



News from the INIS and Nuclear Knowledge Management Section  
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## INIS and International Cooperation in Nuclear Information

The International Nuclear Information System, the world's largest custodian of published information on the peaceful uses of nuclear science and technology, was from its beginning founded on international cooperation. Today, international cooperation remains a hallmark of INIS.

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## INLN: Facilitating Exchange and Building Partnerships



*Photo: IAEA*

The INLN, which has grown to 30 participants in 2009, acts as a facilitator of exchange, creating a setting in which relationships for the common good can be built. It currently faces the challenge of drawing the roadmap for a nuclear information infrastructure.

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## Free Online Access to INIS

Free, open and unrestricted access to the INIS database is now available to Internet users around the world. This initiative makes nuclear knowledge readily available worldwide.

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**INIS and Nuclear Knowledge  
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## To our Readers

Cooperation in nuclear information and knowledge management is high on the agenda. The IAEA's nuclear information and knowledge management services alone coordinate three international networks: The Asian Network for Education in Nuclear Technology (ANENT), the International Nuclear Information System (INIS) and the International Nuclear Libraries Network (INLN). In this issue, centred on cooperation and partnerships in nuclear information, we focus specifically on two of these networks, INIS and the INLN.

I hope you have a stimulating read.

Ruth Hahn-Weinert

# INIS and International Cooperation in Nuclear Information

**With over three million bibliographic records and 200 000 full-text documents available online, the International Nuclear Information System (INIS) represents the world's largest custodian of published information on the peaceful uses of nuclear science and technology. Founded from its beginning on international cooperation, INIS remains today committed to this fundamental principle.**

From its beginning in 1970, when it was established in response to the IAEA's mandate "to foster the exchange of scientific and technical information on the peaceful uses of atomic energy", international cooperation is one of the hallmarks of INIS. It is operated and managed by the IAEA in collaboration with 121 Member States and 23 international organizations. Thanks to this cooperation, last year 57 000 new records were added to the INIS database by Member States and international organizations. Another 66 000 were added by the INIS Secretariat, bringing to 123 000 the total number of new records made available to the INIS community in 2008. Major Member States contributing to the INIS Database, sorted by number of records submitted, are: the United States of America, Germany, Japan, France, the Russian Federation, Brazil, the Republic of Korea, China, Poland, Ukraine, and India. International organizations like the OECD Nuclear Energy Agency (NEA) and the Joint Institute for Nuclear Research (JINR) in Russia are also major contributors.

## *57 000 new records added to INIS in 2008 by Member States and international organizations*

INIS has a special partnership with the Energy Technology Data Exchange (ETDE), operated by the US Department of Energy (OSTI). INIS delivers all of its data to ETDE, generating over 65% of ETDE records.

In addition, INIS successfully cooperates with the International Council for Scientific and Technical Information (ICSTI), based in Paris, as well as with the International Centre for Scientific and Technical Information (ICSTI), which is comprised of 22 Member States and is based in Moscow.

*From its beginning,  
international cooperation  
is one of the hallmarks of  
INIS*

As recommended by the *34th Consultative Meeting of the INIS Liaison Officers* held in November 2008, and after a successful ten country pilot project, users were given and now enjoy unrestricted, free web access to the database. This major achievement was launched in April 2009 and represents a shift towards universal access to this unique repository of

nuclear information. It is expected that free, open access will further enhance the use of INIS based nuclear information and documentation for peaceful purposes and foster nuclear scientists' research efforts around the world.

*Free, open access will  
enhance the use of INIS  
based nuclear information*

To better further this objective, INIS is determined to continue providing to the world a unique set of unconventional literature, also known as unpublished or "grey" literature, in full text.

First results and statistics after introducing free access are encouraging. During the first month of open access, there were over 5 000 unique visitors making 7 000 searches, opening over 50 000 pages and downloading around 4 000 full-text documents. It is expected that these statistics will continue to grow.

**Contact:** Mr. Dobrica Savić

## INIS in Figures

**INIS Members:** 144

*States:* 121

*International organizations :* 23

**Database records:** Over 3 million

**Full-text documents available  
online:** 200 000

**Number of records added annually:** 120 000

**Annual website visits:** 100 000

**Annual website hits :** over 2 million

**Annual NCL downloads:** 50 000

# INLN: Facilitating Exchange and Building Partnerships

The International Nuclear Libraries Network (INLN) has grown from five members in 2005 to thirty participants in 2009.

**Key success factors for a network are efficiency and effectiveness**

What accounts for this increase in membership?

As in any other organization, key success factors for a network

are efficiency and effectiveness. A network is efficient if it achieves the desired outcome. It is effective if, while doing so, it affords greater inducements than it requires efforts from members.

**Participation in the INLN offers substantial benefits**

Pooling the collections of many institutions creates an information resource of a size that cannot be achieved in isolation and all partners reap a share of the value being constantly added to the information pool. Thus, responsiveness and flexibility in satisfying client needs is increased without creating additional costs to the parent organization.

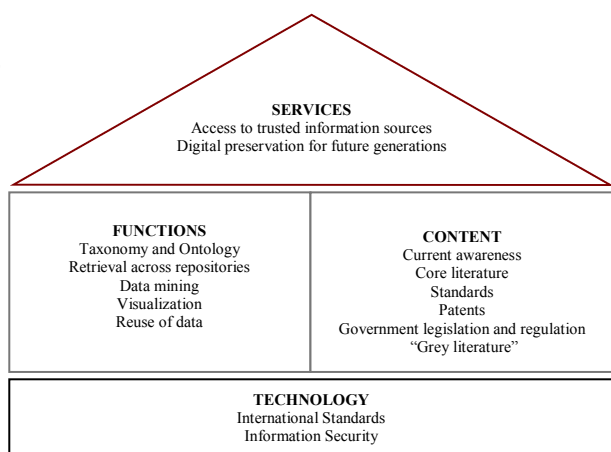
Such economic considerations are embedded in strong social relations: the INLN values its members for what they bring to the network, irrespective of institutional size or status. It is in this atmosphere of trust that information is exchanged freely, best practices are shared and policies and strategies are established.

Ultimately, the INLN acts as a facilitator of exchange, creating a setting in which relationships for the common good can be built.

**Challenges ahead**

Following its initial success, the INLN's upcoming challenge is to not lose momentum and to draw the roadmap for a nuclear information infrastructure.

To ensure



**Nuclear Information Infrastructure**

sure the management, access, and security of information as well as the interoperability and openness of an efficient

information infrastructure, commonly accepted IT conventions and standards must be applied. These standards must be compatible with existing information technologies and flexible enough to meet future user needs at an affordable cost.



INLN representatives discussing web promotion tools (Photo: T. Kalapurackal/IAEA)

**Numerous Functions**

In the digital world, search technologies such as taxonomy and ontology are needed. And user expectations are high: Web-related functions such as integration of research and retrieval techniques across information repositories, data mining and analysis tools to discover new knowledge, tools for visualizing complex datasets and the re-use of data and automated meta-data extraction play an increasingly important role.

*Responsiveness and flexibility in satisfying client needs is increased without additional costs*

**Inclusive content**

The entire range of information needed to acquire a comprehensive understanding of the obligations and commitments involved in the introduction, operation, and decommissioning of a nuclear power programme has to be covered. To this end, all types of information are needed: Current awareness and core literature, international standards and patents, government legislation and regulations, best practice guidelines and all other forms of "grey" literature.

If IT is the foundation of the nuclear information infrastructure and functions and content act as the pillars, then services are the roof that binds everything together: Providing access to trusted information sources and preserving this information for future generations.

**The key question is: Who can provide this information?**

There are three options: A distributed network of trusted data repositories, a centralized repository or a third party provider. In all three cases, ownership and access have to be clearly defined.

**Contact:** Ms. Ruth Hahn-Weinert



# News from INIS & NKM

## One Day National Seminar Promotes Easy Access to Nuclear Information in Uzbekistan

Participants in the National INIS Seminar in Uzbekistan were encouraged to make use of the vast, readily accessible pool of nuclear information offered by INIS. Interest among attendees was high in accessing INIS information resources, as well as contributing to them.

The one day Seminar, held on 25 March 2009, was hosted by the Tashkent Institute of Post-graduate Medical Education, in cooperation with the Institute of Nuclear Physics, as part of the IAEA Technical Cooperation project *Upgrading the National INIS Centre of Uzbekistan*.

Ms. Taghrid Atieh, Leader of the Capacity Building and Liaison Group at the INIS & NKM Section, presented INIS, its benefits and demonstrated the features of the INIS Online Database. She promoted the benefits of establishing the national nuclear information network, encouraging participants to take advantage of the services offered by the national INIS centre at the Institute of Nuclear Physics. Ms. Atieh also highlighted the upcoming free access to the INIS online database and the advantages of contributing to the national nuclear database.

Other IAEA scientific and technical information resources, and the advantages offered by NUCLEUS, the

IAEA's gateway to technical, scientific and regulatory information resources were also presented.

Ms. Makhtuba Kadirova, the national INIS Liaison Officer, along with other staff promoted the services offered by the National INIS Center of Uzbekistan and presented project achievements. Preparation efforts to actively participate in the International Nuclear Library Network (INLN) were also presented.



Participants at the National INIS Seminar in Tashkent, Uzbekistan (Photo: Uzbekistan INIS Centre)

The Seminar was opened by Prof. Umar Salikhbaev (Director, Institute of Nuclear Physics), Prof. Damir Zaredinov (Chief Radiologist, Ministry of Health), Prof. Victoria Garib (Vice-Rector for International Collaboration, Head of Immunology Department, Tashkent Institute of Post-Graduate Medical Education) and Dr. Nadira Muratova, (Senior lecturer, Department of Innovative Technologies and Financial management, Assistant of Rector, Tashkent Institute of Post-Graduate Medical Education).

Over 40 participants attended the Seminar from 20 institutions covering different fields of activities; medical, mining, agriculture, geology, and fundamental sciences.

**Contact:** Ms. Taghrid Atieh

## Free Online Access to INIS

We are pleased to announce that on 3 April 2009, access to the INIS database was opened to all Internet users around the world. Free, open and unrestricted access is available from the INIS Homepage, or directly from the following link: <http://inisdb2.iaea.org/>

This initiative provides easy access to reliable nuclear information on the peaceful uses of nuclear science and technology, including nonconventional literature, and makes nuclear knowledge readily available worldwide.

Established in 1970, INIS represents the world's largest database of scientific and technical literature on a wide range of subjects from nuclear engineering, safeguards and non-proliferation to applications in agriculture, health and industry.



Photo: IAEA

Screenshot of the INIS online database

Currently, the INIS Database contains over 3 million bibliographic records and almost 200 000 full-text non-conventional documents, consisting of scientific and technical reports and other non copyrighted information.

**Contact:** Ms. Taghrid Atieh

## Upcoming Event: INIS Training Seminar 2009

The INIS Secretariat will conduct an INIS Training Seminar from 23 to 27 November 2009 at the IAEA Headquarters in Vienna, Austria. The Seminar is addressed to staff at the national INIS centres who are actively involved in all aspects of INIS operations.

The Seminar will focus on INIS input preparation, utilization of INIS products and services and on promoting the system. It will provide advanced training and is therefore not targeted to beginners.

**Contact:** Ms. Taghrid Atieh

## Practical Arrangements on ANENT signed between the IAEA and KAERI



*Deputy Director General in the Department of Nuclear Energy, Yury Sokolov (right), speaks with Myung Seung Yang, President of KAERI, after the signing ceremony (Photo: Dean Calma/IAEA)*

in Nuclear Technology (ANENT).

ANENT is a regional partnership for nuclear knowledge management and capacity building in the peaceful uses of nuclear science and technology in Asia and the Pacific region. Since it was established in 2004, among the current 16 member countries the Republic of Korea has played a leading role in developing the ANENT Web-portal and Cyber Platform for information exchange and distance learning ([www.anent-iaea.org](http://www.anent-iaea.org)). The signed agreement will enhance mutual cooperation and expand the access to ANENT's advanced distance learning portal to

include Latin American and African countries.

**Contact:** Ms. Keiko Hanamitsu

On 3 April 2009, Mr. Sokolov, DDG-NE and Mr. Yang, President of the Korea Atomic Energy Research Institute (KAERI) signed an agreement to jointly maintain and operate the web system of the Asian Network for Education

## Welcome Zimbabwe

Zimbabwe joined the International Nuclear Information System (INIS) in February 2009.

We are pleased to welcome Zimbabwe as the 120th INIS Member State.

The national INIS Centre for Zimbabwe is located within the Ministry of Energy and Power Development, in Harare.

Mr. L.S. Gamba has been appointed INIS Liaison Officer and Mr. Justice Chipuru has been appointed Alternate INIS Liaison Officer.

**Contact:** Ms. Taghrid Atieh

## Welcome Côte d'Ivoire

The Republic of Côte d'Ivoire joined the International Nuclear Information System (INIS) in May 2009.

We are pleased to welcome Côte d'Ivoire as the 121st INIS Member State, bringing the total number of INIS Members to 144.

The national INIS Centre for Côte d'Ivoire is located within the Université d'Abidjan Cocody.

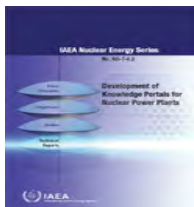
Dr Aka Antonin Koua has been appointed INIS Liaison Officer and Dr Tepko Paul-Amewe Dali has been appointed Alternate INIS Liaison Officer.

**Contact:** Ms. Taghrid Atieh

## Recent Publications

### Development of Knowledge Portals for Nuclear Power Plants

IAEA Nuclear Energy Series  
No. NG-T-6.2, March 2009



This publication supports earlier IAEA publications on knowledge management in proposing guidelines for the development of a knowledge portal for nuclear power plants (NPPs) and covers the main design principles and the typical content of such a knowledge portal.

## IAEA Library Update



Vienna Daughter's Day 2009 at the IAEA Library

Photo: IAEA

Pooling information and providing access to all those who need it is at the heart of the Library's activities.

The Library provides access to over 8 km of publications and the largest part by far of its information is delivered in electronic format.

In 2008, the library space was redesigned. Much praise was received for this significant effort. As one of our users declared: "The Library is really ideal for reading, searching, thinking, relaxing".

The Library provides a space combining

the best of two worlds: The "new" world of digital information and the "old world" of printed books and journals ... and it is a place for scientific and cultural exchange:

For the Department of Nuclear Energy, the Library hosted a lecture on CERN's Large Hadron Collider (LHC), attracting over 100 participants; for the Division of Human Health, a training workshop; for the daughters of staff members, an event bringing science closer to girls.

The future lies in the hands of these girls and their male counterparts. Making informed use of information will be one of the cornerstones of their success.



LHC Lecturer  
Prof. Yuldashev

Photo: IAEA

**Contact:** Ms. Ruth Hahn-Weinert

## 2009 Meetings

Meeting Title	Date	Location	Country	Scientific Secretary
Technical Meeting on National Approaches and Strategies for Nuclear Knowledge Management	15-19 June 2009	IAEA, Vienna	Austria	Z. Pasztory M. Saïdy
School of Nuclear Knowledge Management	28 Sep. - 2 Oct. 2009	ICTP, Trieste	Italy	M. Saïdy A. Kosilov
Technical Meeting on Archiving of Web-based Nuclear Information – NuArch Project	5-9 October 2009	IAEA, Vienna	Austria	Y. Yanev A. Pryakhin
Technical Meeting on Web-based Nuclear Power Industry Handbook	12-16 October 2009	IAEA, Vienna	Austria	A. Pryakhin
12th INIS/ETDE Joint Technical Committee Meeting	21-22 October 2009	IAEA, Vienna	Austria	D. Savic
Technical Meeting on the Asian Network for Education in Nuclear Technology (ANENT)	9-13 November 2009	TBD	TBD	Y. Yanev K. Hanamitsu
INIS Training Seminar	23-27 Nov. 2009	IAEA, Vienna	Austria	T. Atieh
Technical Meeting on Process Oriented Knowledge Management for NPPs in Operation and Construction Phases	November 2009	TBD	TBD	Z. Pasztory M. Saïdy
Technical Meeting on the Development of Curricula in Nuclear Science and Technology	7-11 December 2009	IAEA, Vienna	Austria	Y. Yanev M. Saïdy



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