



The Technical and Scientific Support Organizations Forum - TSOF

1st GNSSN Steering Committee (SC) Meeting

**IAEA Headquarters, Vienna, Austria
02-04 April 2012**

M. Heitsch

**Safety and Security Coordination Section
Department of Nuclear Safety & Security**

Outline

- **Background**
- **Status of the TSO Forum (TSOF)**
 - **Examples of network site in GNSSN**
- **Working areas of the forum**
- **General activities**



Background

- 2nd International Conference on Challenges Faced by Technical and Scientific Support Organizations in Enhancing Nuclear Safety and Security held in Tokyo in 2010.
 - Objectives of this conference were to develop a common understanding of the responsibilities, needs and opportunities of TSOs and to further promote international cooperation and networking among TSOs.



Background

- The president's report includes several conclusions and recommendations. Among others we can find:
 - The IAEA should foster the establishment of a forum dedicated to nuclear safety infrastructure development issues related to scientific and technical support. Such a 'TSO Forum' would meet regularly in between the international TSO conferences, establish close working relations with the Regulatory Cooperation Forum (RCF), and operate in conjunction with established regional TSO cooperation structures as well as with the NEA/CSNI on science related issues...



Status of the forum

- A first meeting to establish the TSO Forum was held in July 2011.
 - The meeting was held in several main sessions:
 - The Need for Cooperation among TSOs on a Global Scale and Options of a TSO Forum,
 - The Scope of the TSO Forum (contributions of participants),
 - Terms of Reference (ToR) and Working Plan of the TSO Forum.



Status of the forum

- Representatives from eight countries and the EC followed the invitation of the IAEA.
- Presentations from international participants described the structure of international TSOs and the activities of the European regional network of TSOs - ETSON,
- Outlined fields of cooperation and the potential working scope (including Fukushima challenges) of the forum were discussed.



Status of the forum

- The second meeting to constitute the Steering Committee of the TSO Forum was held in January 2012.
 - The meeting was organized in six sessions with a total of fourteen presentations by external guests and ten contributions from IAEA staff.
 - The Terms of Reference of the forum were adopted.
 - A working plan was released and several actions were defined.
 - Mr Jacques Repussard, DG of IRSN in France, was elected as chairperson of the forum and SC.



Status of the forum

- The official nomination process for the Steering Committee is still running. TSOs of fifteen countries are being represented in the SC.
- The next meeting of the Steering Committee will be in September 2012 in Berlin (GRS offices).
- A plenary to further communicate to work of the forum is planned at the next IAEA General Conference in September 2012.



Examples of the network site in GNSSN

- <http://gnssn.iaea.org/Pages/TSOF.aspx>

Home Global Networks Regional Networks Thematic Networks Authorized Area Sitemap

Country Information
GNSSF
Stakeholders
[Organisations and Bodies](#)
Operators
RegNet
Nuclear Industry
TSOs
News Media, NGOs

Info Resources
Conventions
Codes of Conduct
Safety Standards
Security Guidance
Review and Appraisal Services
Education and Training
Conferences and Workshops

All Site Content

Technical and Scientific Support Organization Forum (TSOF)



Background

The International Conference on Challenges Faced by Technical and Scientific Support Organizations (TSOs) in Enhancing Nuclear Safety and Security, which was held in Tokyo, Japan from 25 to 29 October 2010, concluded that "The IAEA should foster the establishment of a forum dedicated to nuclear safety infrastructure development issues related to scientific and technical support. Such a 'TSO Forum' would meet regularly in between the international TSO conferences, establish close working relations with the Regulatory Cooperation Forum (RCF), and operate in conjunction with established regional TSO cooperation structures as well as with the NEA/CSNI on science related issues..." The recent event at the Fukushima NPS and the subsequent Ministerial Conference at the IAEA further highlighted the need of a TSO Forum. The IAEA, as Secretariat of this forum, will facilitate and promote coordination and collaboration of Member State activities. IAEA will also contribute as appropriate.

Objectives and Scope

The objective of the TSO Forum (TSOF) is to encourage open dialogue and sharing of scientific and technical information among TSOs worldwide. It promotes coordination and collaboration among the TSOF Member States to contribute to the worldwide harmonization of practices. This includes:

- Strengthen the role of TSOs and their global coordination and collaboration, including countries in the process of expanding or embarking on a nuclear programme;
- Promote coordination and collaboration among the TSOF Member States to foster scientific and technical capacity building including education and training;
- Share and mutually learn safety and security experience and communicate lessons learned including feedback on the use of IAEA Safety Standards and security publications.

TSOF activities are focused on the enhancement of nuclear and radiation safety and security and related infrastructure development. TSOs provide technical and scientific support to regulatory bodies or the industry and may advise governments in order to achieve the highest possible level of safety and security. The TSOF will not attempt to change or influence in any way existing or future arrangements (bi-lateral or otherwise) between and among Member States. TSOF is not meant to supersede the role of national TSOs. The TSOF does not have the authority to dictate disposition or application of resources from one Member State to another. That arrangement is between and among Member States.

GNSSN for Registered Users

- [How to Register for the GNSSN Services](#)
- [TSO Forum Collaboration Space](#)
Login required

Related Links

- [TSOs Meetings and Conferences](#)
- [Information on TSOs](#)

Contact

- [GNSSN Administrators](#)
- [TSO Forum Coordinator at the IAEA](#)



Examples of the network site in GNSSN

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Examples of the network site in GNSSN

Home	Global Networks ▾	Regional Networks ▾	Thematic Networks ▾	Authorized Area ▾	Sitemap
Date	Location	Name	Description	Link	
12-16 May 2013	Pisa, Italy	NURETH-15  NEW	<p>The International Topical Meeting on Nuclear Reactor Thermal Hydraulics (NURETH) is recognized as the key series of international topical meetings in the field of thermal-hydraulics.</p> <p>The NURETH conference is an important series of major international topical meetings devoted entirely to the advancement of knowledge in nuclear reactor thermal-hydraulics and related areas. It covers a wide range of topics related to the different types of current and future generation nuclear reactors. Continuing the tradition of the series of fourteen conferences, NURETH-15 will gather an international group of leading academic and industry researchers and engineers engaged in work focused on nuclear reactor thermal-hydraulics.</p>	Conference website	
30 July- 3 August 2012	Anaheim (CA), USA	ICONE 20  NEW	<p>The International Conference on Nuclear Engineering (ICONE) is the premier global conference for addressing the needs of the nuclear industry. The focus of ICONE is on the technical state-of-the-art and the current status of nuclear power around the world.</p>	Conference website	
22-26 April 2012	Helsinki, Finland	TopSafe 2012 "Safety in Reactor Operations"	<p>TopSafe 2012 provides a forum for addressing the current status and future perspectives with regards to safety at nuclear installations worldwide.</p> <p>TopSafe 2012 will focus on three main subjects:</p> <ul style="list-style-type: none"> • Safety and related analyses in operating nuclear power plants and other nuclear installations • Safety and Risk Assessment • Trends in nuclear safety for existing and future installations 	Conference website	
19-22 March 2012	Vienna, Austria	International Experts' Meeting on Reactor and Spent Fuel Safety in the Light of the Accident at the Fukushima Daiichi Nuclear Power Plant	<p>The primary objectives of this International Experts' Meeting (IEM) are: to analyse relevant technical aspects of reactor and spent nuclear fuel management safety and performance related to severe accidents; to review what is known to date about the accident at the Fukushima Daiichi nuclear power plant in order to understand more fully its root causes; and to share the lessons learned from the accident.</p> <p>Results and presentations can be found under: http://www.iaea.org/newscenter/news/2012/fukushimasafety.html</p>	Meeting website	



Examples of the network site in GNSSN

Logo	Name	Country	Address	Respective regulator	Activities of TSO	International relations
	Gesellschaft fuer Anlagen- und Reaktorsicherheit (GRS) mbH	Germany	Schwertnergasse 1, D-50667 Cologne, Germany	Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU)	<p>The Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) is a non-profit organisation which deals with technical-scientific research and provides expertise. The company administers interdisciplinary knowledge, progressive methods and qualified data.</p> <p>GRS was established in January 1977. The headquarters are in Cologne, other sites include: Berlin, Braunschweig and Garching nearby Munich. Currently, there are approximately 450 employees at GRS, 350 of whom work in the technical-scientific sector. GRS is only financed by contracts and the present annual volume of contracts is worth 57 million €.</p> <p>GRS's main customers are:</p> <ul style="list-style-type: none"> • The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety. (BMU) • The Federal Ministry for Economics and Technology. (BMWi) • The Federal Ministry for Education and Research. (BMBF) • The Department for Foreign Affairs • The Federal Agency for Radiation Protection (BfS) <p>Furthermore, GRS works on contracts from the Federal State Authority, the Federal Environmental Agency and the Technical Supervisory Board. An important international customer is the European Commission.</p>	<p>The aim of the international co-operation of GRS is to contribute to the highest possible safety of nuclear installations worldwide. This is achieved on the one hand by participating in working groups (e.g. of the IAEA or the OECD/NEA) and on the other hand by networking. This is to ensure a constant exchange of information about the development of new methods and the advancement of the state of the art in science and technology. The most important networks and initiatives of GRS are ETSO (European Technical Safety Organisation Network) and EUROSAFE.</p>
	Lithuanian Energy Institute	Lithuania	Breslaujos str. 3. LT-44403 Kaunas, Lithuania Tel.: +370 37 351403. Fax: +370 37 351271 E-mail: rastine@mai.lei.lt	<p>State Nuclear Power safety Inspectorate (VATESI)</p> <p>A. Goštauto str. 12. LT-01108 Vilnius, Lithuania Tel.: +370 5 262 4141. Fax: +370 5 261 4487. E-mail: atom@vatesi.lt</p>	<p>The main research areas, related to the nuclear energy are: numerical simulations of thermal-hydraulic processes during design, beyond design and severe accidents in nuclear reactors, spent fuel pools, containments and experimental facilities by employing the codes ASTEC, RELAP/SCDAPSIM, ATHLET-CD, COCOSYS; simulation of aerosols and Fission Products transport in the compartments of NPP; assessment of reactor core modifications and analysis of postulated reactivity accidents; structural analysis of NPP buildings, components and piping; Level 1 and Level 2 Probabilistic Safety Assessment of NPP; sensitivity and uncertainty analysis of modelling parameters and results; safety analysis of thermonuclear synthesis reactors; analysis of new generation nuclear reactors; dismantling and decommissioning of NPPs; management of radioactive waste.</p>	<p>LEI has an extensive experience in international projects:</p> <ul style="list-style-type: none"> - Comparative Assessment of Geological Disposal of Carbon Dioxide and Nuclear Waste in Lithuania (contract with IAEA) - Treatment Requirements for Irradiated RBMK-1500 Graphite to Meet Disposal Requirements in Lithuania (contract with IAEA) - Analysis of Nuclear fuel Cladding Resistance to Hydride Cracking During Long-Term Storage (contract with IAEA) - Treatment and Disposal of Irradiated Graphite and Other Carbonaceous Waste (FP7 project CARBOWASTE) - Fate of Repository Gases (FP7 project FORGE) - Network of Excellence for Sustainable Integration of European Research on Severe Accident Phenomenology and Management (FP6 NoE project SARNET; FP7 NoE project SARNET2) - Network of Excellence for Nuclear Plant LIFE Prediction (FP6 NoE project NULIFE) - Materials Testing and Rules (FP7 project MATTER)



Examples of the network site in GNSSN

GNSSN Home Members Area Home Thematic and Regional Networks Regulatory Network Fora National Nuclear Regulatory Portal IAEA Area Search Centre

Meetings
Meeting 11-13 July 2011
[Constitute the Steering Committee of TSOF](#)

Conferences
2007
2010

Documents
Shared Documents
Final Documents

Lists
Calendar
Tasks
TSO Contacts

Discussions
TSO Team Discussion

Sites
People and Groups

Recycle Bin
All Site Content




TSO Contacts

Last Name	First Name	E-mail Address
Cherie	Jean-Bernard	jean-bernard.cherie@irsn.fr
De Boeck	Benoit	benoit.deboeck@belv.be
Delattre	Dominique	D.Delattre@iaea.org
Devol-Brown	Isabelle	isabelle.devol-brown@irsn.fr
Eibl-Schwaeger	Carla	carla.eibl-schwaeger@grs.de

+ Add new item

Related Links

- European Technical Safety Organisation Network (ETSON)
- What is a Technical and Scientific Support Organization (TSO) ?
- Interview with Mr. Denis Flory, IAEA DDG of Nuclear Safety and Security

Announcements
1st Meeting of the Steering Committee of TSOF NEW
by HEITSCH, Matthias 3/30/2012 3:13 PM

The first meeting of the Steering Committee of TSOF will be held at GRS offices in Berlin, 6-7 September 2012.



Working areas of the forum

- **Draft a Safety Guide on TSOs**
The need to write a new Safety Standard or Safety Report on the role and spectrum of activities of TSOs was recognized.
- **Identify and share lessons learned from the Fukushima accident.**
- **Feedback on the use of IAEA Safety Standards**
- **Liaison to other networks and forums**
e.g. Regulatory Cooperation Forum
- **Training and tutoring**
A catalogue of training and tutoring activities related to TSOs shall be established.
- **Organize the next TSO Conference 2014 in China**



General activities

- Further communication and visibility of the forum to international TSOs: **The forum is open to TSOs from all interested Member States through official nomination.**
- Expand links to other networks like ETSON.
- Improvement of forum representation in the GNSSN network.

