

*BRINGING ELECTRONIC
JOURNALS TO DOE*

*OFFICE OF SCIENTIFIC AND TECHNICAL
INFORMATION*

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WHAT ARE ELECTRONIC JOURNALS?

- They are in most cases duplicates of paper journals in electronic form
 - They typically are represented in HTML or PDF formats
 - In nearly all cases have a subscription fee
 - There are some wholly electronic journals developing in the market place

WHAT ARE ELECTRONIC JOURNALS?

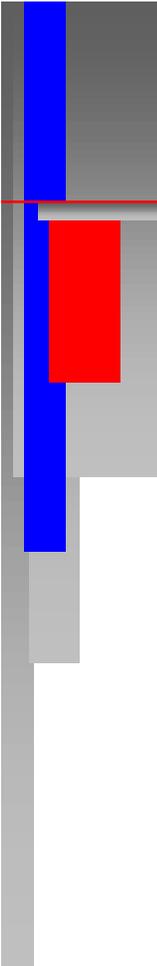
■ Upside

- They are better than paper
- They are replacing paper
- They are searchable
- They are retrospective
- They are accessible from the desktop
- They are the future

WHAT ARE ELECTRONIC JOURNALS?

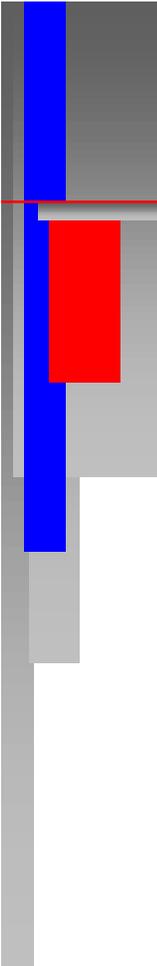
■ Downside

- In some instances they cost more than paper to subscribe to
- In some cases they are slower to be available than paper
- In some cases retrospective availability over time is not assured



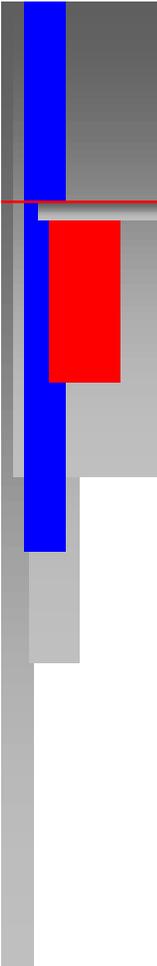
WHY DOES DOE WANT TO USE ELECTRONIC JOURNALS?

- Availability
- Efficiency
- Savings over duplicate subscriptions
- It is how DOE is doing its business and disseminating its R&D information
- It is how the world is doing R&D



WHAT IS THE DOE COMPLEX DOING ABOUT ELECTRONIC JOURNALS?

- National Labs have been in the business for some time
 - Extensive Electronic Journal collections at some sites few at others
 - Electronic Journal collections mirror the needs of the site's researchers
 - Electronic Preprints at several sites are now available on the Web



WHAT IS THE DOE COMPLEX DOING ABOUT ELECTRONIC JOURNALS?

- DOE/ER is heading up two important initiatives
 - Electronic Journal Pilot Project
 - Collaborative Electronic Journal purchasing
- DOE/HR and DOE/ER are participating in a Federal Consortium to purchase Electronic Journals Government-wide

DID YOU KNOW.....?

- DOE's strategic plan calls for established scientific journals to be made electronically available at the desktop by FY 1999.
- DOE has approximately 15,500 subscriptions,
- \$12M annually from DOE's R&D programs are spent on subscriptions
- Journals are essentially not available at Headquarters

DID YOU KNOW.....?

- OSTI developed an inventory database of Department-wide journal subscriptions to:
 - Identify the most popular journals by subscription,
 - Identify the number of journal subscriptions by title and by site,
 - Calculate subscription costs DOE-wide
 - Calculate average cost per journal,
 - Calculate the number of duplicate subscriptions and associated costs.

DID YOU KNOW.....?

SUBSCRIPTION	NUMBER	COST
TOTAL SUBSCRIPTIONS FOR ALL JOURNALS	15,563	\$12,029,637.73
UNIQUE SUBSCRIPTIONS	7,743	\$3,977,831.50
SUBSCRIPTIONS DUPLICATED AT SINGLE SITE	7,820	\$8,051,807.23

DID YOU KNOW.....?

- OSTI has also done a journal title crosscut of the entire Energy Database (EDB)
- OSTI has matched the most common key journal purchases Department-wide with titles in the EDB
- OSTI has identified differences in the journal listings
- OSTI is now matching journal titles with publishers to identify high opportunity targets

DID YOU KNOW.....?

- OSTI has an ongoing Pilot Project providing Electronic Journal access to DOE/HQ and Germantown offices
 - American Physical Society (APS)
 - Society for Industrial and Applied Mathematics (SIAM)
 - American Institute of Physics (AIP)
 - Other Professional Societies are in the works

WHAT IS THE PURPOSE OF THE PILOT PROJECT?

- Develop relationships with providers of Key journals
- Introduce DOE/HQ Program Managers to the Electronic Journal paradigm
- Assist our commercial partners in developing their respective Electronic Journal platforms
- Provide DOE experience in using and providing such a service

HAS THE PILOT PROJECT BEEN SUCCESSFUL?

YES!!

Program Office		Asst. Sec. Congressional, Public and Govern. Affairs	Asst. Sec. Defense Programs	Asst. Sec. Energy Efficiency & Renewable Energy	Asst. Sec. Environment, Safety & Health	Asst. Sec. Environ. Mgt.	Asst. Sec. Fossil Energy	Asst. Sec. Human Resource & Administration	Asst. Sec. Policy & International Affairs	Office of Administrator, Energy Information Administration	Off. Civilian Radioactive Waste Management	Off. Energy Research	Off. General Council	Off. Hearing & Appeals	Off. Inspector General	Off. Nonproliferation & Natl. Sec	Off. Nuclear Energy, Science & Technology	
SIAM	% of Total	0	3.3	1.8	0.0	19.0	0.0	27.4	1.4	14.8	0.7	26.7	0.0	1.4	0.0	1.8	1.4	100.0
	Access	0	9	5	0	53	0	76	4	41	2	74	0	4	0	5	4	277
APS	% of Total	0.2	18.4	0.8	6.3	14.7	.4	15.2	1.0	0.0	0.0	33.1	.7	.7	.3	6.9	1.3	100.0
	Access	4	425	19	147	340	10	351	22	0	2	766	16	16	8	159	30	2,315

WHAT ABOUT THE OTHER INITIATIVES?

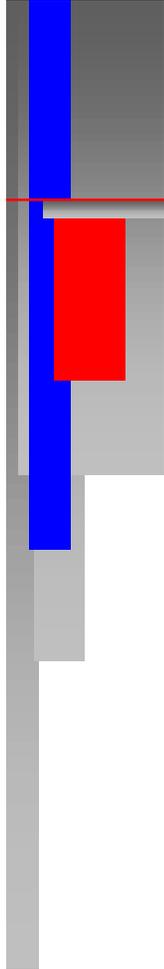
- Scientific and Technical Information Program -- Working Group on Goal #2
 - Goal #2 (G-2) is the collaboration goal
 - The G-2 Working Group has chosen Electronic Journals to be its first collaboration effort
 - The target of the effort is to establish DOE-wide umbrella agreements with publishers for a discounted access to their materials.

WHAT PROGRESS HAS THE G-2 GROUP MADE?

- Established in June 1997 under letter of Director Office Energy Research (23 May 97)
- Meeting twice a month since inception G-2 has:
 - Conducted Survey of currently subscribed to Electronic Journals DOE-wide
 - Identified first suite of publishers to contact
 - Contacted and have begun discussions with publishers

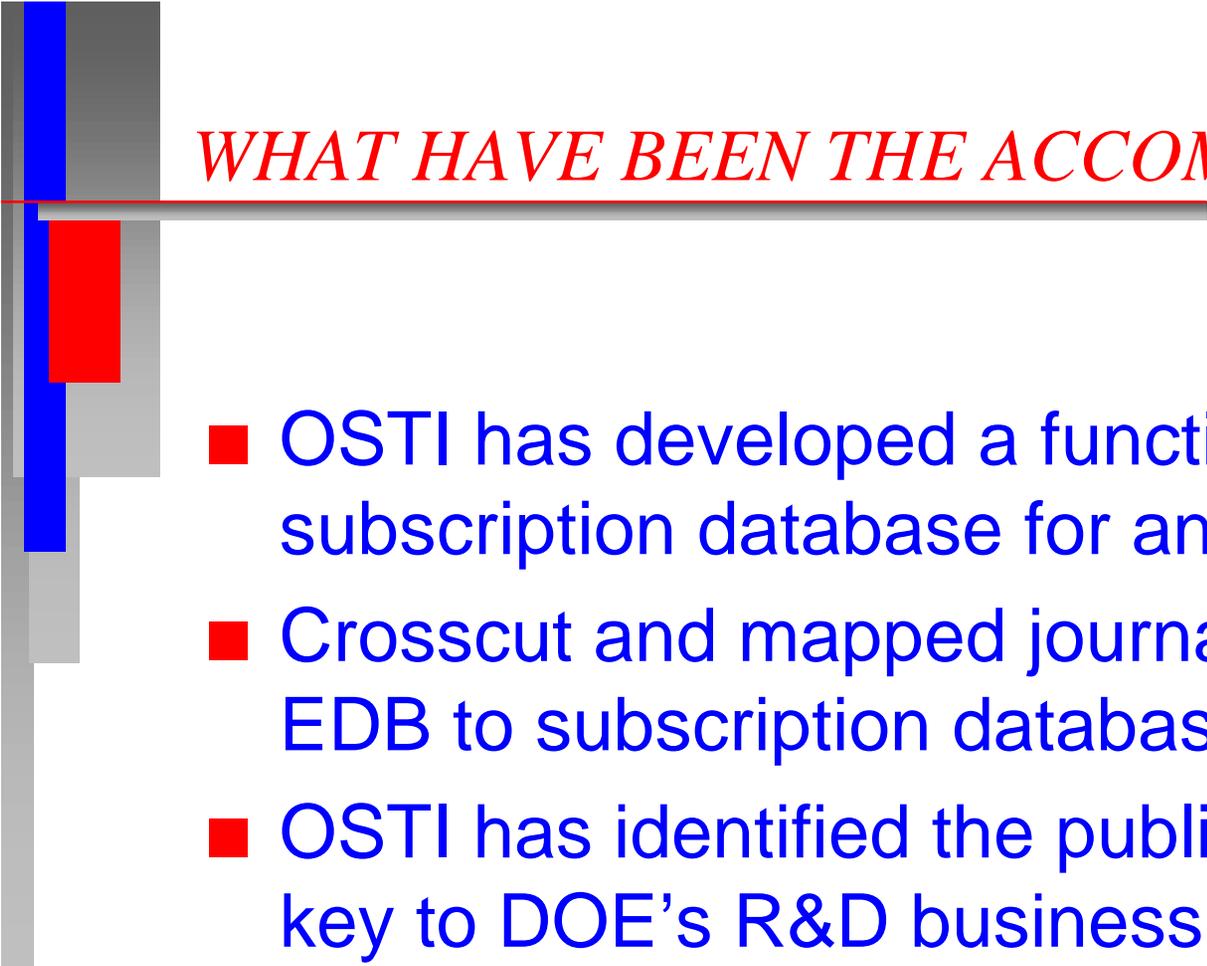
WHAT ABOUT THE OTHER INITIATIVES?

- Federal Consortium to purchase Electronic Journals Government-wide
 - The consortium has adopted the G-2 approach in surveying for key journals and publishers
 - The consortium has adopted the G-2 approach in pursuing umbrella agreements



SOME KEY POINTS TO REMEMBER....

- There are many high quality site specific Electronic Journal initiatives are underway throughout the Department
- We can learn a great deal from the experience of others
- The best negotiating position with publishers may be achieved through DOE and Government-wide collaborations
- This is new territory for publishers -- no standardized model has been established



WHAT HAVE BEEN THE ACCOMPLISHMENTS....?

- OSTI has developed a functional DOE-wide subscription database for analysis purposes
- Crosscut and mapped journal citations in EDB to subscription database
- OSTI has identified the publishers of journals key to DOE's R&D business
- OSTI has interviewed over 45 publishers and providers

WHAT HAVE BEEN THE ACCOMPLISHMENTS....?

- Establishment of the OSTI/ER sponsored HQ Electronic Journal Pilot Project (www.doe.gov/DOEejournals/)
- Negotiated agreements with:
 - American Physical Society (APS) October 97
 - Society for Industrial and Applied Mathematics (SIAM) January 98
 - American Institute for Physics (AIP) March 98

WHAT HAVE BEEN THE ACCOMPLISHMENTS....?

- Established the OSTI/ER Scientific and Technical Information Program Collaboration (G-2 Group)
- Ensured broad DOE-wide representation
- Conducted survey of currently subscribed to Electronic Journals DOE-wide
 - Identified first suite of publishers to contact
 - Contacted and have begun discussions with publishers

NEXT STEPS.....?

- Continue to expand the availability of Electronic Journals from professional societies under the Pilot Project
- Confirm within G-2 the journals and publishers to approach in a priority manner to establish umbrella agreements
- Work with sites under G-2 to utilize the agreements to their benefit
- Explore financial options available for providing access to electronic journals

NEXT STEPS.....?

- Continue to work with the Federal Consortium to insure cross fertilization of ideas and benefits
- Begin to focus on electronic availability of DOE Preprints
- Develop and provide the integrated input, access, delivery tools, and mechanisms needed to deliver and utilize Electronic Journals and Preprints

CUSTOMER FEEDBACK....

- Applaud plan to make on-line versions of the American Physical Society journals available at DOE Headquarters.
- Electronic versions intrinsically much more convenient to use than print copies.
- With more and more back issues on line, , the use of the electronic versions will become even more advantageous.
- Most scientists will switch over to electronic versions as their primary journals become available in this format.

CUSTOMER FEEDBACK....

- Suggestions regarding format :
 - Journals should be directly reachable on the internet using standard World Wide Web browsers, such as Netscape or Microsoft Explorer.
 - The WWW is the mode of use that journal producers are expecting, and it is likely to be the only one they will fully support.

CUSTOMER FEEDBACK....

- Suggestions continued:
 - The Internet is the only means of assuring that all prospective users will be able to access the journals whenever and wherever they need them
 - Access could be controlled by IP address, with possibly a password option for access away from the office