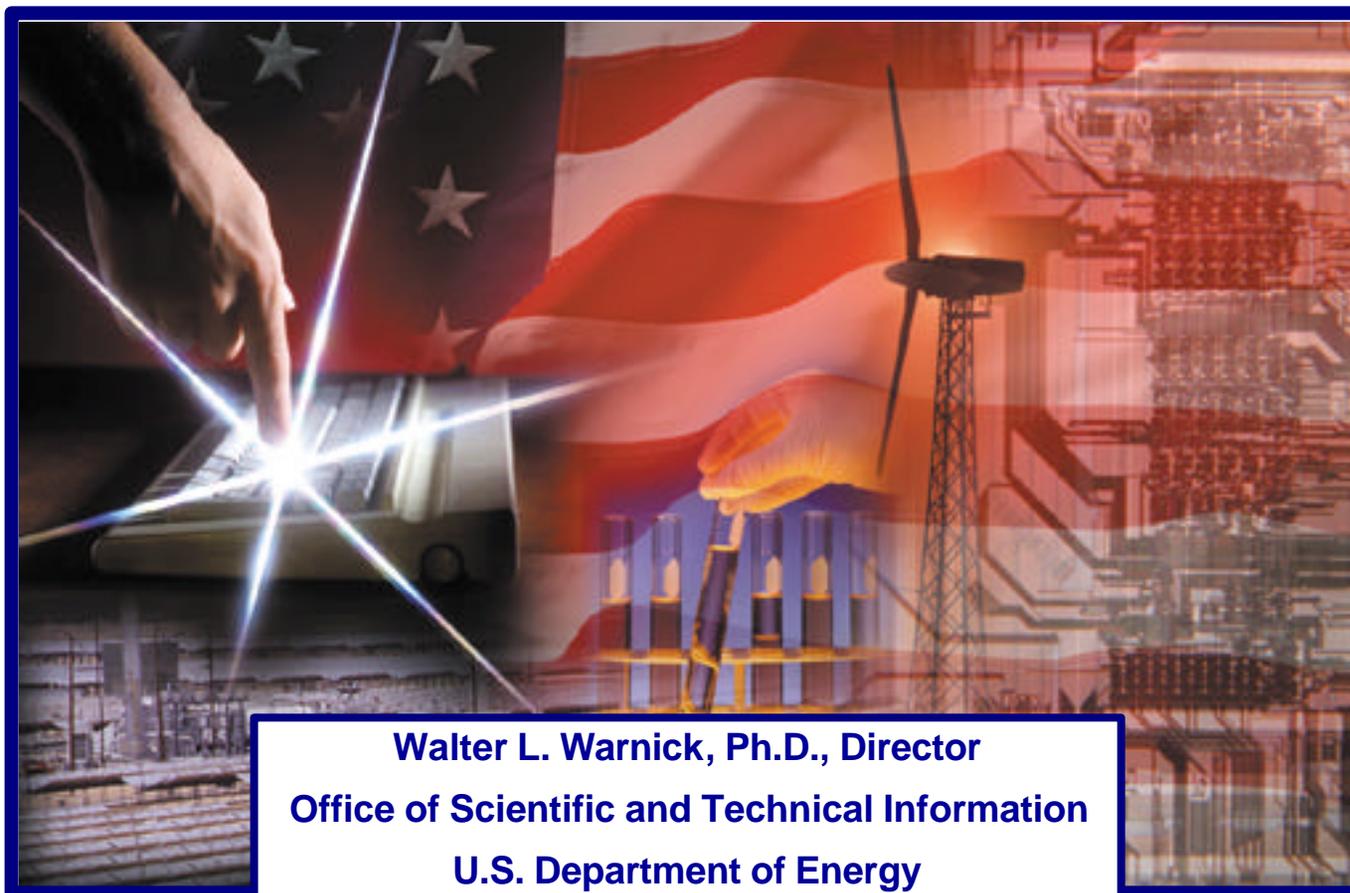




# *A Vision for a Digital Library for the Physical Sciences*



**Walter L. Warnick, Ph.D., Director  
Office of Scientific and Technical Information  
U.S. Department of Energy  
September 27, 2000**



# Workshop Panel



**Alvin Trivelpiece**, Former Director, Oak Ridge National Laboratory

**R. Stephen Berry**, Professor, The University of Chicago

**Derek Winstanley**, Chief, Illinois State Water Survey

**Krishna Rajan**, Professor, Rensselaer Polytechnic Institute

**Martin Blume**, Editor-in-Chief, American Physical Society

**Jose-Marie Griffiths**, CIO and Professor, University of Michigan

**Kirk McDonald**, Professor, Princeton University

**Lee Holcomb**, Chief Information Officer, NASA

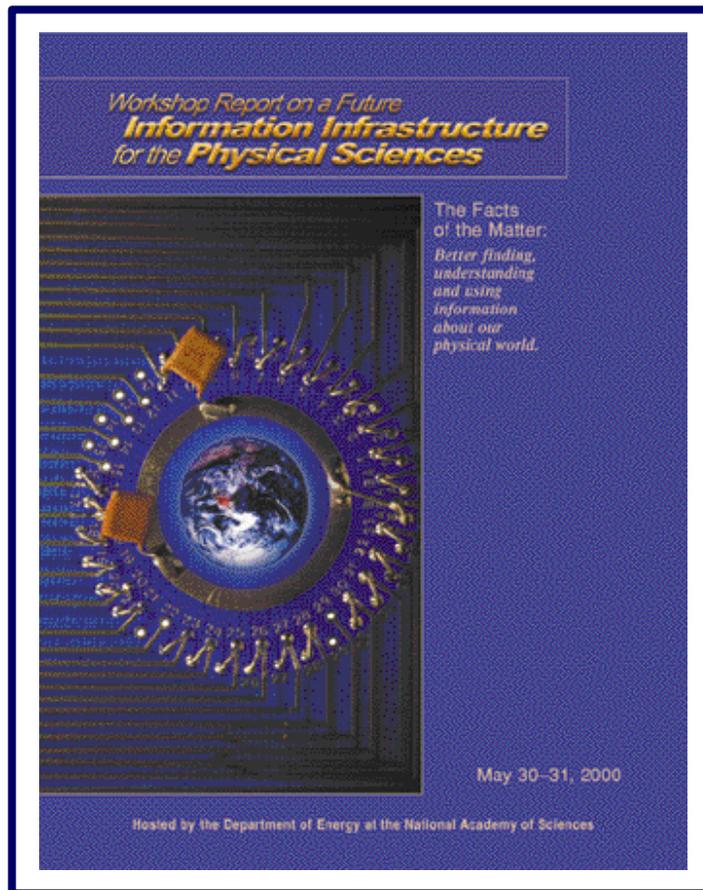
**Kent Smith**, Deputy Director, National Library of Medicine, NIH



# Workshop Report on a Future Information Infrastructure for the Physical Sciences



<http://www.osti.gov/physicalsciences/>



- Workshop Report gives a vision from 70,000 feet
- Next, a strategy for implementation is needed



# Forming a Strategy



- Strategy must be interagency
- But each agency must do that which is consistent with its strengths and mission
  - NSF has carved out education with the National Science, Mathematics, Engineering, and Technology Education Digital Library (NSDL)
  - DOE has embraced content for researchers



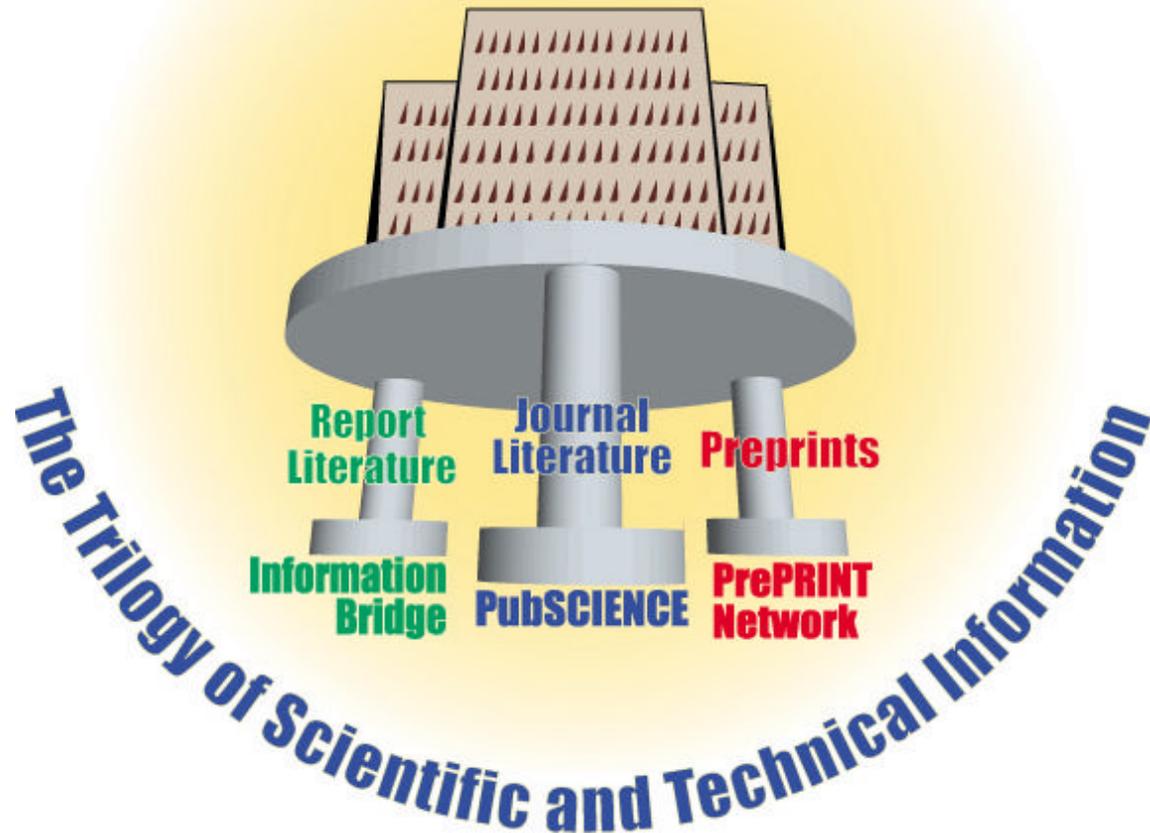
www.doe.gov

# Office of Scientific and Technical Information U.S. Department of Energy



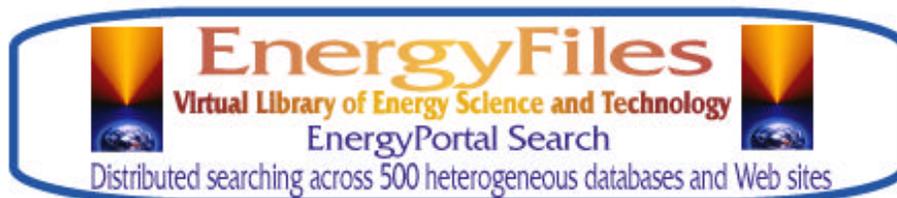
www.osti.gov

## Building Knowledge Assets





# The Warnick Strategy



- OSTI has a building block, with DOE Programs each having building blocks
- The Energy National Library is a building block for the Physical Sciences Library
- Other agencies will bring their own building blocks
- Distributed search tools are the glue that converts the building blocks into a functional whole



# Technical Reports



Security/Disclaimer Notices

- Search the Literature
- About this Site
- What's New
- Disclaimer
- Contacts/Comments

- DOE Home <
- OSTI Home <

product of the DOE  
Office of Scientific  
and Technical  
Information

- August 2000
- The GrayLit Network makes the gray literature of U.S. federal agencies easily accessible over the Internet.
- Gray Literature is that literature which is vitally important yet not commercially available and often difficult to find.
- Enables convenient access by the public to government information

<http://www.osti.gov/graylit>



# Federally Funded Research



**Federal R&D Project Summaries**  
Descriptions, Awards, and Summaries of Federally Funded Research

Find out how your research dollars are being spent

- About
- What's New
- Contacts/Comments
- Disclaimer
- Search R&D

DOE Home  
OSTI Home

product of the DOE  
Office of Scientific and Technical Information

- August 2000
- Allows the researcher to search across the R&D records of the DOE (20,000), NIH (60,000), and NSF (145,000) with access to over 220,000 R&D items in a single search
- The significance rests in a focus on the truly interdisciplinary nature of science discoveries. It is hard enough to stay on top of your area of specialty let alone other disciplines.

<http://www.osti.gov/fedrnd/>



# Key Scientific Content Organizations in the U.S. Government



**CENDI**

**<http://www.dtic.mil/cendi>**

- Commerce
- Energy
- Environmental Protection Agency
- National Aeronautics and Space Administration
- National Libraries of Agriculture, Education, and Medicine
- Defense
- Interior

The NSF's NSDL may be an appropriate addition.

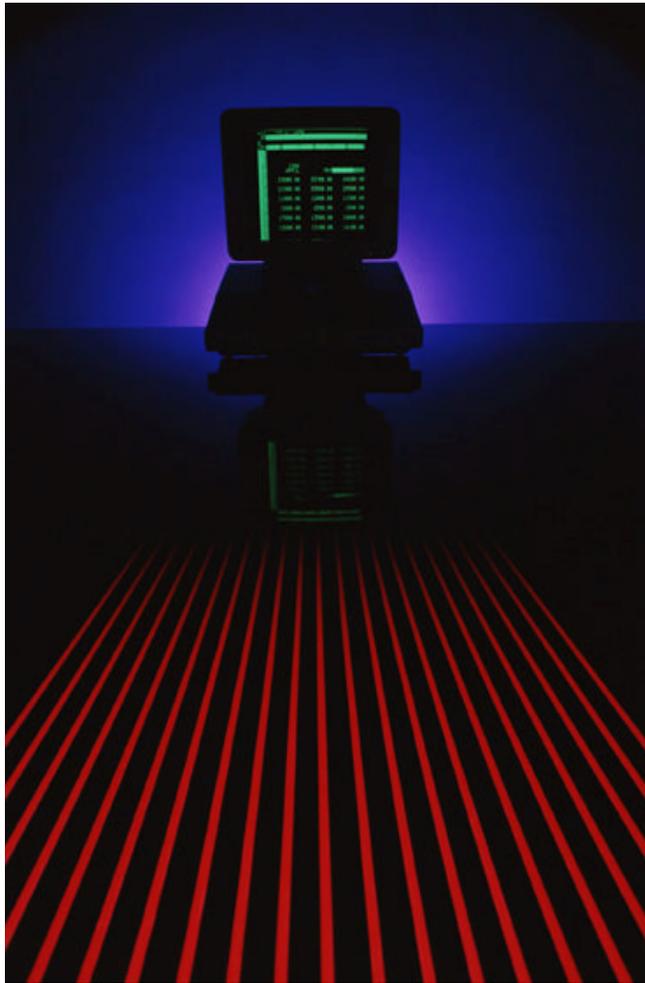


[www.doe.gov](http://www.doe.gov)

# Conclusions



[www.osti.gov](http://www.osti.gov)



- Acknowledging chasm between R&D and real-world deployment
- Commending the vision stated in the Workshop Report
- Calling for the near-term deployment of a geographically dispersed digital library for the physical sciences, starting with the immediate development of an interagency implementation strategy