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Focus Areas for FY 2002

Peer-Reviewed Journal Literature

- **Departmental goal in FY02: Measurable increase in DOE journal literature**





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IG Audit Report on “Peer-Reviewed Scientific Literature Generated at DOE’s Light Sources”

www.ig.doe.gov/pdf/ig-0520.pdf

OBJECTIVE:

Determine if abstracts of peer-reviewed scientific journal articles generated from work performed at the Department’s light sources were available for public dissemination through OSTI

RESULTS OF AUDIT:

Not all peer-reviewed scientific journal abstracts generated from work performed at DOE light sources in FY 2000 were available for dissemination through OSTI

Office of Inspector General



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IG Audit Report on “Peer-Reviewed Scientific Literature Generated at DOE’s Light Sources”

RECOMMENDATIONS:

- Periodically update the PubSCIENCE database with bibliographic records made available by the light sources in accordance with Departmental Order 241.1A
- Identify and recover abstracts missing from PubSCIENCE from those publishers having agreements with OSTI
- Collect and disseminate journal citation data from the light sources for peer-reviewed articles not covered by publisher agreements



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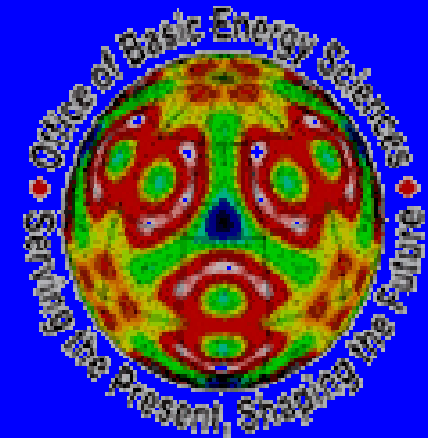
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Corrective Departmental Action

- **DOE's Office of Basic Energy Sciences (BES) sends memo**
- **OSTI communicates with STI community**
- **Technology Options Considered**





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Journal Articles and Copyright

Concern expressed about journal article announcement records and full text journal articles sent to OSTI (copyright infringement)





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DOE General Counsel Position

- **Appropriate for DOE and DOE Contractors to provide OSTI journal citations and copies of journal articles submitted to publishers; approved for publication; or already published**
- **Journal copyright protects only the journal's formatting**
- **DOE entities free to send articles as produced at Government expense, but should not send copies formatted by the journal**

The Office of
**General
Counsel**



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3/20/02



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Submission of Journal Reprints

- When “reprint” is submitted and is copyrighted by the publisher - submitter should mark DOE F 241.1 “announcement citation only”.
- OSTI does not process or make the reprint itself available, but will announce it and cite availability from the publisher.



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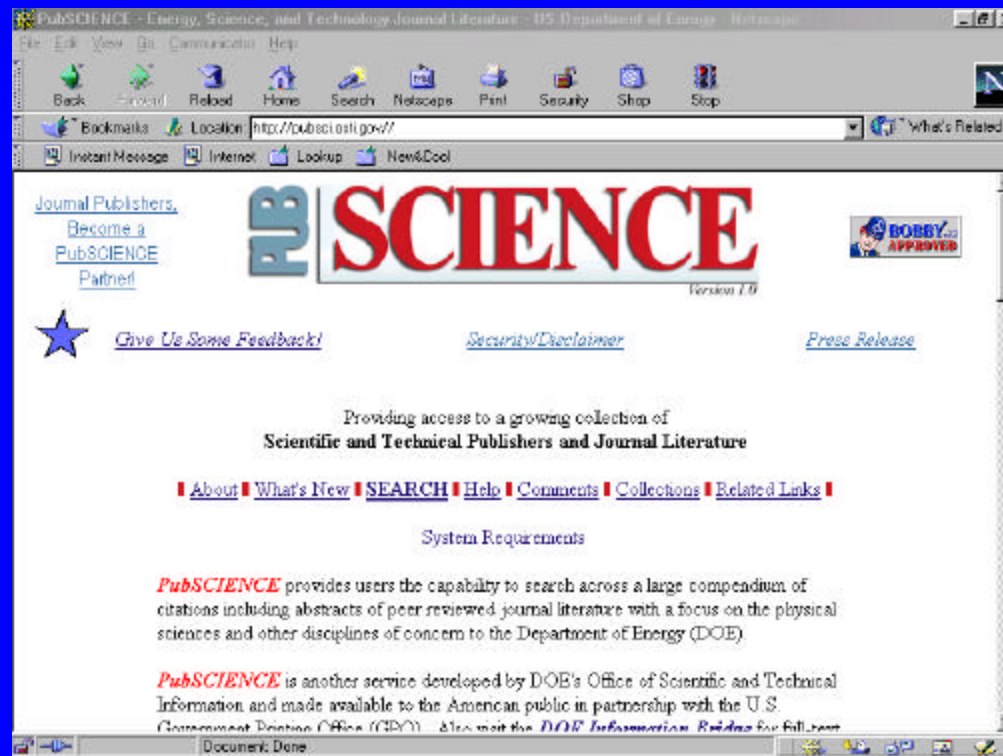
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3/20/02



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PubSCIENCE Future: An Evolution?





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Journal Receipts

Goal

To *double* the FY01 receipts
(1600) in FY02 (3200)

Status

To date, nearly half way
through FY02, receipts (460)
are at **25%** of the goal



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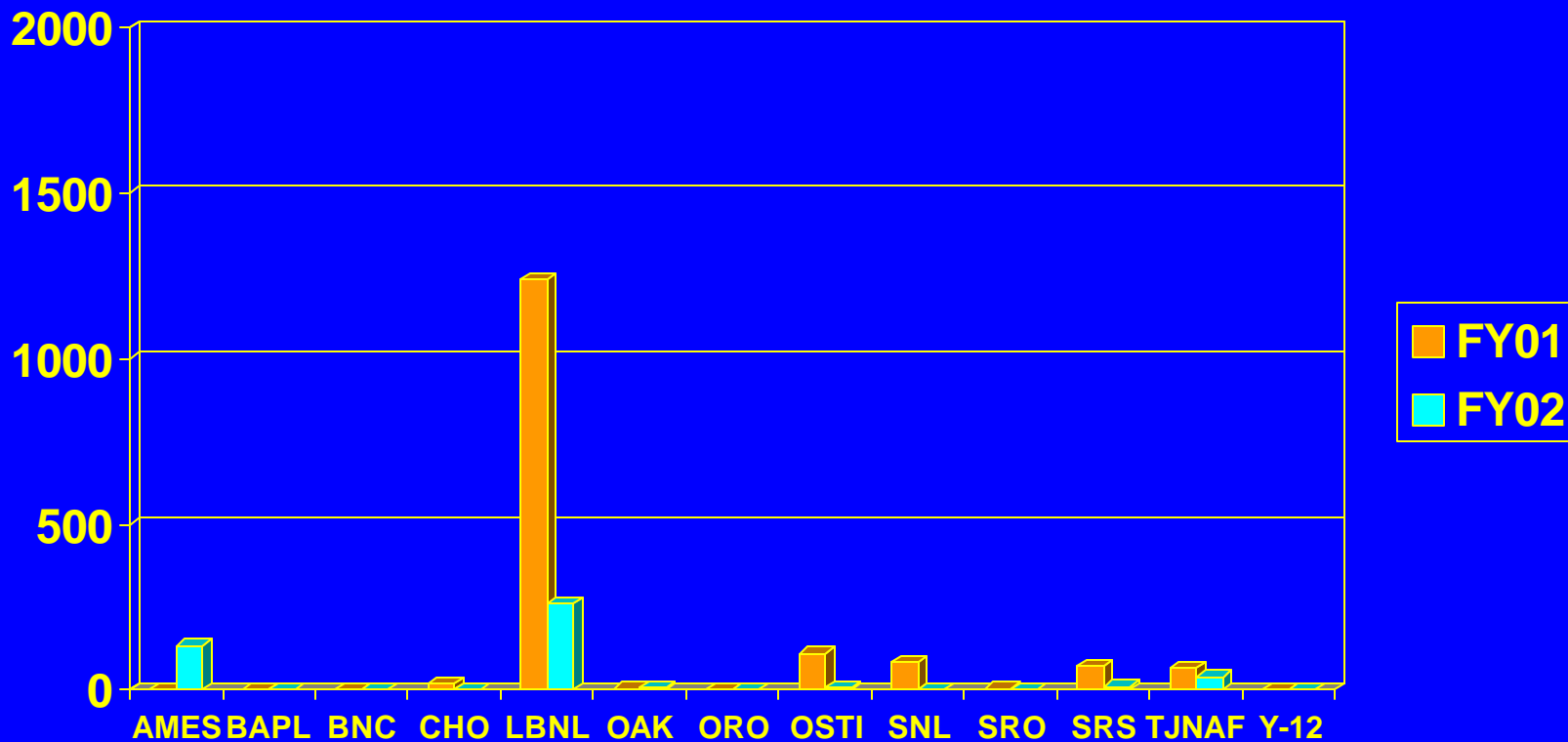
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3/20/02



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Journal Receipts





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Journal Receipts

89% announcement citations only

11% full text (currently preprint & postprint)



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Impact of New Journal & Preprint Definitions

Journal submissions to include only:

- citations
- full text

Preprints should be captured by the PrePRINT Network.



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Harvesting

Harvesting Background:

- **OSTI continues to look at quicker and easier ways to acquire bibliographic and full text information**
- **Currently, DOE sites electronically “send” the bibliographic data and electronic full text**
- **Unclassified unlimited bibliographic information and full-text documents on DOE and contractor Web sites**
- **OSTI is using a distributed technology application to “harvest” STI**



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3/20/02



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Harvesting

OSTI Proposes To:

- **‘Harvest’ a site’s unclassified unlimited bibliographic information and map to Dublin Core metadata**
- **Incorporate the bibliographic information into the OSTI System (repository)**
- **Link to the associated electronic full text located at the site**
- **Make harvested bibliographic information, with links to full text, available on the Energy Citations Databases and other appropriate OSTI Web products**



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3/20/02



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Utilization of the OSTI Data Harvesting Application

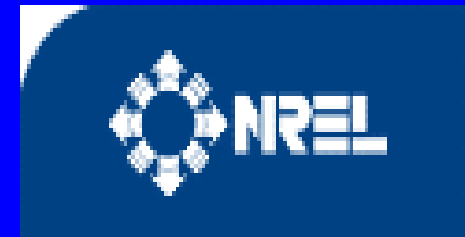
- **EH, Office of Environmental Policy and Assistance**

- Served as harvesting prototype
- Small database (approximately 1,000)
- Limited number of EH database fields (21)



- **National Renewable Energy Laboratory (NREL)**

- Served as first test site
- Large database
- Large number of NREL database fields (86)





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3/20/02



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Benefits of Harvesting

- Capitalizes on the work already done by sites
- Minimizes additional operational requirements for the sites
- Simplifies and accelerates submittal of unclassified, unlimited STI
- Decreases the processing and/or forms input required by DOE sites
- Increases the timeliness of announcement of STI to both DOE and public users
- Minimizes storage requirements for the Department
- Supports Departmental interest in maintaining a centralized collection of citations
- Decreases information management cost and improves information management efficiency



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Harvesting

Lessons Learned

- **Each site situation is unique**
- **A wide range of situations can be accommodated via harvesting**
- **Introductory documentation developed for site use**
- **Begin from the information management perspective while assuring technical requirements can be met**
- **Combination of information management and technical expertise assures success**



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3/20/02



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Harvesting

Technical Implementation Requirements:

- **An up-to-date metadata database for unclassified unlimited documents**
- **A record update (add/change) date field that facilitates metadata selection**
- **A unique record identifier in site's database**
- **Electronic full text corresponding to metadata harvested from the site must be referenced as a site URL in the harvested record**
- **An XML interface so that OSTI can access metadata via a URL with two parameters – start date; end date**
- **A site-developed XML interface must be available at the predefined "harvest time"**
- **A technical contact with which OSTI technical staff can communicate and interact**



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3/20/02



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Harvesting

Implementation Steps:

- **Identification of technical contact at DOE site**
- **Provision of name/labels for bibliographic database fields, definitions for each field, and sample records to OSTI**
- **Mapping of site's records to Dublin Core by OSTI**
- **Creation of output XML file by site**
- **Activation of the OSTI Data Harvester System**
- **Periodic evaluation of program by OSTI and site**