



International Atomic Energy Agency

# Knowledge Management Tools in the IAEA

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Workshop on Managing Nuclear Knowledge  
8 November 2004, Trieste, Italy

## What's up

- **Some definitions, principles**
- **Tools for managing knowledge**
- **Dedicated KM initiatives in the IAEA**



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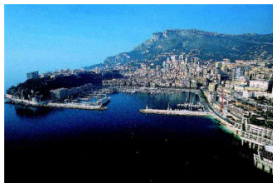
## Pillars of Knowledge Management

- **Data – Information – Knowledge**
- **Discover – Teach – Study**
- **Print – Multi Media – e-Learning**
- **Locate – Collect – Classify**
- **Collect – Add Value – Distribute**

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## Discover - Research in the IAEA



### Marine Environment Laboratory

- Radiometric Lab
- Radioecology Lab
- Marine Environmental Studies Lab



### Isotope Hydrology Laboratory

- Analytical Services
- Reference Materials Distribution and Production



### Seibersdorf Laboratory

- [Physics, Chemistry, Instrumentation Laboratory](#)
- [Agriculture and Biotechnology Laboratory](#)
- [Safeguards Analytical Laboratory](#)

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## Teach – Meetings, Seminars, Conferences



### Conferences and Symposia 2004

International Symposium on Nuclear Oncology - Porto Alegre, Brazil  
 NGD Forum: Nuclear Verification and Nuclear Fuel Cycle - Vienna, Austria  
 Regional Seminar for ECOWAS States on the Non-Proliferation of Nuclear Weapons: The Strengthened Safeguards System - Burkina Faso  
 Regional Seminar for SADC States on the Non-Proliferation of Nuclear Weapons: The Strengthened Safeguards System - Namibia  
 International Conference on Fifty Years of Nuclear Power - the Next Fifty Years - Moscow/Obninsk, Russian Federation  
 International Symposium on Quality Assurance for Analytical Methods in Isotope Hydrology - Vienna, Austria  
 International Conference on Nuclear Knowledge Management: Strategies, Information Management and Human Resource Development - Saclay, France  
 Global Threat Reduction Initiative International Partners' Conference - The Austria Centre, Vienna, Austria  
 Nuclear Fuel Cycle Issues and Challenges - Scientific Forum during the 48th Regular Session of the IAEA General Conference  
 Organizational Meeting of Contracting Parties to the Nuclear Safety Convention - Vienna, Austria  
 International Conference on Topical Issues in Nuclear Installation Safety: Continuous Improvement of Nuclear Safety in a Changing World - Beijing, China  
 International Conference on Isotopes in Environmental Studies - Aquatic Forum 2004 - Monte-Carlo, Monaco  
 20th IAEA Fusion Energy Conference - Vismour, Portugal  
 International Meeting on Reduced Enrichment for Research and Test Reactors (RERTR) - Vienna, Austria  
 Multilateral Verification of Nuclear Non-Proliferation Undertakings: Interregional Seminar on the Agency's Safeguards System - Vienna, Austria  
 International Symposium on Disposal of Low Activity Radioactive Waste - Cordoba, Spain  
 Seminar on Nuclear Science and Technology for Diplomats - Vienna, Austria


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## Teach – Technical Collaboration

The distribution by the Agency's Field of Activity of projects executed in Africa is given below:

> Major Field of Activity [Code]	> Number of Projects
Application of Isotopes and Radiation in Food and Agriculture [5]	428
Radiation Medicine and Health [6]	224
Isotope Hydrology and Applications of Isotopes and Radiation in Industry [8]	178
Nuclear and Radiation Safety and Nuclear Security [9]	139
Nuclear Engineering and Technology [4]	128
General Atomic Energy Development [0]	97
Nuclear and Atomic Physics [1]	76
Fuel Cycle and Waste Management [3]	57
Nuclear Chemistry and Radiochemistry [2]	49
Application of Isotopes and Radiation in Biology and Environmental Studies [7]	33
<b>*** Total Number of Projects ***</b>	<b>1409</b>

Through training courses, expert missions, fellowships, scientific visits, and equipment disbursement, the Technical Cooperation Program provides the necessary skills and equipment to establish sustainable technology in the counterpart country or region.

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## Training and Course Materials by the Department of Nuclear Energy

### Index by Course Subject

The IAEA offers training courses and course materials on many nuclear related subjects. This section of the web site tries to give an overview of the current offers.

#### Nuclear Knowledge Preservation and Management

- [IAEA Library's Information Resources and their Use](#)
- [INIS Training via Distance Learning](#)  
*Input preparation for the INIS Database*
- [How to use the INIS Bibliographic Database](#)  
*Retrieval of information from the INIS Database in the Internet and on CD-ROM*
- [INIS Training Seminar](#)  
*Input preparation for the INIS Database*
- [INIS Basic Training course](#)  
*Retrieval of information from the INIS Database*

#### Reactor Technology: basic, R&D and Applications

- [Nuclear Engineering with QA/QC Approach](#)
- [Advances in Gas-Cooled Reactor Technology](#)
- [Nuclear Desalination Technology and Economics](#)  
*Desalination technologies, coupling of nuclear reactors with desalination systems, economic evaluation methods for nuclear desalination, in particular, the use of the IAEA software "Desalination Economic Evaluation Programme" (DEEP).*
- [Nuclear Seawater Desalination](#)  
*Desalination technologies, coupling of nuclear reactors with desalination systems, economic evaluation methods for nuclear desalination, in particular, the use of the IAEA software "Desalination Economic Evaluation Programme" (DEEP).*
- [Nuclear Power Plant Simulators for Education](#)  
*General characteristics of various water-cooled reactor types in operating and accident conditions.*
- [Technology and Applications of Accelerator Driven Systems](#)  
*R&D activities in the area of ADS for energy production and transmutation.*

#### Nuclear Fuel

- [WWER Fuel Design, Fabrication, Performance and Back-End](#)  
*Justification of features included in the present fuel and control material design*
- [Uranium Geology](#)



## Study – Standards, Technical Documents

### Safety Fundamentals

#### Published Safety Standards

##### The Safety of Nuclear Installations

Safety Series No. 110  
1993, English, [Full Text](#), (File Size: 1443 KB). 11.50 Euro. Date of Issue: 19 July 1993.  
This publication is also available in [French](#), [Russian](#), [Spanish](#).

##### Radiation Protection and the Safety of Radiation Sources: A Safety Fundamental (1996) Jointly Sponsored by FAO, ILO, OECD/NEA, PAHO, WHO

Safety Series No. 120  
1996, English, [Full Text](#), (File Size: 1237 KB). 11.50 Euro. Date of Issue: 23 February 1996.

##### Principles of Radioactive Waste Management Safety Fundamentals

Safety Series No. 111-F  
1995, English, [Full Text](#), (File Size: 1244 KB). 11.50 Euro. Date of Issue: 17 September 1995.  
This publication is also available in [Chinese](#), [French](#), [Russian](#), [Spanish](#).

#### Draft Safety Standards

Objective and Principles Governing the IAEA Safety Standards  
[Draft: DPP](#)

For further information please contact [A.Karbassioun](#)



# Study – Database Interrogation

**Country Files**

Country:

Subject:

- Contributions
- UN Offices
- The World Factbook
- Energy & Economy
- Press Review
- IAEA Bulletins
- Map
- Nuclear Infrastructure**
- Address Book
- Governmental Department
- Atomic Energy Commission

*New Navigation:  
Please click on the icon to view the subcategories of a topic; click on the topic name to view its description.*

Select a Country:  [Home](#) [Country](#)

(\* Names of States that are not members of the IAEA are preceded by an asterisk.)

**United Kingdom of Great Britain and Northern Ireland**

- ▶ [Travel](#)
- ▶ [About](#)
- ▶ **[Nuclear Infrastructure](#)**
- ▶ [Activities](#)
- ▶ [Board](#)

[Address Book](#) View addresses for a wide variety of nuclear organizations and institutions.

[Facilities](#) View details of nuclear power reactors, nuclear research reactors and nuclear fuel cycle facilities.

[Organization](#) View the key organizations within this country.

[Nuclear Power Profile](#) View this Division of Nuclear Power document. Information on the development and present status of nuclear activities.

[Radioactive Waste](#) View information on radioactive waste inventories.

[INIS Database](#) Access INIS Database. Contains over 2 million bibliographic references and abstracts, dating back to 1970, about the peaceful uses of nuclear science and technology.

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*Information catalogue*  
of Scientific and Technical Databases

**Browse Catalogue**

- By Subject ▶
- By IAEA Programme ▶
- By Name ▶
- By Acronym ▶
- By Dept./Division ▶

OASIS - [Home](#) - [Administration](#) - [Feedback](#) - [About](#)

Quick Search

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**Browse by INIS Subject Scheme**

[Home](#)

The following subject classification scheme is based on the [INIS/ETDE Subject Categories and Scope Descriptions \(June 2002\)](#).

- [Applied Life Sciences \(6 Databases\)](#)**
  - [Authorised Food Irradiation Facilities \(none\)](#)
  - [Clearances of Irradiated Food \(none\)](#)
  - [FAO/IAEA List of Mutant Varieties \(MVD\)](#)
  - [International Database on Insect Disinfestation and Sterilization \(IDIDAS\)](#)
  - [International Food Contaminant and Residue Information System \(INFOCRIS\)](#)
  - [Sistema Internacional sobre Contaminantes y Residuos en Alimentos \(SICRA\)](#)
- [Atomic and Molecular Physics \(2 Databases\)](#)**
  - [ALADDIN - A Labelled Atomic Data Interface \(ALADDIN\)](#)
  - [Atomic and Molecular Bibliographic Data System \(AMB DAS\)](#)
- [Energy Planning, Policy and Economy \(2 Databases\)](#)**
  - [Energy and Economic Data Bank \(EEDB\)](#)
  - [Reference Technology Database \(RTDB\)](#)
- [Engineering \(4 Databases\)](#)**
  - [Events Occurring During the Transport of Radioactive Material \(EVTRAM\)](#)
  - [National Competent Authorities Approval Certificates for Package Design, Special Form Material and Shipment of Radioactive Material \(PACKTRAM\)](#)
  - [National Competent Authorities responsible for Approvals and Authorizations in respect of the Safe Transport of Radioactive Material \(NCAL\)](#)
  - [Shipments of Radioactive Material \(SHIPTRAM\)](#)
- [Environmental Sciences \(6 Databases\)](#)**
  - [Directory of Radioactively Contaminated Sites \(DRCS\)](#)
  - [Discharges to the Atmosphere and the Aquatic Environment \(DIRATA\)](#)
  - [Global Marine Radioactivity Database \(GLOMARD\)](#)

**IAEA**

## Dedicated KM Initiatives

- Workshops, Seminars, Meetings
- Educational Networks
- Knowledge Preservation Initiatives
- Access Facilitation

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## Workshops, Seminars, Meetings

### IAEA Meetings on Nuclear Knowledge Management

#### upcoming meetings:

[Workshop on Managing Nuclear Knowledge](#)  
8-12 November 2004, Trieste, Italy.

#### recent meetings:

[Technical Meeting to Develop a Nuclear Knowledge Portal for the Integration of Existing Nu Agency and in Member States](#).  
04-07 October 2004, Vienna, Austria [report in PDF, 7 pages, 75KB]

[International Conference on Nuclear Knowledge Management 2004 - Strategies, Information Development](#)  
7-10 September 2004, Saclay, France.

[Technical Meeting on Planning Support Activities to the World Nuclear University](#).  
10-11 June 2004, Vienna, Austria [report in PDF, 17 pages, 247KB]

[First Meeting of the Coordination Committee on the new Asian Network for Education in Nu](#)  
23-27 February 2004, Kuala Lumpur, Malaysia. [report in PDF, 37 pages, 292KB]

[Scientific Forum during the IAEA General Conference 2002 - Session on Managing Nuclear](#)  
17-18 September 2002, Vienna, Austria.

[Meeting of Senior Officials on Managing Nuclear Knowledge](#)  
17-19 June 2002, Vienna, Austria.

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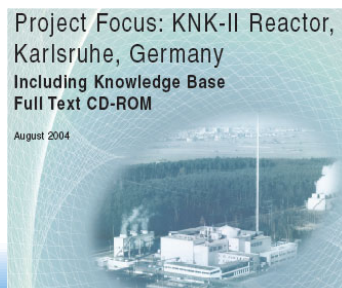


## Educational Networks

- Asian Network for Education in Nuclear Technology (ANENT)
- World Nuclear University

## Knowledge Preservation Initiatives

- Digital preservation of historic documents (IAEA records, films)
- Fast Reactor Knowledge Preservation



## Access Facilitation

- **Nuclear Knowledge Portal**
  - internal and external information sources
  - archival of transient information (Internet)
  - automatic classification
- **Nuclear Knowledge Desk**
  - the IAEA's knowledge broker
- **Find-an-Expert Facility**
  - author information from bibliographic records

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