Call For Papers

Abstracts and Papers: On-line Submission
Go to: www.sfen.fr and click on the GLOBAL 2009 link.

Abstract Due: December 15, 2008

Congress held in cooperation with:
- the International Atomic Energy Agency (IAEA)
- the OECD Nuclear Energy Agency (NEA)

Organized by the French Nuclear Energy Society (SFEN)
With the technical support of:
- the American Nuclear Society (ANS)
- the European Nuclear Society (ENS) and its member societies
- the Atomic Energy Society of Japan (AESJ)

General Chair: Bernard BIGOT, High Commissioner for Atomic Energy, France
“The Nuclear Fuel Cycle: Sustainable Options and Industrial Perspectives”

GLOBAL 2009 will be the ninth bi-annual scientific world meeting on the Nuclear Fuel Cycle (NFC) that started in 1993 in Seattle. This meeting has established itself as a dedicated international forum for experts, to provide an overall review of the status and new trends of research applications and policies related to the fuel cycle. The international nuclear community is actively developing advanced processes and innovative technologies that enhance economic competitiveness of nuclear energy and ensure its sustainability, through optimized utilization of natural resources, minimization of nuclear wastes, resistance to proliferation and compliance with safety requirements. In this context, and under the profound evolutions concerning energy supply, GLOBAL 2009 will be a great opportunity for sharing ideas and visions on the NFC. Special emphasis will be placed on the results of the international studies for developing next generation systems. GLOBAL 2009 will highlight the technical challenges and successes involved in closing the NFC and recycling long lived nuclear waste. It will be also an excellent occasion to review and discuss social and regulatory aspects as well as national plans and international policies and decision affecting the future of nuclear energy. This meeting will provide a forum for the exchange of the newest ideas and developments related to the initiatives at of establishing an acceptable, reliable and universal international non proliferation regime.

- GLOBAL 2009 will be the international event not to be missed in 2009 for those who are involved in current nuclear programs and who are preparing the basis for the coming growth of nuclear power worldwide.
- A major international scientific event, the largest dedicated forum for experts and managers implicated in the Nuclear Fuel Cycle, from the mine to the recycling and disposal.
- More than 500 delegates are expected from all over the world during four conference days in Paris, September 6-11, 2009.

The GLOBAL 2009 Conference will be organized in coordination with the LWR Fuel Performance Meeting / Top Fuel 2009. That would lead to a common opening session, some common technical presentations, a common exhibition and common social events. A special Call for Papers of TOP FUEL will be issued in September 2008.

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<th>Specific Tracks:</th>
<th>Conference Office:</th>
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<td>1- Fuel Performance, Reliability and Operational Experience</td>
<td>French Nuclear Energy Society (SFEN)</td>
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<tr>
<td>2- Transient Fuel Behaviour and Safety Related Issues</td>
<td>Contact: Sylvie Delaplace <a href="mailto:sdelaplace@sfen.fr">sdelaplace@sfen.fr</a></td>
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<td>3- Advances in Water Reactor Fuel Technology</td>
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<td>4- Innovative Fuel Design and Core Management: R&amp;D for LWR Fuel in the next 30 Years</td>
<td>Program Committee Chair: Ralf Güldner (AREVA) Michel Debes (EDF)</td>
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Visit the Web Site to know more at: www.sfen.fr

Mark your calendars!

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<th>Sunday, September 6</th>
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<td>Events Welcome Reception</td>
<td>GLOBAL 2009 Conference &amp; Exhibition</td>
<td>TOP FUEL 2009 Embedded Topical Meeting - LWR Fuel Performance Meeting -</td>
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The technical program will consist of invited plenary and focused in-depth technical sessions. The technical sessions will be organized along specific areas of technical interests listed below.

**Global- 1. Front end of the fuel cycle.**
Status and prospects on technologies and processes for ore prospection, uranium mining, uranium conversion and uranium enrichment.

**Global- 2. Current spent nuclear fuel recycling.**
Industrial experience and on-going developments on reprocessing and MOX fuel. Recycling of reprocessed uranium.

**Global- 3. Waste management technologies and strategies.**

**Global- 4. Concepts for transportation and interim storage of spent fuels and conditioned waste.**
Industrial experience and on-going developments.

**Global- 5. Nuclear waste repository developments.**

**Global- 6. Advanced technologies for fuel recycling including partitioning of specific radionuclides.**
R&D on aqueous, pyrochemical and other reprocessing technologies for the recovery of recyclable nuclear material. Innovative fuel fabrication processes for the recycling of nuclear material.

**Global- 7. Advances in reactor cores design and in-core fuel management.**
Advanced reactor cores design and performances, including optimization of safety features. New developments in Gen-III and Gen-IV reactors.

**Global- 8. Transmutation systems for long lived radionuclides.**
Reactor and fuel developments for transmutation, including ADS (Accelerator driven systems) or other innovative technologies such as molten salt reactors.

**Global- 9. Developments in nuclear non proliferation technologies, policy and implementation.**
Technologies to enhance resistance to proliferation of the nuclear fuel cycle. Institutional issues. International initiatives.

**Global- 10. Sustainable fuel cycle options and nuclear material management.**
Strategies for nuclear energy system developments: national and regional policies, international perspectives, scenario studies, system assessments (including integrated fuel cycle concepts).
Nuclear material supplies: perspectives on natural resources availability, surplus weapon grade material disposition and utilization. Thorium cycle.

**Global- 11. Dismantling, Decommissioning, material and waste management.**
Technical and economical issue in D&D. Material and waste management of D&D activities. Associated R&D.

**Global-12. Crosscutting issues, policies and programs.**
Safety aspects (international stakes, harmonization...).

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**Abstract Submission:**
Authors should submit a one-page 400 word abstract (text only) with name, affiliation, address, phone, fax and email information -
Upload your text at: www.sfen.fr

**Paper Deadlines:**
Abstract Due .......... December 15, 2008
Draft Paper Due .......... February 28, 2009
Review Notification ........ April 15, 2009
Final Paper Due .......... May 15, 2009

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2. Current spent nuclear fuel recycling.
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   Jean-pierre Bariteau (MELOX) - Dominique Warin (CEA) - Susumu Mukohara (JNFL) - Kee Chan Song (KAERI) - James Laidler (ANL)

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   Michel Debès (EDF) - Kwon Hoie Koo (KHNP) - Gall H Marcus (USA) - Terry A Todd (INL) - Alan Wattar (USA)

5. Nuclear waste repository developments.
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   Tetsuo Fukasawa (HITACHI-GE) - Jong Won Choi (KAERI) - James Bresse (DOE)

6. Advanced technologies for fuel recycling including partitioning of specific radionuclides.
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   Thierry Duquesnoy (AREVA NP) - Dominique Ochem (CEA) - Hideyuki Funasaka (JAEA) - Han Soo Lee (KAERI) - Allen Todd (INL) - Robert W Benedict (INL) - Michael Lineberry (Idaho State U) - Buzz Savage (USA)

7. Advances in reactor core designs and in-core fuel management.
   Claude Renault (CEA) claude.renault@cea.fr
   David Le Carpentier (EDF) - Yutaka Sagayama (JAEA) - Hubert Flocard (CNRS) flocard@csnsm.in2p3.fr
   Marc Delpech (CEA) - Claude Garzénne (EDF) - Tadafumi Koyama (CRIEPI) - Dohee Hahn (KAERI) - Emory Collins (ORNL) - Dyck Gary (AEC)

8. Transmutation systems for long lived radionuclides.
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   Marc Delpech (CEA) - Claude Garzénne (EDF) - Tadafumi Koyama (CRIEPI) - Dohee Hahn (KAERI) - Emory Collins (ORNL) - Dyck Gary (AEC)

9. Developments in nuclear non proliferation technologies, policy and implementation.
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   Michel Masson (CEA) - Tadashi Inoue (CRIEPI) - Jung Won Lee (KAERI) - William Charlton (TAMU) - Benjamin J Cross (SRNL) - Tomas J Sanders (SNL) - Ned A Wogman (PNNL)

10. Sustainable fuel cycle options and nuclear material management.
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    Jean-Michel Delbecq (EDF) - Massimo Salvatores (CEA) - Toru Ogawa (JAEA) - Il Soon Hwang (SNU) - Mike Goff (INL) - Andrew Kadak (MIT) - Rob Versluis (DOE)

11. Dismantling, Decommissioning, material and waste management.
    Jean-Guy Nokhamzon (CEA) jean-guy.nokhamzon@cea.fr
    Jerry M Hopwood (AEC) - Hattori Yamana (Kyoto U) - Jin Ho Park (KAERI) - Brian K Hajek (Ohio State U)

12. Crosscutting issues, policies and programs.
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