



News from the Nuclear Information Section

International Nuclear Information System (INIS), IAEA Library & SDG

No. 15, December 2013

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To our Readers



Well, here we are at the end of 2013. This presents an opportune time to review some of our accomplishments, but more importantly to draw some lessons and reflect upon what we learned this year. So let's review some of the lessons learned at the Nuclear Information Section (NIS).

1. Change and change again! The only constant in our lives and our work is change. People change, work procedures change, and customer demands and expectations change. What was just yesterday a perfect solution, product or service, is today just a historical artefact. If we do not instigate constant innovation and modernization, we will become museum custodians, instead of a leading avant-garde centre in the area of information and documentation. For NIS this means organizational change, the adoption of new technology, and the introduction of new information solutions.

2. The Web is the master! We are not judged so much anymore by how well we do things, but how well we present those achievements to others – and the main medium for that is the web. NIS dramatically improved its presence on the web by offering its collection of documents and information through the most powerful search tool currently available – Google Search Appliance. User satisfaction followed.

3. Now means right now! A major lesson for anyone working in information support services is that people want everything now. All requests, emails and demands need to be taken care of immediately. A lesson from that is also a requirement for immediate access to complete information and the full-text of documents. Metadata is nice to have, but access to actual documents is becoming a must.

4. I want it my way! We live in a culture of customers who want everything customized to their taste and to their demands. The "My INIS" feature added to the INIS Collection Search, and a highly customized ICS interface offer such possibilities, not only regarding the language, but also regarding personalized functionality.

5. Stop hiding and become visible! The age of

IAEA General Conference and INIS



The 57th annual session of the IAEA General Conference was held from 16–20 September 2013. More than 3,000 delegates from 159 IAEA Member States, international organizations, NGO's and the media attended the event held in Vienna. The Resolution devoted to strengthening the Agency's activities related to nuclear science, technology and applications, encourages the Agency to continue gathering data and information and making them available to Member States through the International Nuclear Information System (INIS). [Read more](#)

Interview with the Head of NIS



During the 57th IAEA General Conference held in Vienna from 16–20 September 2013, Dobrica Savić, Head of the Nuclear Information Section (NIS) was asked to comment on the current status of nuclear information. He offered his view on the requirements of today's nuclear information users, and the improvements made in accessing nuclear information. In addition to a brief historical overview of changes made during the last few years, special emphasis was placed on the latest activities of the International Nuclear Information System (INIS) and future activities in improving user access to nuclear information. [Read more](#)

IAEA Catalogue of Services



INIS has been included in the recently published *IAEA Catalogue of Services for Nuclear Infrastructure Development*. The objective of the catalogue is to help Member States identify available IAEA services for national organizations at different stages of the development, or expansion of a nuclear power programme, and request appropriate IAEA assistance. [Read more](#)

INIS Training Seminar



The INIS Secretariat organized a one-week training seminar from 7–11 October 2013, at the IAEA headquarters in Vienna, Austria. Participants from 18 INIS Member States attended the seminar. [Read more](#)

Future of e-learning in NIS



NIS has started an e-learning solutions project (the NIS Training Series) in an effort to rapidly expand the quality and volume of its training activities. This project focuses on e-training activities related to the use of tools currently employed at INIS and the IAEA Library. [Read more](#)

INIS Regional Cooperation Meeting in Moscow



In cooperation with the National Research Nuclear University NRNU MEPhI, the Russian INIS Centre, and the INIS Secretariat, a meeting on the *Role of the International Nuclear Information System (INIS) in Supporting Nuclear Education and Industry: Regional Cooperation and Knowledge Preservation* was held in Moscow from 22–24 October. Over 40 participants from nuclear research institutes and universities, along with representatives from the Commonwealth of Independent States, attended this meeting. [Read more](#)

Cooperation among INIS Members



In the spirit of cooperation among INIS Members and the INIS Secretariat, the National INIS Centre of France hosted a training session for a staff member from the Joint Research Centre of the European Commission. [Read](#)

high dynamics and floods of information requires dynamic staff who are able to promote their work and their achievements, and to listen and to learn at every opportunity. Attending conferences, meetings and other gatherings offers visibility but it requires thoughtful preparation and giving presentations and lectures, writing articles, and preparing posters. We need active participation.

6. Aggregate or evaporate! Standalone databases or repositories are necessary but they need to be aggregated in order to provide easier access and better search results. ICS has managed to incorporate the INIS and Library databases, the meetings on nuclear energy database, and the NUCLEUS catalogue (soon to be introduced) into a single search user interface. Due to multiple information resources available at various locations, customers require a single access point that allows them to search all locations with a single query.

7. Being social is no longer an option. Social media channels are becoming a dominant means of influencing and keeping in contact with customers. Besides marketing, social media should be used as a means to connect with customers and obtain feedback on information services and products. Our @INISsecretariat Twitter account is slowly gaining ground and has a number of followers, but more needs to be done in order to reach the full potential of this powerful tool.

Articles in this issue of the Nuclear Information and Knowledge Newsletter deal directly or indirectly with some of the above mentioned lessons learned by the Nuclear Information Section in 2013.

Inspirational reading!

Dobrica Savic

Forward to a colleague

Know someone who might be interested in the NIS Newsletter? Why not [forward it to them](#)?

Unsubscribe

If you don't want to receive the Newsletter any more, please [unsubscribe](#).

Meetings

- **37th Consultative Meeting of INIS Liaison Officers**, 14-15 October 2014, IAEA, Vienna, Austria
- **15th International Conference on Grey Literature**, 2-3 December 2013, Bratislava, Slovakia
- **Nuclear Information Technology (China) Forum 2013**, 8-9 August 2013, Shanghai, China

[more](#)

IAEA Library Services and Activities



The number of electronic journals available through the Library increased by 40% in 2013. Responding to customers' demands for these services, the amount of personalized user profiles and information packages delivered increased by 18%. Access to the electronic Library via mobile devices is now available. The IAEA Library increased its collaboration with other sections within the IAEA, between librarians and its user communities, as well as with other nuclear libraries, UN libraries and key publishers and vendors. [Read more](#)

Worth Reading



The IAEA Library regularly obtains a number of new interesting publications primarily in the area of nuclear science and technology, but also from other areas of interest to its users. A selection of recently received publications is listed here for your reference. [Read more](#)

Also, have a look at the article on *Democratization of Nuclear Information*, prepared by D. Savic and published by [Online](#)

[Searcher](#).

The INLN Web Coordination Group



In the first ten months of 2013, INLN members continued to reap concrete benefits from their participation in the International Nuclear Library Network. In this period, seven new nuclear libraries/institutions joined the INLN, raising the number of participating libraries to 49 and the number of member countries to

31. [Read more](#)

NE News iPad and iPhone Apps



In August 2013, the IAEA Nuclear Information Section accepted the challenge to establish a new vision for content distribution, releasing a brand new application called NE News, targeted to mobile devices based on the popular Apple iOS platform, such as the iPad and the iPhone. [Read more](#)

ICS Developments



The Nuclear Information Section is continually working to improve and add new features to the INIS Collection Search (ICS). Some of the latest ICS developments include enhanced language support, an enhanced search results page, and improved performance of the advanced search. [Read more](#)

INIS Thesaurus: new terms and new interface



A new version of the INIS Interactive Multilingual Thesaurus has been developed and made available on the INIS website. This new Thesaurus version continues the commitment of the Nuclear Information Section (NIS) to offer users an enhanced experience and greater support for new technologies and devices. [Read more](#)

New posters



INIS and the Library have created new promotional posters. The aim of the posters is to raise awareness of key INIS and Library activities, products and services among a wide nuclear audience at government, industry, educational and research establishments throughout INIS Member States and the International Nuclear Library Network (INLN). [Read more](#)

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IAEA General Conference and INIS

The 57th annual session of the *IAEA General Conference*^{*} was held from 16–20 September 2013. More than 3,000 delegates from 159 IAEA Member States, international organizations, NGO's and the media attended the event held at the Austria Center in Vienna, Austria.

In his address to the delegates of the *57th IAEA General Conference*, IAEA Director General Yukiya Amano summarized the IAEA's activities in nuclear power, nuclear safety and security, nuclear applications, technical cooperation and non-proliferation. He stressed that the IAEA works to make nuclear technology available, access to which constitutes a unique and lasting contribution to achieving the Millennium Development Goals.

"The world has changed enormously in the past 60 years," Director General Amano said. "But the Atoms for Peace mission has lost none of its relevance. The Agency has successfully adapted to changing times and the evolving needs of Member States."

At its closing session, the General Conference delegates adopted resolutions aimed at strengthening the IAEA's work in the areas of nuclear science and technology, safety, security, safeguards and technical cooperation.

The Resolution devoted to strengthening the Agency's activities related to nuclear science, technology and applications (GC57/RES12) "Encourages the Agency to continue gathering data and information and making them available to Member States through the International Nuclear Information System (INIS) and other valuable databases". This gives INIS additional encouragement to continue working and improving in this specific area of IAEA activities.

Egypt, Malaysia and Slovakia highlighted their appreciation for the role INIS has played in the area of nuclear information for the last 43 years.

More information about the IAEA 57th General Conference can be found [here](#).

Dobrica Savić
Head, Nuclear Information Section

^{*}The IAEA General Conference, consisting of all Member States, meets once a year to consider, among other things, the Board of Governors report for the previous year, approve the accounts and programme and budget, and approve any applications for membership. It has the authority to request from the Board reports on any questions relating to the functions of the IAEA. During its regular annual session, the Conference conducts a general debate on the IAEA's policies and programme and examines a variety of matters brought to its attention by the Board, the Director General and individual Member States.





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Interview with Head of NIS

During the 57th IAEA General Conference held in Vienna from 16–20 September 2013, Dobrica Savić, Head of the Nuclear Information Section (NIS) was asked to comment on the current status of nuclear information.

In the interview, Mr Savić offered his view on the requirements of today's nuclear information users, and the improvements made in accessing nuclear information. In addition to a brief historical overview of changes made during the last few years, special emphasis was placed on the latest activities of the International Nuclear Information System (INIS) and future activities in improving user access to nuclear information, especially by providing a single and easy access point to all nuclear information available from the IAEA Department of Nuclear Energy.

What are the requirements of today's nuclear information users?

Mr Savić: The world of information, and in particular the world of nuclear information, is undergoing some major changes. Until recently, the main concern of information users was the quantity of information that could be found and the actual access to that information.

Today, nuclear information users have different requirements.

Firstly, they want information to be directly relevant to their search and their specific needs.

Secondly, in the ocean of available information, trustworthiness and source become of utmost importance.

And finally, one of today's concerns is not the quantity of information, but rather the quality of the information.

When searching IAEA's International Nuclear Information System – one of the world's largest collections of published information on the peaceful uses of nuclear science and technology, one searches a highly specialized set of over 3.6 million academic and technical publications and documents - so the relevance is very high.

Searching the INIS Collection eliminates the information noise generated by using search engines such as Google. In contrast to searching the web, INIS provides access to trusted and hand-picked quality information which has been processed by national INIS liaison officers for the last forty-some years. And, that is very important to the field of nuclear energy.

What has been done to improve access to nuclear information?

Great efforts were made by the IAEA and by the Department of Nuclear Energy to improve access to its nuclear information resources. I will mention only the results achieved by the International Nuclear Information System, which is the IAEA's largest information system.

In 2009, the INIS Collection was opened to all Internet users around the world, giving them free, open and unrestricted access to millions of records and hundreds of thousands of full text documents.

In 2010, INIS developed a search widget which was integrated into third-party Web sites.

In 2011, INIS replaced its legacy search engine with Google-based technology. Search speed was dramatically improved, while offering indexing of full text non-conventional documents. The English Thesaurus was integrated, and a multilingual user interface was introduced, together with cross-language searching.

In 2012, a mobile version of the INIS website was introduced, allowing users to access the site from their mobile devices. At the same time, the Thesaurus was extended to cover 8 languages. Also, the IAEA Library catalogue was included in INIS searches.

In 2013, a new feature was introduced which allows the INIS Collection to be browsed by Subject Category. The IAEA Meetings on Atomic Energy database was added to the INIS search.

Recently, an NE News app for iPad was released, offering access to news and information from the Department of Nuclear Energy through an easy to use application.

Our future efforts will continue to be directed towards improving user's access to information, especially by providing a single and easy access point to all nuclear information available from the Department of Nuclear Energy.

The complete interview can be viewed [here](#).

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IAEA Catalogue of Services for Nuclear Infrastructure Development

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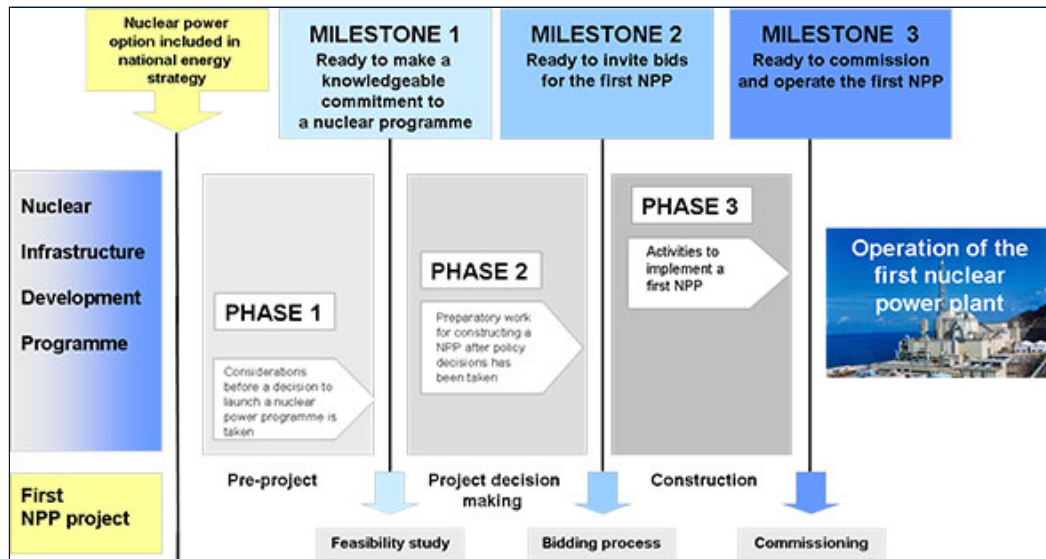
The IAEA Catalogue of Services is presented in two tables. It is based on the [IAEA Milestones Approach](#) for nuclear power infrastructure development, documented in 'Milestones in the Development of a National Infrastructure for Nuclear Power' ([IAEA Nuclear Energy Series NG-G-3.1](#)).

Including INIS in the catalogue will hopefully facilitate and encourage broader use of INIS products and services.

The catalogue is available [here](#).

Taghrid Atieh
 Head, INIS Unit

IAEA CATALOGUE OF SERVICES FOR NUCLEAR INFRASTRUCTURE DEVELOPMENT - BY PHASE												
Infrastructure Issue	Activity	Phase 1				Phase 2				Phase 3		
		Workshop/ Training	Expert Mission/ Advisory Services	Review Mission/ Peer Review	Tools & Networks	Workshop/ Training	Expert Mission/ Advisory Services	Review Mission/ Peer Review	Tools & Networks	Workshop/ Training	Expert Mission/ Advisory Services	Review Mission/ Peer Review
Cross Cutting Issues	Milestone Approach											
	Self-Evaluation Methodology and Action Plan Development for Nuclear Power Program											
	Assistance to Self-Evaluation Report for Nuclear Power Infrastructure Development											
	Integrated Nuclear Infrastructure Review Mission (INIR)											
	International Nuclear Information System (INIS)											
	Nuclear Energy System Assessment (NESA) - Limited Scope											
	Nuclear Energy System Assessment (NESA) - Full Scope											



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INIS Training Seminar

The INIS Secretariat organized a one week training seminar from 7–11 October 2013, at the IAEA headquarters in Vienna, Austria.

The seminar covered all parts of INIS operations focusing on all aspects and offering hands on examples of: input preparation and submission of non-conventional literature (NCL), including OCR and digitization, and the INIS Collection Search. It also covered the role of the national INIS Centre and the INIS Secretariat, the sources of national literature, and INIS promotion and outreach. The program included a tour of the IAEA Library and a presentation on the International Nuclear Library Network (INLN). The seminar consisted of lectures in the form of presentations, followed by practical sessions on the different INIS tools and software which facilitate input preparation. This included the use of Friendly Inputting of Bibliographic Records (FIBRE) and Computer Assisted Indexing (CAI).

Participants from 18 INIS Member States attended the seminar and took part in all sessions: Austria, Bosnia and Herzegovina, China, Cuba, Egypt, Ghana, India, Indonesia, Japan, Republic of Korea, Lebanon, Pakistan, Russian Federation, Slovak Republic, Syrian Arab Republic, Tajikistan, Uruguay, and Vietnam. Participant's feedback confirmed the high quality of the training course and the wealth of information provided.

Taghrid Atieh
 Head, INIS Unit



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The future of e-learning in NIS

The importance and current role of e-learning

E-learning is defined as learning conducted via electronic media, especially on the Internet (Oxford English Dictionary). E-learning solutions include training materials from various sources of media, including text, audio, video streaming, images, and animation, as well as technology applications and processes such as audio or videotape, satellite TV, CD-ROM, and computer-based learning. Local intranet/extranet and web-based learning can also be used. Combining these resources creates a learning environment through the various e-learning platform(s) with collaborative processes worldwide.

E-learning can occur in or out of the classroom. PowerPoint is a traditional tool used for teacher led instruction, synchronous learning or courses developed using various authoring tools for an asynchronous (self-paced) learning experience.

E-learning is rapidly gaining in importance worldwide. This is partly due to regional and global changes in accessibility to technology, as well as to a flourishing need for specialized and individualized training. E-learning is actively used by numerous corporations as a means of providing training to employees through online courses while saving time and resources. Furthermore, it has proven to be the most effective and standardized mode to increase knowledge.

To date, 77%* of U.S. corporations use online learning. It has been estimated that replacing instructor-based training with e-learning saves 50–70% of training costs. Furthermore, e-learning is not only cost-efficient, it has also been found to increase knowledge retention by 25–60% by enabling trainees to access and review course materials at leisure.

The effectiveness of e-learning is not only based on the concept of posting learning materials online for downloading, nor of replacing the traditional classroom with a virtual environment. The best Internet-enabled delivery methods are based on the concept of 'anytime, anyplace' learning, where different media and technologies are combined and complemented with human interaction. Such learning methods may include basic e-courses, such as textbooks, pre-recorded presentations, animated schematics and knowledge banks integrated with mentor programmes, virtual classrooms and desktop channel sessions. Current opinion suggests that taken together, e-learning, with its digital-based and mobile approaches for faster and more inspirational knowledge transfer, will not only supplement, but to a large extent also replace, much of the corporate and more traditional educational training formats.

Increased availability of e-learning at the IAEA

Much of the IAEA's mandate relates to training, for both staff and external stakeholders. Not unexpectedly, there has been an increasing demand for more sophisticated training tools, as well as fit-for-purpose e-learning solutions, training materials and formats. The number of available features and the complexity of using these tools has risen dramatically in recent years. A greater demand for training, combined with an upsurge of e-learning tools, has made e-learning solutions more attractive for many IAEA activities.

Communication platforms such as Lync Server and WebEx have recently become standard IAEA applications, which complement audio, video and web conferencing and which have facilitated the shift towards e-learning solutions. Examples of current interactive modules used at the IAEA range from nuclear power development, radiation detection, supporting analytical laboratories, reactors' development and construction, nuclear medicine, cancer skills, performing a nuclear energy system assessment, tools for first response to a radiological emergency, AIPS training, human health campus, as well as a cyber-learning platform for nuclear education and training.

Previous 'e-learning' activities within NIS

Several activities have been undertaken within the NIS towards integrating e-learning platforms. In order to optimally assist its Member States, and based on the need for data collection and information processing, INIS established a 'Distance Learning Programme'. It consists of two major courses for input preparation (Bibliographic Description and Subject Analysis) and is offered both on the Internet and CD-ROM, depending on the particular needs of developing countries and new INIS Members.

Benefits and requirements of incorporating e-learning as part of regular NIS services

The advantages of incorporating e-learning as part of regular NIS services are numerous and include opportunities for collaborative processes, increasing individual and organizational performance, higher

volumes of training while saving costs, electronic delivery, ease of collecting, analysing, interpreting and presenting evaluative data, enabling the evaluation of tutors, collecting and analysing training data to inform continuous process improvement, increasing the returns on IAEA training investments, optimizing overall productivity and job performance of staff, improving the likelihood of business objective realization by adequately training the work force, enhancing the sharing and exchange of materials amongst departments/divisions as well as between different geographic locations, supporting personalized and on-demand learning paths that enhance training for Agency-wide applications, and maximizing the returns on IAEA training investments. These all combine to make e-learning solutions highly valuable to both internal and external users.

In order to sustain the activities inherent in developing and maintaining an effective and efficient e-learning platform in NIS, proper infrastructure and the necessary components (IT, Subject Matter Expert (SME), instructional designer, etc.) need to be in place.

An important component of e-learning is content gathering. SMEs collect information from a variety of sources to build courses on demand. In line with the increased demand for nuclear information, NIS, with the INIS Collection Search of more than 3.5 million records, can participate and play a key role in these activities and act as a collaborative partner vis-à-vis other groups.

The role of IT in developing and maintaining an e-learning environment is equally important. NIS has a sound IT infrastructure, which allows a coordinated approach toward the development of e-learning solutions. With increasing demand for new options, it will be essential for development to continuously evolve. The skilled NIS IT group can be an asset to e-learning by assisting in the development of expansive features.

Current projects

Currently, NIS has started an e-learning solutions project (the NIS Training Series) in an effort to rapidly expand the quality and volume of its training activities. This project focuses on e-training activities related to the use of tools currently employed at INIS and the IAEA Library. During this project, a skeleton platform was established and training materials from various sources, including Excel, PDF, Word, and audio and video streaming, were collated.

This will assist all new staff during the induction process. By offering an e-learning approach, NIS will also provide Member States with the relevant and up to date educational packages necessary to further develop their professional competencies.

The NIS Training Series incorporates both a conventional educational approach, through formalized training courses held in classrooms, and e-learning activities. The plan is to use a combined solution, such as a continuous and collaborative process, that is essentially focused on the individuals' performance and development. Hence, it integrates a thoroughly personalized and dynamic strategy towards the acquisition of knowledge. Both the pace and the timing of the study depend on individual choice. The main concept of e-learning is to learn rather than merely be trained, whereby understanding the topic is further enhanced by engaging the entire web usability, communication tools, and documents to provide a wide-ranging outlook on the subject being studied.

E-learning will be provided at no cost with the use of an available technical infrastructure, such as access through web servers or stand-alone packages. In this manner, the efficient transfer of knowledge and technology can be ensured to a wide range of interested recipients.

Adoption of open source, dynamic tools and modern technology designed for the future will be used in this project. The platform will be independent and web based, and can be easily migrated for handheld or mobile phone access.

Massoud Malek

Consultant, Nuclear Information Section

*based on CertifyMe.net report

<http://www.certifyme.net/osha-blog/elearning-statistics-2013/>

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INIS Regional Cooperation Meeting in Moscow

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The opening speech was delivered through a recorded video message from Mr. Bychkov, Deputy Director General of the Department of Nuclear Energy at the IAEA.

Ms. Taghrid Atieh, Head of the INIS Unit, gave two presentations. The first one included an introduction to INIS and its main products and services; a proposal for regional cooperation on collecting data and information related to major nuclear accidents, mainly to update the content of the *Chernobyl DVD - the Accident and its Consequences* which was produced in 2005 by the INIS Secretariat and concerned INIS members; and a proposal for providing users with access to the records of a major nuclear information source/database that existed in the former Soviet Union prior to the establishment of INIS in 1970, i.e. Referativnyj Zhurnal (RZ). The second presentation focused on sources of national literature and INIS promotion & outreach.

Mr. Domenico Pistillo, Acting Group Leader of the Systems Development and Support Group, gave a presentation on the INIS Collection Search (ICS) with a detailed demonstration of the ICS and its main features. He also delivered a presentation prepared by Mr. Dobrica Savić, Head of the Nuclear Information Section (NIS), on the future of nuclear information.

INIS Liaison Officers and representatives from Azerbaijan, Belarus, Ukraine, Uzbekistan and JINR participated in this event and gave presentations on their INIS related activities. Several presentations were delivered by participants from NRNU MEPhI and Rosatom on nuclear education resources and information support.

The meeting was a good opportunity to encourage further INIS cooperation among the different nuclear institutions, as well as among the participating CIS countries in the region.

The meeting concurred on giving priority to identifying and submitting INIS NCL full texts, and on collecting information related to major nuclear accidents, mainly information related to the Chernobyl accident, and on exploring the possibility and best approach to provide users with access to the records of Referativnyj Zhurnal (RZ). It was also recommended to introduce INIS as a subject in a relevant course at nuclear education institutions.

Taghrid Atieh
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Cooperation among INIS Members

In the spirit of cooperation among INIS Members and the INIS Secretariat, the National INIS Centre of France hosted a training session for a staff member from the Joint Research Centre of the European Commission (EC). The training took place at the national INIS center of France on the premises of the CEA/Saclay Research Centre near Paris during the second week of October 2013.



All aspects of INIS input preparation, from bibliographic descriptions, to subject analysis and the submission of input and documents to INIS, were addressed during this training. Much emphasis was placed on the coverage and input preparation of NCL literature related to eleven international nuclear conferences published by the European Nuclear Society (ENS).

At the end of the training, more than 50 records and the corresponding PDF files were submitted by the EC to the INIS Secretariat at the IAEA in Vienna.

Taghrid Atieh

Head, International Nuclear Information System (INIS)

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IAEA Library Services and Activities

The growth of published information in its varied forms and the growing use of new communication technologies in library operations provide both opportunities and challenges for libraries. Various collaborative and effective techniques for the management of information services have increased as well. The IAEA Library made progress in collecting expensive resources through cooperative arrangements, while offering access to information resources through new technologies. The IAEA Library, in cooperation with other libraries, was able to negotiate subscriptions at a lower cost. Partnerships with IAEA procurement experts and vendors resulted in more cost-effective ways to obtain information. The IAEA Library's subscriptions to electronic publications allowed the Library to substantially increase the total number of electronic subscriptions, while improving efficiency for its end users. As a result, the number of electronic journals available through the Library increased by 40% in 2013.



Library Services

New technology, combined with the changing nature and needs of library users, is redefining the role and functions of the library and may bring even greater changes in the future. The Library has successfully made the conceptual shift to a customer oriented approach, ensuring the quality of services provided to users. It maintains ongoing reviews of customer information needs in order to adjust products and services to meet changing demands.

In 2013, circulation services provided a personalized approach to make the best use of print resources and loans, which led to an increase of 24% compared to 2012. The Library assures compatible delivery of information acquired through partnerships using the inter-library loan and document delivery services offer users better access to information resources in other libraries. Due to the increase of e-journals, the number of requests for document delivery decreased by 15%, while the number of document delivery requests from Member States has more than doubled.

As the research process includes discovering, gathering, creating and sharing information, the Library has assisted researchers in pursuing these activities by offering current awareness or alerts services. Responding to customers' demands for these services, the amount of personalized user profiles and information packages delivered increased by 18%. Among the current awareness services provided by the Library, the table of content (ToC) alert service provides a gateway to information content in journals. The number of e-journals delivered to users has grown by more than 20% this year.

New Mobile Library Website

Access to the electronic Library via mobile devices is now available, allowing users to enjoy seamless access to information at any time and from anywhere. This new IAEA Library access point offers users the opportunity to access library resources and services regardless of their location.



Resource Description and Access (RDA)

The IAEA Library is also in the process of adapting the IAEA Library cataloguing standards to meet the provisions of Resource Description and Access (RDA) standard. RDA, designed for the digital world, is built on foundations established by the Anglo-American Cataloguing Rules (AACR), and will provide a comprehensive set of guidelines and instructions on resource description and access covering all types of content and media.

Information Management Infrastructure

Due to the shift from printed to electronic publications in the Library collection, there is a need for a new Integrated Library System (ILS) to effectively manage the processes for acquiring, describing, and making available electronic resources. The Library developed comparators to measure the current ILS's effectiveness against other market offerings to assure that the ILS selected for the Library offers the most advanced and effective system. Functional requirements for a new Library system have been prepared so that it fulfills the need to handle both formats and to enable the Library to provide better services to its users. The Library will continue comparing and searching for the most suitable ILS in order to prepare for a transition to the new system at the right time.

Collaboration & partnership

Collaboration has become the key strategic issue for all libraries. The IAEA Library has increased collaboration between the Library and sections within the IAEA, between librarians and their user communities, as well as with other nuclear libraries, UN libraries and key publishers and vendors. The IAEA Library has arranged regular consultations with the Library advisors and subject experts on acquisitions, sought feedback from users on resources and improvement of its services, developed collaborative links with other information providers, and expanded its services. Thus, it has managed to reach out to more users and establish customer links to more efficiently fulfil users' information needs.

Library outreach

The IAEA Library increased its outreach services to provide training and exposure to available information resources and services, in order to maximize return on investment for its products and services by encouraging wider use and self-sufficiency in using these tools. Marketing techniques, such as multimedia presentations of Nuclear Information Section resources and services (media corner) and the Library News bulletin, are used to ensure that clients know about available services. It is believed that this will further increase user satisfaction with the services offered by the IAEA Library.



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Worth Reading

WORLD ENERGY OUTLOOK 2013



Bringing together the latest data and policy developments, the World Energy Outlook 2013, published by the International Energy Agency presents up to date projections of energy trends through 2035, fuel by fuel, sector by sector, region by region and scenario by scenario.

[More information](#)

TECHNOLOGY TRANSFERS AND NON-PROLIFERATION



Efforts to stop the spread of weapons of mass destruction (WMD) increasingly focus on preventing the proliferation and misuse of dual-use technologies: information, materials and equipment that can be easily applied for peaceful and hostile purposes. This book examines the issue of the proliferation of such technologies as well as the efforts of the international community to control them.

[More information](#)

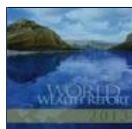
FUEL FABRICATION AND URANIUM PRODUCTION COST



UX Consulting Company released two reports essential to the nuclear industry. Fabrication Market Outlook 2013 looks at the long-term future of the fabrication markets, while Uranium Production Cost report identifies where expanded and new uranium supplies will come to meet future demand through 2030.

[More information](#)

WORLD WEALTH 2013



The 2013 World Wealth Report published by the Boston Consulting Group concludes that despite the turbulence of the global economy, particularly in the Eurozone area, both the population and wealth of the world's high net worth individuals (HNWIs) reached significant new highs in 2012.

[More information](#)

NUCLEAR WEAPONS HISTORY



Eric Schlosser's recent well researched and written book – *Command and Control, Nuclear Weapons, the Damascus Accident and the Illusion of Safety* – explores the history of nuclear weapons in the U.S. through the details of a single accident.

[More information](#)

SOFT SKILLS TRAINING



Soft skills are the cluster of personality traits, social graces, communication, language, personal habits, friendliness, and optimism that characterize relationships with other people in the workplace. This book is designed to help trainers and other organizational leaders build these important skills through a variety of methods.

[More information](#)

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The INLN Web Coordination Group

In 2013, INLN members continue to reap concrete benefits from their participation in the International Nuclear Library Network. Seven new nuclear libraries/institutions joined the INLN, bringing the number of participating libraries to 49 and the number of member countries to 31. In today's environment of user expectations for faster electronic delivery services, ever-increasing digital resources and rapidly changing technology, the Network has not lost its momentum. To function as effectively as possible and to embrace these challenges and opportunities, while addressing shrinking resources, the Network introduced the INLN Web Coordination Group, which caters to strategic decisions and directions.

Network Governance

In order to increase coordination and collaboration among Network libraries in providing services to users, and ensure access to information for the global nuclear community while making efficient use of library expenditures, the Network established an INLN Web Coordination Group – its governance team – which regularly convenes online. The Group aims to direct the Network's evolution towards a distributed and coordinated nuclear community, and secure its future sustainability. Institutions from Argentina, Brazil, Canada, Ireland, plus the IAEA Library, constitute the Group which works towards leveraging technology and information flows to deliver point-of-need access to library services for nuclear researchers. Simultaneously, the Group enables INLN internal and – where applicable – external users to access information independently by creating or enhancing tools and resources, while striving for quality and timeliness of services across all participating libraries. The newly established Group will enable the global nuclear information and knowledge management community – and particularly the IAEA Library – to leverage the expertise and resources of the geographically diverse libraries/institutions to improve access to diverse collections. It will also ensure that core information services of reference/research, interlibrary loan (ILL), document delivery, guidance on information management, and access to electronic library services are available at all Network libraries – of course, always in compliance with the terms and conditions of licence agreements. At the same time, this collaborative Network enables individual libraries to streamline operations and reduce redundancies; each participating library functions as both a national/local facility meeting the nuclear information needs of local customers, as well as a Network node providing services to other libraries – i.e. worldwide access to its collections, plus knowledgeable reference and research services to IAEA staff and researchers from all over the world.



The IAEA Library is entrusted with the task of increasing electronic access to IAEA publications through digitization – with the technical help of the International Nuclear Information System. All members of the Group work to increase awareness of the Network libraries' offerings through diverse outreach efforts; the IAEA Library has included Network activities in its communications and outreach and has expanded its training programme to offer training opportunities to Network participants. In 2014, a Practical Arrangement is to be drafted and ratified



by all INLN members, while the first ever INLN directory will be created in the same year – it will include a paragraph introducing each INLN member's parent organisation, a description of the Library/Knowledge/Information Centre resources, plus full contact details, paving the road for the first inventory of the Network.

The future

Over the next three years, the International Nuclear Library Network will work to implement the goals and actions laid out by the Web Coordination Group. There are many external factors – resource allocation, ongoing day-to-day operations of Network libraries, evolving parent institutions' priorities, and new technological requirements – that may affect the Network's ability to implement the actions decided. The Network's coordination Group has been created to ensure that the implementation of a decision is managed closely and that the set schedule is monitored and updated to ensure the activities are implemented effectively. It rests on the active participation of the Group members to make this happen.

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NE News iPad and iPhone Apps

A famous Italian movie director was once quoted as saying - "*a different language is a different vision of life*"¹. When it comes to information, there is little doubt that current smart-phones and tablets, all equipped with crystal clear screens and high speed connectivity, speak to consumers in a different language than that of traditional channels of information.

In August 2013, the IAEA Nuclear Information Section accepted the challenge to establish a new vision for content distribution, releasing a brand new application called **NE News**, targeted to mobile devices based on the popular Apple iOS platform, such as the iPad and the iPhone. Functioning as a one-stop access, single portal to all newsletters and brochures of the Department of Nuclear Energy, **NE News** is an innovative product, both in technique and inspiration.

Since the dawn of the Internet, we have witnessed a Copernican revolution in the relationship between information and its users: while in the past users had to find their way to information, it is now information having to find its way to its recipients, often by disrupting the veil of noise created by an overabundance of similar knowledge.

Consolidating all available newsletters in a single, intuitive and easy to use application, **NE News** works as a news aggregator for the Department of Nuclear Energy, guaranteeing immediate and cohesive visibility to its newsletters, normally disseminated throughout departmental sub-portals. Readers can still, at their discretion, look autonomously for freshly released newsletters on the relevant websites of the Department; alternatively, they can simply let the newsletters find them, running **NE News** on their favourite Apple phone or tablet – a passive approach to information endorsed, according to recent studies², by 66% of tablet or smart phone users.

While newsletters play a significant role in departmental information, emerging social media channels play another role. The presence of the Department of Nuclear Energy on the Twitter social network is long established, with Sections connecting directly with their stakeholders, providing news and receiving feedback on their related activities. The **NE News** application aggregates all relevant Department of Nuclear Energy Twitter accounts, providing intuitive, immediate access to the social network, thus promoting user interaction.

NE News also includes a privileged gateway to the collection of the International Nuclear Information System (INIS), a digital library of over 3.6 million publications on the peaceful uses of nuclear energy, right at the user's fingertips. Developed for the Apache Cordova platform, **NE News** incorporates the intuitive jQuery Mobile UI framework, which guarantees maximum compatibility and portability of the source code.

NE News is currently available, at no cost to the user, in the Apple App Store, for iPad and iPhone/iPod Touch devices running on iOS 5 or above. An Android version is currently under development and expected for release in the Google Play Store by the end of 2013.

Riccardo Rubini
System Engineer
Systems Development and Support Group

1. "Un linguaggio diverso è una diversa visione della vita" (Federico Fellini)

2. Pew Research Center, 2012 – cf. <http://www.journalism.org/2012/10/01/future-mobile-news/>



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IAEA
International Atomic Energy Agency

Nuclear Information and Knowledge



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ICS Developments

The INIS Collection Search (ICS) is the result of a collaborative effort between the Nuclear Information Section and INIS Liaison Officers (ILOs) around the world. Batches of bibliographic and full text records are sent to INIS weekly by ILOs. These records are checked for completeness and conformity with standards, registered, indexed, processed and finally added to the INIS Collection.

Approximately 2,300 records per week are added, amounting to over 120,000 per year. Over the 44 years that INIS has been in operation, some 3.6 million bibliographic records have been added. Of this total, over 450,000 are full text.

We hope, with the INIS Collection Search, to provide a user friendly and useful interface to this important resource for nuclear knowledge and preservation. To that end, we are continually working to improve its usefulness to our users by adding new features. In the last six months, we have added the following:

Enhanced language support

- The INIS Thesaurus has been extended in Japanese.
- Support for the display of non-English abstracts has been added. Additionally, when an abstract is displayed, a language indicator now appears at the top.
- Bibliographic records saved in users' workspace can be translated into all official IAEA languages as well as in German and Japanese.

他の言語でworkspaceレコードを表示する: Japanese Powered by Google Translate

小型のモジュール流動床軽水型原子炉概念のステータス

によって Sefidvash, F (リオグランデ・ノース州立大学) 及び、ボルトアレグレ (ブラジル), 専攻デENGENHARIA核)

[詳細を見る](#)

[EN] 中核の小さなモジュール炉概念の最先端技術が提示されている。反応器の設計は、流動床の概念に基づいており、加圧水型原子炉を利用している技術。燃料が自動的に事故条件下で重力によって反応器から除去される。反応器は、固有の安全性と受動的冷却の特性を示しています。ここでは元の設計への変更のための2つのオプションは、安定性及び反応器の熱効率を高めることが提案されている。反応器の修正版は、約40%のプラント熱効率を達成する冷却として軽水が蒸気の選択を伴う。別のオプションは、非流動床を生成し、その結果、反応器の動的安定性を保証するために炉心の形状を変更することである。燃料中のタンタルの混合は、電力エクスカッションに追加の危害として提案されている。それらは容易に食品原料、および工業用途のための放射線源として用いることができる形状およびサイズであるため、使用済燃料ペレットは、核廃棄物とは考えられない。原子炉は、炭素繊維とアルミニウムバーナーとして動作することやトリウム燃料サイクルで動作することができます。 (orig.)

<p>主題</p> <p>情報源/レポート</p> <p>文献形態</p> <p>出版国/機関</p> <p>ディスクリプタ (コピ)</p> <p>ユータ付与</p> <p>ディスクリプタ (インデ)</p> <p>ユータ付与</p>	<p>特定の原子炉および関連技術 (E3200)</p> <p>原子力工学とデザイン, V. 167 (2), ISSN 0029から5493, CODEN NEDEAU, 1996年11月, P. 203-214</p> <p>ジャーナルの記事</p> <p>オランダ</p> <p>ディスクリプタ (コピ) 事故, 封じ込め, 冷却システム, エネルギー源, 工学的安全システム, 濃縮ウラン型原子炉, 燃料の分散型原子炉, FUELS, HOMOGENEOUS</p> <p>ユータ付与 REACTORS, 材料, 発電用原子炉, リアクトル事故, リアクトル部品, 原子炉材料, REACTORS, 熱中性子炉, 水冷炉, 水循環炉</p> <p>ディスクリプタ (インデ) 収容システム, 流動層反応器で, HYDRAULICS, 冷却材の損失, モジュール構造, 核燃料, PWRタイプ用原子炉, 原子炉冷却システムス</p> <p>ユータ付与</p>
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<p>言語</p> <p>登録番号</p> <p>刊行年</p> <p>INIS巻</p> <p>号INISは</p>	<p>英語</p> <p>28018942</p> <p>1996</p> <p>28</p> <p>05巻</p>
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Enhanced search results page

- Extended record type data in the Advanced Search interface to include more record types, such as: Legislative material, Thesis/Dissertation, Standard, and Software.
- The full text link of a lead record to the title of all of its Analytic records was added.
- It is now possible to further filter results from a given query by selecting Publication Year and/or INIS Volume, as well as Country and/or Language.

Language

English (> 3200)
German (> 2400)
Japanese (> 1500)
Russian (> 1200)
French (> 1200)
Portuguese (> 450)
47 More

- Users can see the size of the PDF file, if such file is associated with the record result.

Cryogenic system for SCC horizontal test

165 KB - http://www.iaea.org/inis/collection/NCLCollectionStore/_Restricted/21/094/21094770.pdf - Text Version
by Ogitsu, T.; Ajima, Y.; Hara, K.; Hosoyama, K.; Kabe, A.; Kojima, Yuuji; Sakamoto, Y.; Terashima, A. (National Lab. for High Energy Physics, Tsukuba, Ibaraki (Japan))

Improved performance of the Advanced Search

- Formerly, the Advanced Search page took several seconds to load. Now, the page loads almost instantly.

INIS Collection Search
Standard Search

Advanced Search

Search INIS Collection for documents that...
Clear All

Include:

DEC
English
PARALLEL PROCESSING
Add Another

But do not include:

Anywhere
Add Another

DEC:"PARALLEL PROCESSING"
Search

INIS Collection Search Highlights

As you have seen, both the INIS Collection, and the ICS interface are constantly growing and improving. In the coming year, we plan to increase the coverage of the INIS Collection Search by adding more datasets, including the Fast Reactor Database from the IAEA's Nuclear Knowledge Management Section as well as the Fukushima Archive from Japan. We plan to extend the Collection to include multimedia content, such as video. We will add more features for our users, such as the addition of more possibilities for dynamic navigation, e.g. by descriptor and subject category. These, and many other improvements can be expected. We in the Nuclear Information Section hope that you will find this to be a useful tool for nuclear research, preservation, and dissemination.

Brian Bales
Acting Group Leader
Systems development and Support Group

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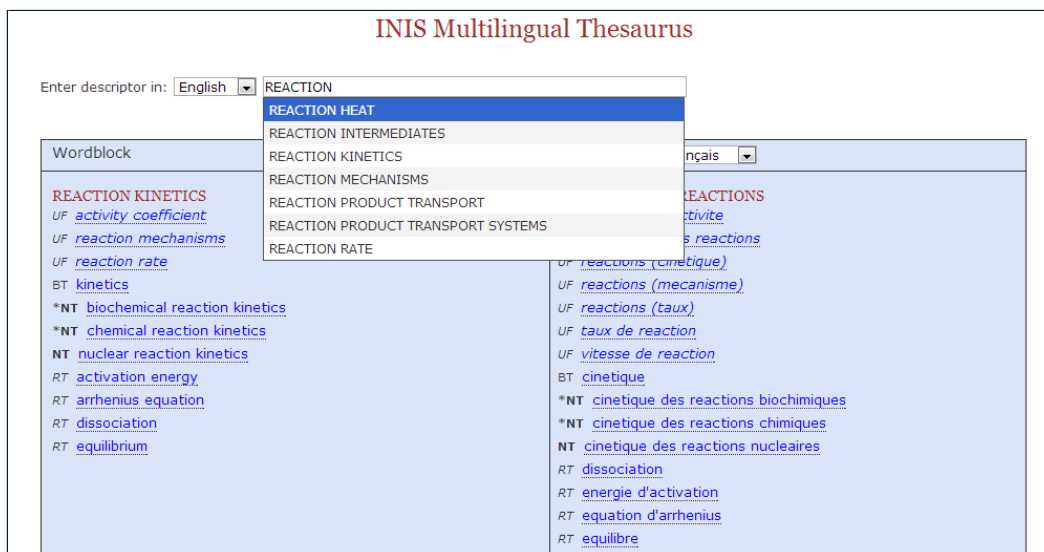
INIS Thesaurus: new terms and new interface

A new version of the INIS Interactive Multilingual Thesaurus has been developed and is available at: <http://nkp.iaea.org/Thesaurus>.

This new Thesaurus version continues the commitment of the Nuclear Information Section (NIS) to offer users an enhanced experience and greater support for new technologies and devices.

Simplified user interface

The user interface has been simplified and is now consistent with that of the INIS Collection Search. It is especially well formatted for use with tablet computers. A user simply chooses a language of input, and begins typing in the text box provided. A list of terms matching the user input appears. The user may either select from the list, or continue typing. When a term is selected, the date the term was added to the INIS Thesaurus, a definition (if one exists), and related terms appears. Each of the related terms may then be selected, to provide that term's wordblock.



INIS Multilingual Thesaurus

Enter descriptor in: English REACTION

Wordblock

REACTION KINETICS
 UF [activity coefficient](#)
 UF [reaction mechanisms](#)
 UF [reaction rate](#)
 BT [kinetics](#)
 *NT [biochemical reaction kinetics](#)
 *NT [chemical reaction kinetics](#)
 NT [nuclear reaction kinetics](#)
 RT [activation energy](#)
 RT [arrhenius equation](#)
 RT [dissociation](#)
 RT [equilibrium](#)

REACTIONS
 UF [reactions \(cinetique\)](#)
 UF [reactions \(mecanisme\)](#)
 UF [reactions \(taux\)](#)
 UF [taux de reaction](#)
 UF [vitesse de reaction](#)
 BT [cinetique](#)
 *NT [cinetique des reactions biochimiques](#)
 *NT [cinetique des reactions chimiques](#)
 NT [cinetique des reactions nucleaires](#)
 RT [dissociation](#)
 RT [energie d'activation](#)
 RT [equation d'arrhenius](#)
 RT [equilibre](#)

Multilingual support

Descriptors may be entered in Chinese, English, French, German, Japanese, Russian, and Spanish. After selecting a term, translations are also available in each of these languages.

New Terms

The INIS Thesaurus is a controlled terminological knowledge base that has been developed over the years through the contribution of INIS Member States in all areas of peaceful applications of nuclear science and technology, which is also the subject scope of the INIS Collection. The thesaurus is primarily used for subject indexing of input into the INIS system and for retrieval of information from the database. Thanks to the vital support of the INIS Member States, the thesaurus has been translated into eight languages (i.e. all IAEA official languages plus German and Japanese) and is available online to assist our global users as a tool for retrieval and for general reference services. It is a dynamic information resource that is continually updated to cater to new developments of terminologies in nuclear science and technology. As of the end of

October 2013, the INIS Thesaurus contains a total of 30,746 terms. Some of the recent additions to the thesaurus include terms from diverse subjects such as: FUKUSHIMA DAIICHI NUCLEAR POWER STATION, LEPTOQUARKS, RADIOEMBOLIZATION, SMART GRIDS and FLEROVIUM.

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Bekele Negeri
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New Promotional Posters

INIS and the Library have created new promotional posters. The aim of the posters is to raise awareness of key INIS and Library activities, products and services among a wide nuclear audience at government, industry, educational and research establishments throughout INIS Member States and the International Nuclear Library Network (INLN). Promotion of INIS is jointly undertaken by the INIS Secretariat in Vienna, Austria, and INIS Liaison Officers in Member States who may wish to use the poster for promoting their own INIS activities at various nuclear conferences, meetings, symposia and exhibitions.

A high resolution PDF of the INIS A3-sized poster can be viewed and downloaded [here](#).



A high resolution PDF of the IAEA Library A3-sized poster can be viewed and downloaded [here](#).



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[@INISsecretariat](https://twitter.com/INISsecretariat)