget Appropriation (FY 1995-2006)



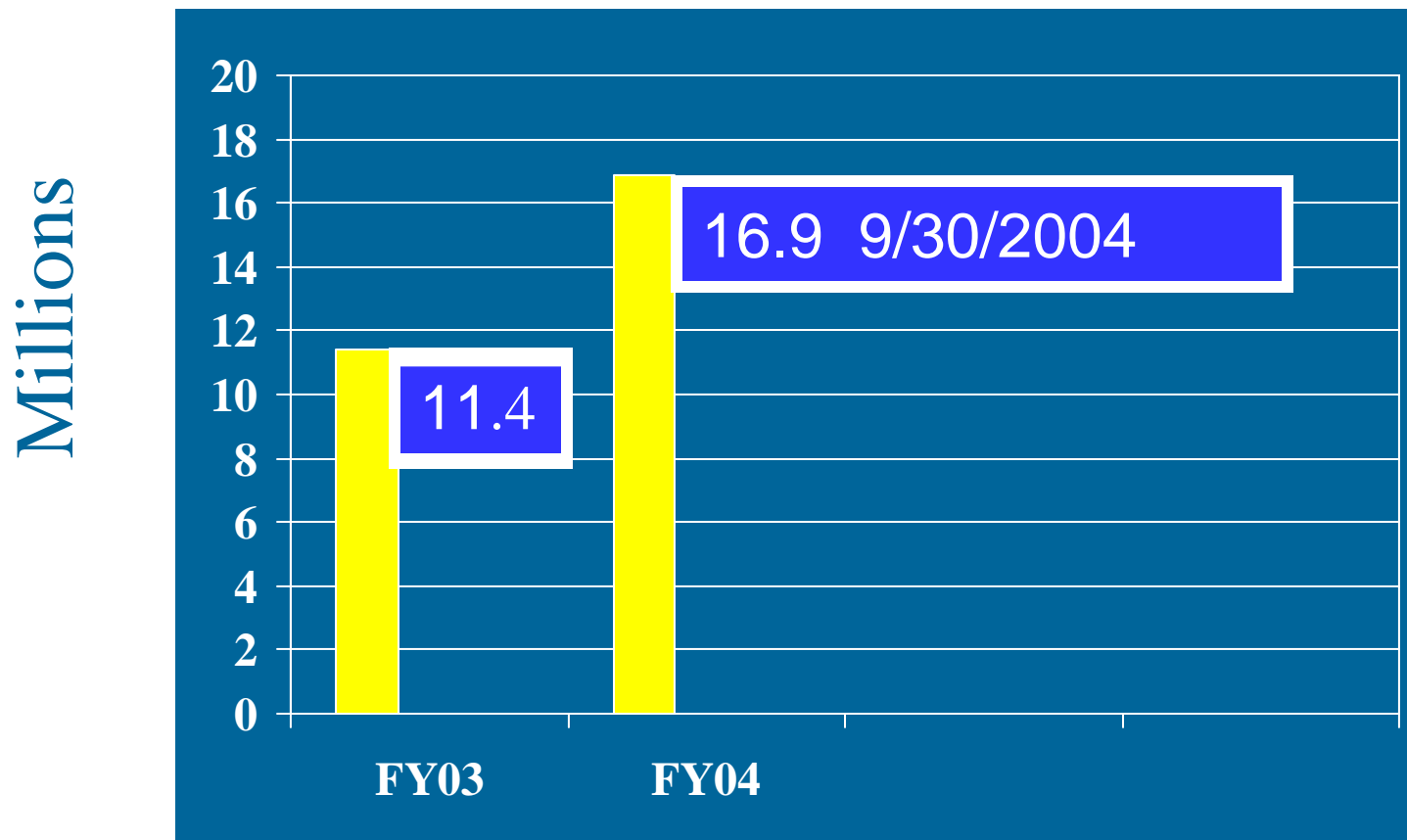
IT A-76 Study Update

- ❖ Position Review Process
 - ❖ 4.7 Federal
 - ❖ 3.5 Contractor
- ❖ Most Efficient Organization (MEO)
- ❖ Schedule

Product/Service Update

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Customer Transactions Accommodated



Partnerships (GPO, NTIS)

- ❖ GPO Realignment Update
- ❖ Status of NTIS Relationship
- ❖ New Services for FDLP

DOE Consolidated Product

- ❖ A single Web-based dynamic product integrating OSTI databases, including DOE Information Bridge, DOE Energy Citations Database, and Controlled Access File
- ❖ Audience = > DOE and DOE Contractors

DOE Consolidated Product

▶ Phase 1 Functionalities

Alert Services ◀ Receive weekly notification of new documents matching your saved search profile

Author Selection ◀ Browse Author listing, or create a user-driven author search

Taxonomy ◀ Browse taxonomy terms; expand to include synonyms and preferred terms; or query to display related terms

Simple and Fielded Search ◀ Options include Boolean search, author browsing, sorting field order, relevance ranking, date searches, limiting to full-text returns

DOE Consolidated Product

Phase I Functionalities Continued

- ❖ Wildcard options
- ❖ Proximity searching
- ❖ Searchable full-text
- ❖ Save search capability
- ❖ Manipulation of search results
- ❖ Shopping cart capability
- ❖ Field sorting options
- ❖ EndNote download capability

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► Fielded Search

Enter search criteria into as few or as many fields as desired, then **SEARCH** **CLEAR FORM**

Sort by: Descending Order
 Ascending Order

Search In:	For Term(s)	Ranking	Limit To:
All Fields	<input type="text"/>	Medium <input type="text"/>	<input type="checkbox"/> Matches with Full Text
Bibliographic Data	<input type="text"/>	Medium <input type="text"/>	<input type="checkbox"/> Count of Matches (with link to citations)
Document Text	<input type="text"/>	Medium <input type="text"/>	(May select year only or year and month only)
Creator/Author	<input type="text"/>	Medium <input type="text"/>	Publication Date From <input type="text" value="YYYY"/> <input type="text" value="MM"/> <input type="text" value="DD"/>
Title	<input type="text"/>	Medium <input type="text"/>	To <input type="text" value="YYYY"/> <input type="text" value="MM"/> <input type="text" value="DD"/>
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Conference Info.	<input type="text"/>	Medium <input type="text"/>	Language <input type="text" value="English"/>
Patent Info.	<input type="text"/>	Medium <input type="text"/>	Country <input type="text" value="Australia"/>
Research Org.	<input type="text"/>	Medium <input type="text"/>	
Sponsoring Org.	<input type="text"/>	Medium <input type="text"/>	

SEARCH **CLEAR FORM**

Taxonomy Tool

Development Site URL:

www.osti.gov/taxonomy/index.jsp

Additional modifications planned in October:

- ❖ Continue the Hierarchy Through Top-Level Terms Down to Narrower Terms in the First Panel
- ❖ Enable Collapse of Tree Segment and Expansion of More than one Segment Simultaneously
- ❖ Help Screens

DOE Consolidated Product

Phase 2 Functionalities

- ❖ Discipline-based segmentation
- ❖ Distributed Deep web searching
- ❖ Distributed searching of other open access databases
- ❖ Enhanced relevancy ranking
- ❖ Full-text manipulation
- ❖ Analysis and information assimilation tools

DOE Consolidated Product

Phase 3 Functionalities

- ❖ Experts section
- ❖ Principal investigator directory
- ❖ Blogs
- ❖ Increased citation indexing
- ❖ Personal libraries
- ❖ Individual workspaces
- ❖ And more....stay tuned!!!

DOE Consolidated Product

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Science.gov 1.0: Launched 12/02

Initial Features:

- ❖ Browse by Subject (1700 sites); broader/narrower categories listed
- ❖ Website search
- ❖ Deep Web search full content of 30 databases using Distributed Explorit
- ❖ Search results sorted by database with links to the websites
- ❖ Special section on Science Internships and Fellowships; special link with logo to Kids.gov; Featured Sites

Participants:

- ❖ Started with 14 STI organizations from 10 federal agencies

Funding:

- ❖ Two FirstGov/OMB grants for specific startup tasks: Deep Web Search and Content Building (\$175,000 total)
- ❖ In kind contributions during '01 and '02
- ❖ Professional indepth user testing funded by USGS and NLM (\$25,000)

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Science.gov 2.0: Launched 5/11/04

Current Features:

- ❖ QuickRank – a title-based mechanism for quickly ranking returns based on a two-step relevancy algorithm
- ❖ Results filtered/sorted by relevancy; can be separated by database
- ❖ Fielded or Advanced Search option; Author, Title, Full Record, Data Range
- ❖ Expansion of the number of databases searchable at one time: 10 databases expanded to 30
- ❖ Search page organized by broad subject
- ❖ “MORE” button for additional returns displayed
- ❖ Regulations section provides metasearch of CFR and the Federal Register

Participants:

- ❖ 17 STI organizations from 12 federal agencies

Funding:

- ❖ DOE SBIR funding for R&D development routine in-kind contributions for other activities

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Science.gov 3.0: Proposed Launch Summer 2005

Proposed New Features:

- ❖ MetaRank – a metadata-based ranking of returns based on a complex relevancy algorithm; may sort returns by database, by QuickRank, by MetaRank
- ❖ Fielded search will be integrated into the Advanced Search
- ❖ Boolean search will be integrated into the Advanced Search
- ❖ Distributed Alerts, a site-wide alert system for notifying users of new material added in their areas of interest; slated as first new function for FY05

Participants:

- ❖ Sponsoring team – DOE, DOD, NIH/NLM, GPO, EPA, USDA Forest Service, USDA NAL, USGS NBII

Financials:

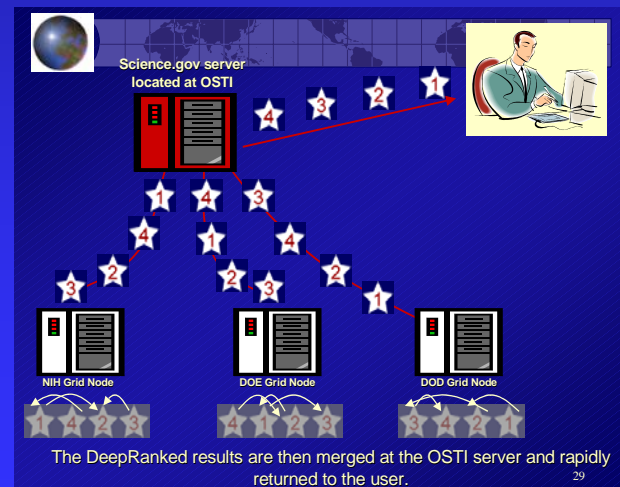
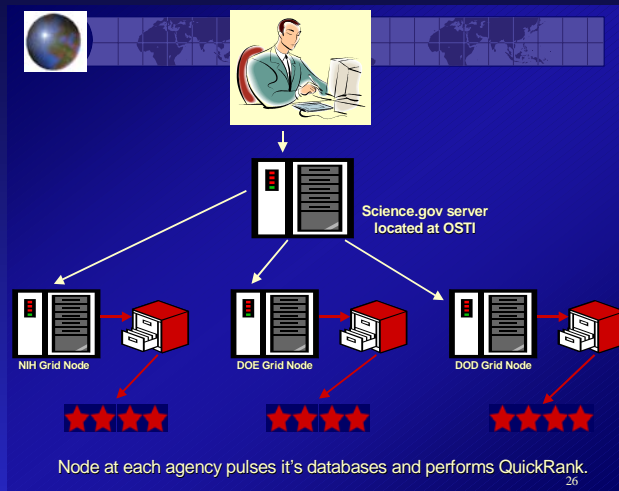
- ❖ \$200,000 funding by voluntary agency contributions for development of Science.gov 3.0

Office of Scientific and Technical Information

Science.gov 4.0: Proposed Launch 2006

Proposed New Features:

- ❖ Deep Rank (full-text relevancy ranking)
- ❖ Grid computing; parallel processing



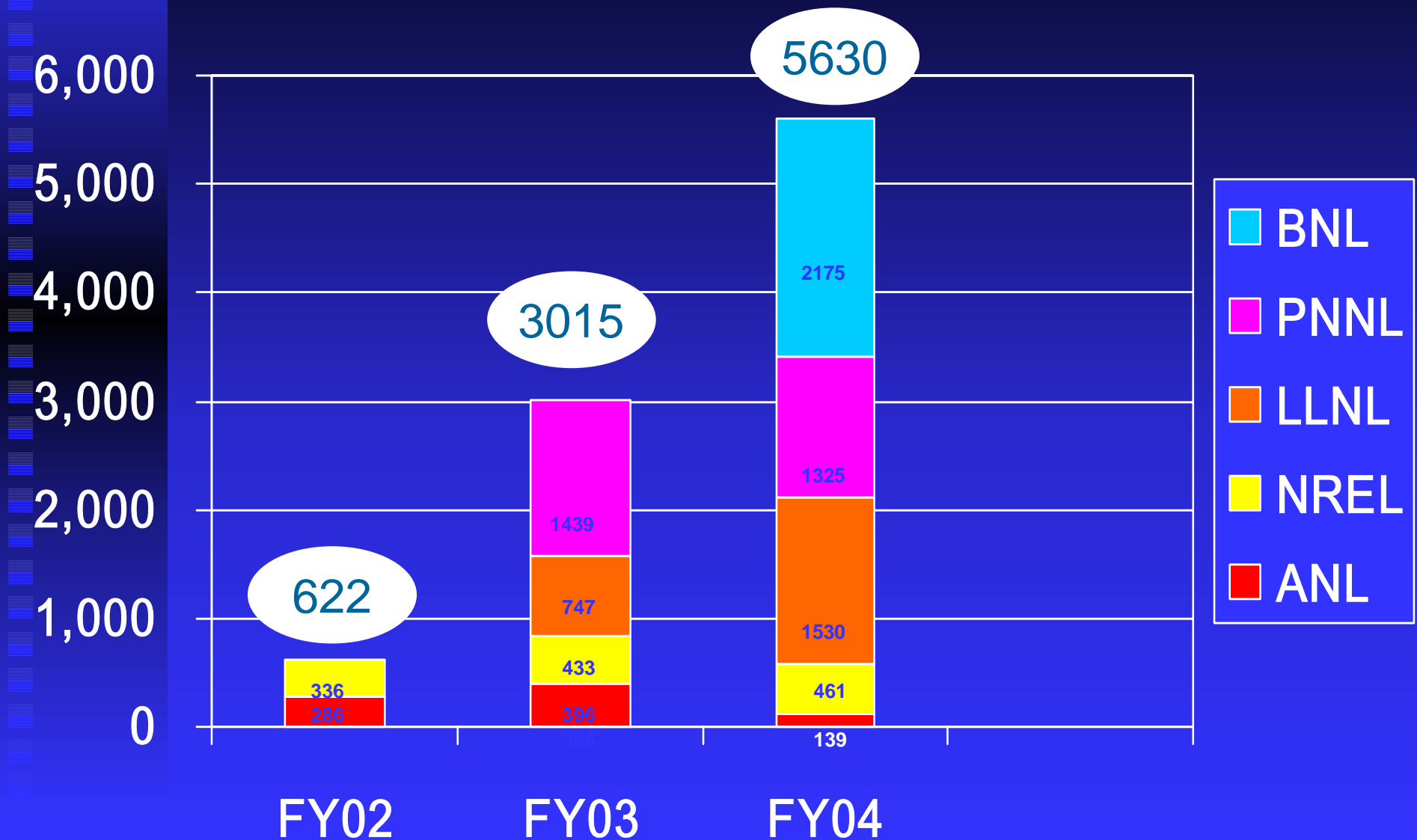
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Harvesting Update

Laboratory	Status
ANL	Production began on new system week of September 13 th .
BNL	All test records have been reharvested. In production now on routine basis. Sent over 1000 journal citations in August in addition to other records!
FNAL	Recently completed the mapping process in preparation for harvesting. Will begin test runs in October.
INEEL	Waiting on additional mapping input from the site.
LLNL	Has been in production since end of December 2002 on old system. Completed changes needed for migration to new system on 8/26/04. Will begin parallel testing early in October.
NREL	Been in production since January 3, 2002. Began parallel testing on the new system in August 2004.
PNNL	Successful transition to the new system. OSTI has a set of records identified that were missed during the first two years of harvesting, and will work with PNNL to get those caught up.
SANDIA	Reviewed mapping and DTD information and making some additional changes internally before moving to the next phase of preparation for harvesting.
SLAC	About to complete the mapping phase, put self-imposed hold due to other activities going on with their systems internally.
SRS	Working on starter map. Held conference call week of 9/6/2004, resolving some firewall issues.

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Harvesting Data



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E-Journals Special Interest Group

Consortium purchasing continues for major publishers such as Elsevier, ACS, Nature, and IEEE

Recent highlights:

- ❖ Shared access at no additional cost for Wiley titles
- ❖ Program expanded to include Office of Science, Headquarters
- ❖ Springer/Kluwer and other proposals underway
- ❖ Proactive approach to licensing, with guidance of LBL
- ❖ Centralized funding option; i.e., AAAS experience

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DOE Data Forum Initiative

Bringing DOE Data Centers together to prepare for the future of data management

- ❖ First meeting July 2004
- ❖ Attendees from 7 data centers such as the National Nuclear Data Center (NNDC), the Carbon Dioxide Information Analysis Center (CDIAC), and the data archives of the Atmospheric Radiation Monitoring (ARM) Program
- ❖ As a result of July meeting, request developed for STIAB to endorse and support request for a DOE Data Management Policy
- ❖ Website/discussion forum being established for data centers group to use as communication tool
- ❖ Updates forthcoming as this initiative evolves

Office of Scientific and Technical Information

STIAB (Scientific and Technical Information Advisory Board)

A significant development in the visibility and profile of STIP within DOE

- ❖ Deputy Secretary McSlarrow issued memo in April requesting representation of each Program Secretarial Office, the NNSA, as well as other DOE offices that impact STI policies
- ❖ Will supercede STICG (Scientific and Technical Information Coordinating Group)

Purpose:

- ❖ Provide advice on the long-rang plans, priorities and strategies for managing and disseminating STI
- ❖ Conduct periodic reviews of STIP
- ❖ Make recommendations on specific STI issues of concern as requested by the Office of the Deputy Secretary

New Initiatives

OSTI's Evolving IT Environment

- ❖ Moving applications and web sites to new web server for modest increase in individual user performance.
- ❖ Will be able to accommodate more total users.
- ❖ Installed fault-tolerant disk arrays to eliminate down time due to disk failures.
- ❖ Installed volume management software to allow resizing of disk partitions without taking data offline.
- ❖ Specifying requirements for new database server.

Open Archives Initiative (OAI)

- ❖ NSDL Partnership
- ❖ Rolling Window Option

Digital Object Identifiers (DOI)

- ❖ ETDE Efforts
- ❖ Potential OSTI Efforts with CrossRef

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