

# WorldWideScience.org: Bringing Light to Grey



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Office of Scientific and Technical Information

U.S. Department of Energy



# What is “Grey”

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- Wikipedia: “...a body of materials that cannot be found easily through conventional channels such as publishers...”
- “. . . information that is not searchable or accessible through conventional search engines or subject directories and is not generally produced by commercial publishing organisations.” (National Library of Australia)
- Webster’s Dictionary: “*An achromatic colour between the extremes of black and white.*”

# “Between the extremes of black and white”

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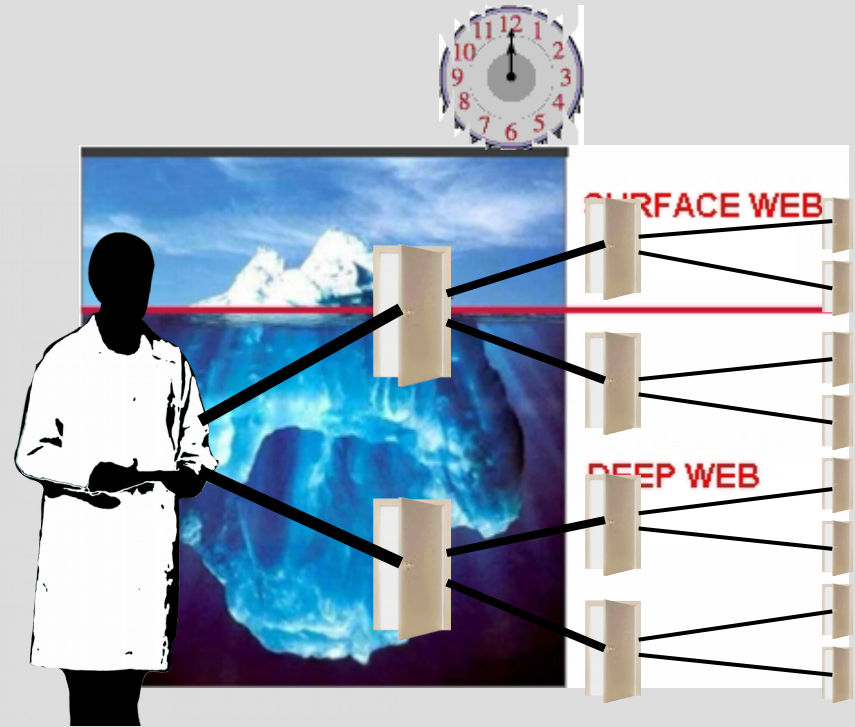


- published journals
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- numeric data sets
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- fora, etc.
- ideas
- concepts
- thought

Grey = Deep

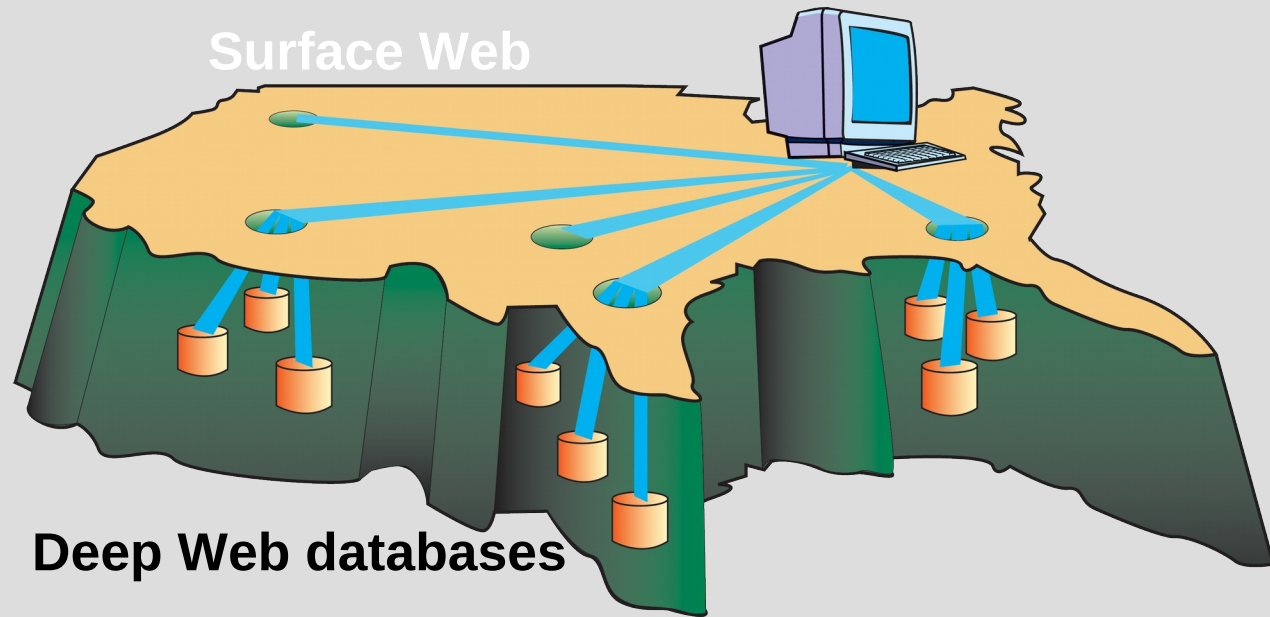
# Two Key Challenges of the “Deep”

2: ~~Time~~ ~~money~~ ~~and~~ ~~delayed~~ ~~know~~ ~~can~~ ~~hurt~~ ~~progress~~ (or, at least, it could help you).



# Overcoming Challenges of the “Deep”

**Federated search** drills down to the deep Web where scientific databases reside



**First Deep Web Search Engine:**

**Science.gov**

# Prominent Deep Web Search Engines

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- Science.gov
- ScienceAccelerator.gov
- E-Print Network
- Science Conference Proceedings
- Federal R&D Project Summaries



**Federal R&D Project Summaries**



# WORLDWIDESCIENCE.ORG

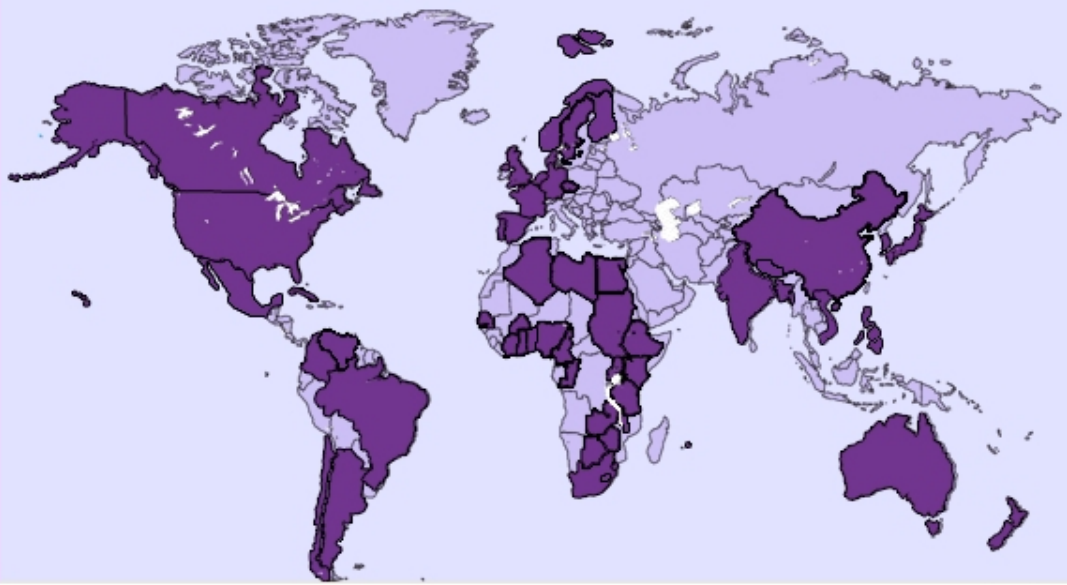
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### INTERACTIVE MAP

Click on country to view participants and visit their web sites

# WorldWideScience.org

## Databases/Portals

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- [Canada Institute for Scientific and Technical Information](#)
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- [OpenSIGLE](#)
- [Philippines Journals Online \(PhilJOL\)](#)
- [Science.gov \(United States\)](#)
- [Scientific Electronic Library Online \(Argentina, Brazil, Chile, Colombia, Cuba, Mexico, Portugal, Spain, Venezuela\)](#)
- [Transactions and Proceedings of the Royal Society of New Zealand 1868-1961 \(New Zealand\)](#)
- [UK PubMed Central \(United Kingdom\)](#)
- [Vascoda \(Germany\)](#)
- [Vietnam Journals Online \(VJOL\)](#)
- [VTT Technical Research Centre of Finland-Publications \(Finland\)](#)
- [VTT Technical Research Centre of Finland-Research \(Finland\)](#)



# WorldWideScience.org History

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- Concept introduced by OSTI Director, Walt Warnick, June 2006, Bethesda, Maryland
- Bilateral U.S.(DOE)/ U.K. (British Library) partnership, January 2007, London



# WorldWideScience.org History Continued

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- Demonstration of first prototype, June 2007, Nancy, France
- Multilateral governance structure, WorldWideScience Alliance, established, June 2008, Seoul
- Common ingredient: International Council for Scientific and Technical Information (ICSTI)



# WorldWideScience.org

## Facts and Figures

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- Searches 49 science databases and portals sponsored by governments and national institutions in 54 countries
- Covers scientific literature from over three-fourths of the world's population
- Includes a vast quantity of science (over 375 million pages), much of which is grey literature



# WORLDWIDESCIENCE.ORG

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  - Wind Speed (49)
  - Blade (41)
  - Wind Farm (27)
  - More...

- ★★★★ Wind turbines structural loads during fault ride-through operation**  
Antonio, Cutululis N.; Daniela, Hansen A.; J., Larsen T.; Sørensen Poul Ejnar; F., lov 2008-01-01  
DEFF Research Database (Denmark)
- ★★★★ Wind energy conversion in wind turbines and its aerodynamic analysis**  
Wang, Y.-n. Sun, C.-s. Li, X.-r. 2008-01-01  
DIANLI KEXUE YU JISHU XUEBAO 2008 VOL 23; NUMB 2, page(s) 2-8 Changsha Ligong Daxue ...  
Electronic Table of Contents (ETOC) (United Kingdom)
- ★★★★ Wind turbines, flicker, and photosensitive epilepsy: characterizing the flashing that may precipitate seizures and optimizing guidelines to prevent them.**  
Hardina, Graham; Hardina, Pamela; Wilkins, Arnold 2008-04-10

## Wikipedia

**Wind turbine**  
A **wind turbine** is a rotating machine which converts the kinetic energy in **wind** into mechanical ...  
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## EurekaAlert!



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**Title:** Mapping of grid faults and grid codes[Wind turbines]

**Creator/Author:** lov, F. [Aalborg Univ., Inst. of Energy Technology (Denmark)]; Hansen, Anca D.; Soerensen, Poul; Cutululis, N.A. [Risoe National Lab. - DTU, Wind Eney Dept., Roskilde (Denmark)]

**Research Org:** Risoe National Lab. - DTU, Roskilde (Denmark). Wind Energy Dept.

**Publication Date:** 2007 Jun 15

**Report Number(s):** RISO-R-1617(EN)

**Resource Relation:** Other Information: PSO-2006; 33 refs.

**Size/Format:** Size: 41 pages

**Language:** English

**Description/Abstract:** The objective of this project is to investigate into the consequences of the new grid connection requirements for the fatigue and extreme loads of wind turbines. The goal is also to clarify and define possible new directions in the certification process of power plant wind turbines, namely wind turbines, which participate actively in the stabilisation of power systems. Practical experience shows that there is a need for such investigations. The grid connection requirements for wind turbines have increased significantly during the last 5-10 years. Especially the requirements for wind turbines to stay connected to the grid during and after voltage sags, imply potential challenges in the design of wind turbines. These requirements pose challenges for the design of both the electrical system and the mechanical structure of wind turbines. An overview over the frequency of grid faults and the grid connection requirements in different relevant countries is done in this report. The most relevant study cases for the quantification of the loads' impact on the wind turbines' lifetime are defined. The goal of this report is to present a mapping of different grid fault types and their frequency in different countries. The report provides also a detailed overview of the Low Voltage Ride-Through Capabilities for wind

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**Authors:** Action Energy (Programme) (United Kingdom)  
**Keywords:** ENERGY EFFICIENCY; ENERGY CONSUMPTION  
**Issue Date:** 2003  
**Publisher:** London (United Kingdom) : Carbon Trust  
**Description:** Title from cover. Six information sheets in pocket attached to inside back cover.  
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**Title:** Cutpoints for mild, moderate and severe pain in patients with osteoarthritis of the hip or knee ready for joint replacement surgery

**Authors:** Kapstad, Heidi  
 Hanestad, Berit R.  
 Langeland, Norvald  
 Rustøen, Tone  
 Stavem, Knut

**Issue Date:** 21-Apr-2008  
**Publisher:** BioMed Central



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**Title:** Clean coal technology: gasification of South African coals  
**Authors:** Engelbrecht, AD  
North, BC  
Hadley, TD  
**Keywords:** Coal  
Gasification  
Fluidised bed  
Combined cycle  
Modelling  
Integrated gasification combined cycle  
Thermogravimetric analysis  
**Issue Date:** Nov-2008  
**Citation:** Engelbrecht, AD, North, BC and Hadley, TD. 2008. Clean coal technology: gasification of South African coals. Science real and relevant: 2nd CSIR Biennial Conference, CSIR International Convention Centre Pretoria, 17&18 November 2008, pp 12

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# Journal of Agriculture and Environment, Vol 8 (2007)

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## Pesticide residues as environmental contaminants in foods in Nepal

*Pramod Koirala, Damodar B. Khadka, Arunananda Mishra*

### Abstract

This paper reviews the occurrence of pesticides in foods in Nepal during 1995-2004. A total of one thousand and thirty four samples of different food commodities were analyzed for detection of organochlorines (DDT, BHC) and organophosphorus (malathion, parathion, methyl parathion) pesticides. Among all samples analysed 12% samples were detected with the residues of pesticides which included Malathion (3.9%), BHC (3.1%), Methyl parathion (2.8%), DDT (1.8%) and Parathion (0.3%). Commodity- wise detection of pesticide residues showed the highest level of contamination in root vegetables (11.9%) followed by leaf vegetables (10.9%). Therefore, there is a threat of pesticide residues in foods and may endanger to public health. Government efforts to control misuse of pesticides is not sufficient, therefore, the concerned stakeholders have the shared responsibility to solve it. There is a good scope of working with appropriate intervention measures in this area for NGOs, INGOs, academic institution to prevent the pesticide pollution in food.

*The Journal of AGRICULTURE AND ENVIRONMENT* Vol. 8, 2007, pp. 96-100

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*Journal of Agriculture and Environment*

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*Koirala, Khadka, Mishra*

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# Australian Digital Theses Program

## Thesis Details

- **Title** Food for thought: consumer perspectives of the environmental impacts of food choices
- **Author** Kriflik, Lynda
- **Institution** University of Wollongong
- **Date** 2004
- **Abstract** There is a paucity of information on how consumers perceive environmental risk as impacting on food supply and the relationship of food choices to this risk. Twenty six participants were recruited in the Illawarra region of New South Wales to be involved in this study, which was conducted over a period of eighteen months. A methodology drawing on critical social science theory was used to explore the participants' understanding of the food system and to document the influence of critical reflection over time on participants' food choices. This approach differs from surveys of consumer opinions in that, after setting the initial agenda, it allows for the participants' concerns to become the focus. For health professionals this provides a rich source of information on people's concerns about the food system and also the priority of these for the individual. Such information is invaluable for the development of collaborative projects that aim to address environmental health risks within the food system from the consumer perspective.
- **Thesis** [01Front.pdf](#) 62.9 Kb  
[02Whole.pdf](#) 586.4 Kb

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- Overcoming scalability issues
- Offering alerts service
- Searching multilingual sources

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陈纯贤

中国科学院遗传学研究所 博士论文 1997

指导老师：朱立煌

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**摘要：** 该论文的研究结果包括三个部分，第一部分是博士论文已获得的研究结果基础上的继续，主要对通过远缘杂交导入小麦基因组中的玉米特异的重复**DNA**序列的功能特性及其在DH3后代的遗传传递进行了分析，为了便于读者了解这些新结果，特在该部分简单叙述了以前取得的有关结论（见2.1.4.1，小字体。）第二部分则是从玉米的随机基因组文库中鉴定了一个新的串联重复**DNA**序列，第三部分是与该实验室的八六三课题“黑麦中的抗小麦白粉病基因Pm20的分离”有关的小麦与水稻基因组比较作图研究的初步结果。



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## ACRF Data Archive

Data collected through the routine operations and scientific field experiments of the Atmospheric Radiation Measurement (ARM) Program and ARM Climate Research Facility (ACRF) are stored at and distributed through the Archive. These data are available to the public **free of charge**. Data can be acquired via the methods described below or by browsing the "instruments", "measurements", and other tabs above and looking for pages that have "[Build an Order](#)" in their right-side navigation.

### Data Access Tools

#### Get routine ARM data



#### Data Browser

Select datastreams, view quality information about the data and order data files with the Data Browser. The "Novice Interface" guides new users through the process, while the "Datastream Interface" is designed for users experienced with ARM data.

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# ICSTI Technical Projects

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- ✓ Numeric Data
- ✓ Multimedia
- ✓ Web 2.0



# Conclusions

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Grey is...

- Global



- Growing



- Good...for science  
medicine  
technology

