ICEM’11
The 14th International Conference on Environmental Remediation and Radioactive Waste Management (ICEM)

Date: September 25-29, 2011
Location: Reims, France
Reims Champagne Congrès (RCC) Centre

ORGANIZED AND SPONSORED BY

ASME Web site: www.asmeconferences.org/icem2001
SFEN Web site: www.sfen.fr/icem-11
Welcome to ICEM’11

The Fourteenth International Conference on Environmental Remediation and Radioactive Waste Management (ICEM’11) is a global information exchange, featuring engineering and scientific solutions to environmental problems. More than 600 scientists, engineers, managers, project directors, business representatives, equipment vendors and government officials from more than 30 countries are expected to attend the conference, held this year in Reims, France.

The Environmental Engineering and Nuclear Engineering Divisions of the American Society of Mechanical Engineers (ASME) have joined forces with the Société Française d’Énergie Nucléaire (SFEN) for ICEM’11. The conference and exhibition will offer a unique opportunity to foster cooperation and establish contacts with participants from many countries. Conference participants will be able to speak directly with peers who are reporting new research, initiating and managing environmental projects, establishing national and international regulations and applying new methods and equipment. ICEM’11 is expected to feature 300 technical papers, research presentations and discussions of field applications. A diverse group of international organizations will be exhibiting related technologies and services.

We have organized this Advance Program so you can easily find additional details on registering for the conference as well as technical tours and social programs. Take a look inside for details. We are sure you will find something of interest. We look forward to seeing you in Reims.

Honorary Co-Chairs
Mr. Christophe Béhar, Nuclear Energy Director, CEA (FRANCE)
Mr. François-Michel Gonnot, Chairman of the Board, ANDRA (FRANCE)
Ms. Neile Miller, Principal Deputy Administrator, US DOE NNSA Program (USA)
Dr. Ines Triay, Assistant Secretary, US DOE EM Program (USA)
Dr. Tero Varjoranta, Director, Division of Nuclear Fuel Cycle and Waste Technology, IAEA (Austria)

Conference General Co-Chairs
Anibal Taboas, for ASME (USA)
Dominique Greneche, for SFEN (FRANCE)

Conference Manager
Gary Benda, for ASME (USA)

We thank the following companies for sponsoring events at the ICEM’11. (Only the Sponsors at the time of printing are listed.)

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— Our Bronze Sponsor —
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Conference and Opening Session Location
ICEM’11 will be held at the Reims Champagne Congrès (RCC) Centre in the Champagne-Ardenne region of northeastern France. Reims is approximately one hour east of the Charles De Gaulle Airport in Paris -- easily accessible by car and rail. Reims promises a unique experience as one of France’s most vibrant cities. Reims has three sites listed as UNESCO World Heritage. It also offers elegant Art Deco facades, refined Champagne Houses, and a relaxed atmosphere which prevails in the streets and café-terrace. Additional details are available at http://reims-tourism.com. The RCC Centre is located at: 12 Boulevard Général Leclerc, 51722 Reims Cedex - France.

The Opening Session will take place at the RCC on Monday morning with the keynote presentations setting the stage for this year’s conference. Following the Opening Session, lunch will be served in the Exhibit Hall to all conference participants.

City of Reims
Reims, the home of champagne (the most celebrated and celebrating wine in the world), is the main city of the champagne area. It is a charming city, and one that the French hold dear to their hearts. In Reims stands one of the most beautiful buildings of the Middle Ages in Europe, one that is filled with history: Notre-Dame de Reims. The baptism of Clovis, around the year 498, gave birth to the Kingdom of the Franks, where the cathedral now stands. In 816 at the cathedral took place the first royal coronation in Reims, the one of Louis le Pious. This exceptional event explains the choice of Reims as the coronation city. Almost all French kings were crowned there for about 1,000 years.

The Reims city centres are easily accessible by rail and car and are fairly small and easily walkable, with many streets for pedestrians only. The Reims Champagne Congrès (RCC) Centre is easily accessed by foot or car from nearby hotels.

Reims, and surrounding Épernay and Ay are the main places of champagne production. Many of the largest champagne producing houses, referred to as les grandes marques, have their head office in Reims. Most are open for champagne tasting and tours by appointment only. Champagne is aged in the many chalk caves and tunnels, some originating in the Roman period, located deep inside the ground.
Contacts For More Information

For questions on the conference organization, sponsorship, vendors or international liaisons contact:

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Phone: +1(803) 345-2170  
E-mail: GBenda_use@hotmail.com

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European Event Manager  
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E-mail: TaboasA2@ASME.org

Dominique Grenêche  
General Co-Chair  
Phone: +33 1 69 01 62 15  
E-mail: dgreneche.nuclearconsulting@orange.fr

For questions concerning Reims, France and other local aspects, conference facilities, social programs, vendor arrangements, European Union (EU) vendor exhibition or EU conference registration contact:

Sylvie Delaplace  
European Coordinator, SFEN  
5 rue des Morillons  
F75015 Paris  
Phone: +33 (0)1 53 58 32 16  
Fax: +33 (0)1 53 58 32 11  
Email: icem11.france@sfen.fr

For questions on the Technical Program, non-EU conference registration or non-European Union vendor exhibition contact:

Shari Brabham  
CISS Corporation  
P.O. Box 57296  
Tucson, AZ 85732-7296  
Phone: +1(520) 571-6047  
Fax: +1(520) 445-8011  
E-mail: cisscorp@gmail.com

For questions on the submission of abstracts or papers contact:

Stacey Cooper  
ASME Publishing  
Three Park Avenue, 22S1  
New York, NY 10016-5990  
Phone: +1(212) 591-7788  
Fax: +1(212) 591-7292  
E-mail: CooperSL@asme.org

Visit the ICEM Web Page for up to date information at www.asmeconferences.org/icem2011  
www.sfen.fr/icem-11

ICEM’11 Organizing Societies and Cooperating International Agencies

U.S. Societies
The Environmental Engineering Division and the Nuclear Engineering Division of ASME are the primary organizing societies of the ICEM conference. Since its inception in 1987, the original as well as current objective has been to conduct international conferences on key environmental management topics in locations convenient to large numbers of technical experts from emerging environmental programs. ASME is committed to continue to provide this global conference wherever the greatest need and interest are shown.

ICEM’11 is also organized to support the US Department of Energy (US DOE), the US Nuclear Regulatory Commission (US NRC) and the US Environmental Protection Agency (US EPA) along with several other major international technical societies and governmental organizations. Each agency has had significant involvement with the ICEM series. The US DOE is responsible for managing the wastes and cleaning the sites from the past US government nuclear operations, thus the US DOE staff has viewed this conference series as an opportunity to identify new technical solutions and to provide information on the results of their programs to the international community. Federal regulatory participants from both the US EPA and US NRC have also been active in program development and participation.

European Societies
The ICEM conferences have always been conducted jointly with a major local technical society and other co-societies in the host country. For ICEM’11, the Société Française d’Energie Nucléaire (SFEN) will help partner in the organization of this conference along with OECD (Organisation for Economic Co-operation and Development) and the Nuclear Energy Agency.

Cooperating International Agencies
Since the beginning, the ICEM meetings have been held in cooperation with major international organizations responsible for programs and research in radioactive waste management and environmental remediation fields. The International Atomic Energy Agency (IAEA) has been assisting this conference in several ways. Their support has included assistance in the technical program preparation, presentation of technical papers and other agency information, promotion of the conference to their member states, and providing financial and technical assistance.
Guest Program

ICEM will sponsor a Guest Welcome Reception on Monday morning at 8:00 to be acquainted with and review Reims options hosted by Dianne Benda. This will be open to all guests. Guests are primarily family members, over the age of 16, of ICEM paid registrants.

All Tours unless otherwise noted are accompanied by an English Speaking guide and will depart from and return to the RCC.

Sunday, 25th September

Golf Tournament at Le Golf de Reims Champagne

Golf de Reims Champagne is an international golf course to the extent of professional and amateur champions, open every day of the year. Golf is located in the center of the Champagne vineyards you enjoy the blessings of nature and knowledge of our great houses of Champagne.

Golf de Reims has many elevated greens, defended by bunkers and the greens fast enough (2.50 to 3.00 m in a speed-meter). The 6,600-yard, par-72 golf course was founded in 1928 and its maturity shows through, with high quality putting surfaces and great conditioning of tees and fairways.

Materials required for each participant 1) Handicap number indicating your level depending on a journey. It takes into account the index of the player and the level of difficulty of the course, depending on the selected departure areas and 2) Golf equipment.

The course is located in a sleepy village just under 10 minutes from Reims. All in all, this course provides a very pleasant game of golf for beginners and experts alike. Prices including transportation ... transportation arrangements. Additional information can be found at http://www.golf-de-reims.com/diaporama.html.

Guest Tours

Plan to come early for the weekend and enjoy the beauty and hospitality France has to offer. Centrally located, Reims it is an easy train ride to and from Paris, Belgium, and Amsterdam. Many local towns and historical sites are just minutes away.

Guided Tour #1- Day Tour to Paris, 9:00am to 5:00pm, 100 € ($140 USD)

On Sunday, we are organizing a group to travel by train from Reims to Paris and enjoy the local area. At the Paris East train station, we will board a Hop On – Hope Off bus for a 4 hour city tour. We will hop off at Notre Dame, The Eiffel Tower and at the Place d’Concorde and you will be able to have lunch on one of the stops on your own. After our tour of the highlights of Paris we will re-board the train at 4:00pm in time to return to the RCC for the Sunday reception, Cost include roundtrip train, guide and tour bus.
Monday, 26th September

Guided Tour #2A - Walking Tour of Reims, 9:00 – 12:00 pm, 20 € ($28 USD)

Circus School, Paris and Mars Gates, Forum and Royal Square, Notre Dame with Guide. Sights include:

- Hard Built Circus and Riding School - 19th century, now renovated and used for shows
- The Paris Gate - built for the coronation of Louis XVI in 1775
- The Gate of Mars - one of the four arches built ca. 200 AD to mark the four main thoroughfares of Durocortorum, capital of the Roman province of Belgica.
- The City Hall - typical of 17th century architecture. The facade bears an equestrian statue of King Louis XIII in its centre
- The Forum Square - located on the site of the antique forum, this square was the market place, Gallo-roman Cryptoporticus (semi-subterranean gallery) and the Le Vergeur House Museum,
- The Royale Square - ca. 1760, the square was built by the population as a tribute to Louis XV. In its centre, stands a statue of the king surrounded by a series of symbolic decorative figures by Pigalle.
- The Notre-Dame Cathedral - a master-piece of gothic art, the Cathedral of Our Lady was started in 1211. It was the Cathedral of the Coronations for French Kings in memory of the baptism of Clovis by Saint Remi on Christmas Day 498

Guided Tour #2B - Walking Tour of Reims, 2:15 – 6:00 pm, 35 € ($49 USD)
The Basilica St-Remi and Champagne Cellars Taittinger, with Guide. Sights include;

- Basilica Saint-Remi - The largest Romanesque pilgrimage church in northern France. It was built as a shrine to Saint Remi. The nave was consecrated in 1049 whereas the apse was built in the late 12th century.
- Visit of Champagne Cellars – Taittinger - Located in the heart of Reims, between City Hall and the Cathedral, the Demeure des Comtes de Champagne makes the historical heritage of the city. Built in the 13th century, and partially destroyed during the First World War, it was restored under the direction of the Fine Arts Ministry. The tour will be concluded by a Champagne tasting. Price includes entrance fee to the champagne house.

Tuesday, 27th September

Guided Tour #3 - Visit of the Champagne Vineyard by Coach and Lunch Cruise near Epernay on the Marne River, 9:30am – 5:00pm 80 € ($112 USD)

- Travel through the Champagne Vineyards - For the past three centuries, the passion of the men of Champagne and their respect for local traditions have resulted in the exceptional wines that are famous around the world for their subtle and delicate bouquet.
- Meeting at Cumières for Lunch Cruise - The jetty is located in the small village of Cumières, near Epernay. You will sail on a sternwheeler between the vineyard covered slopes and the viticul villages nested on hillsides. After the lock, different species of birds will escort you to the doors of the Valley of the River Marne. All the history of the region seems to spring at each turn of the river: the castle of the famous Veuve Clicquot, Dom Perignon, the revolt of the wine-growers in 1911, the Duchess of Uzes, and so on.
- End Of The Cruise And Travel To Hautvillers Village - On the outskirts of Epernay, a small village known around the world thanks to a Benedictine monk named Dom Péringon, is perched on sunny vine planted hillsides. The legend of Dom Péringon adds an intangible but no less genuine aura to Hautvillers. He is said to have been able to make a “grey” or red still Champagne wine into a sparkling wine of perfect clarity. Dom Perignon is buried in the village church. The tour will include a champagne toasting.

Wednesday, 28th September

Guided Tour #4 - The Old City of Troyes and Shopping Outlet by Coach, 9:00am -5:30pm 70 € ($98 USD)

- Troyes - Travel by bus to see the Champagne Fairs and the Saint-Jean-au-Marché quarter. It is mainly in the urban fabric that the memory of the great Champagne Fairs can be found, fairs that were held in the city of Troyes during the festival of Saint Vincent and Saint Remi. The confusion of streets and small squares with closed courtyards give an idea of the city at this period.
- Cathedral of Saint Peter and Saint Paul - This cathedral was built between the 13th and 15th centuries and is characteristic of the Gothic style. Only the Saint Peter tower was completed - the Saint Paul tower has remained unfinished since 1545.
- The Saint-Pantaleon Church, the Parish of the Polish Community of Troyes - Built on the site of a synagogue (according to tradition), a genuine museum of 16th century Troyes statuary, since it was the hiding place for statues saved during the French Revolution. Some were created by Dominique le Florentin, an artist from Troyes and decorator for François 1st.
- Shopping - Factory and Trade Outlets -Troyes Designer Outlet is the first of McArthurGlen’s discount outlet malls in France, having opened in 1995. It’s not surprising that McArthurGlen chose this city as the location for their designer outlet as Troyes’ association with textile manufacture and knitting go back to the 12th century. The Marque Avenue and Marques City outlets will also be visited. Here you’ll find 210 top fashion names.

Thursday, 29th September

Guided Tour #5 - Walking Tour of Reims, 2:15 – 6:00 pm, 35 € ($49 USD).
The Basilica St-Remi and Champagne Cellars Taittinger with Guide. This is the same tour as Monday afternoon Tour #2B, but provides the guest in sessions all week a second opportunity to see and taste at little of Reims and the Champagne region.
Monday Morning Opening Session at the RCC
The Opening Session will begin Monday morning with the keynote presentations setting the theme for this year’s conference. Coffee will be served in the exhibit hall from 08:00 until the program begins at 9:00. The welcome speakers and keynote speakers are:

- Mr. François-Michel Gonnot
  Chairman of the Board, Andra (FRANCE)
- Dr. Ines Triay
  Assistant Secretary, US DOE EM Program (USA)
- Mr. Christophe Béhar
  Nuclear Energy Director, CEA (FRANCE)
- Ms. Neile Miller
  Principal Deputy Administrator, US DOE NNSA Program (USA)
- Dr. Tero Varjoranta
  Director, Division of Nuclear Fuel Cycle and Waste Technology, IAEA (AUSTRIA)

Poster Sessions
The conference technical program will contain three major Poster Sessions on Monday - Wednesday arranged from the five Technical Programs. Several additional posters will be submitted to the Oral Sessions and not be possible during the Oral Sessions. The best three Posters from each Track will be displayed on Thursday morning.

Special Panel Sessions
Listed below are a brief summary on the ICEM2011 panels. A more comprehensive and detailed description and the panelists are listed in the Technical Program section with each Session.

EM - Track 5: Approaches for International Collaboration (Session 2)
This panel will provide an overview of the different approaches and initiatives used to promote international collaboration in environmental remediation and radioactive waste management, with a focus on the challenges and opportunities unique to each country and organization.

D&D - Track 3: Lessons Learned: Chernobyl Twenty-Five Years Later - TMI & Other Experiences (Session 3)
This panel will discuss the status, challenges, and lessons learned from confinement activities and decommissioning activities as well as lessons learned from Chernobyl and other nuclear industry recovery experiences such as Three Mile Island.

LLW - Track 1: Emerging Issues in the Management of L/ILW (Session 10)
This panel will focus on strategies for the management of all low and intermediate level waste (L/ILW). Based on experience in different national programs, it will discuss various options and their merits for managing L/ILW.
EM - Track 5: Global Partnerships in Environmental Management – Part 2 of 2 (Session 54)
This panel will provide a global perspective on the status of the clean-up of nuclear legacy sites in the North West and Far East Russia and lessons learned by key participants of the Global Partnership Program.

Conference Proceedings on CD-ROM
Each conference registrant will receive the conference proceedings on a CD-ROM mailed approximately six months after the conference. Additional proceedings may be ordered at an additional charge, by writing to the ASME Order Department, 22 Law Drive, P.O. Box 2300, Fairfield, NJ 07007-2300, U.S.A., Telephone 1-800-THE-ASME.

Daily Speaker/Session Co-Chair Briefing
A morning briefing will be provided to all Speakers, Panelists, Poster Presenters, and Session Co-Chairs on the day of their session. The briefing will include coffee, and tea and will be served at the conference center. Most hotels have breakfast included in the cost of the room, but the speaker’s briefing will give you the time for final arrangements before your session. The attendance at the briefing will provide an opportunity for the Session Co-Chairs to meet with the speakers, and for all to discuss the topics they will be addressing.

Coffee/Tea Breaks
Complimentary coffee and tea will be served for all meeting participants in the Exhibit Hall during the morning and the afternoon breaks each day of the conference.

Lunch Periods
Lunch will be served in the Exhibit Hall on Monday, Tuesday and Wednesday. Luncheon hours are from 12:30-1:40pm. Paid full lunch registration includes the luncheon price for all three days. If you prefer, there are also several local restaurants near the conference center. A listing of local restaurants can be found at http://www.reims-tourisme.com/a copy of which will be given to delegates upon arrival.

AV Office / Speaker Ready Area
The AV Office/ Speaker Ready area will be available for speakers to load and review their PowerPoint slides. This area will be open from Monday to Wednesday from 7:00am - 5:00pm and Thursday from 7:00am - 12:30pm at the RCC Centre.

Technical Tours on Friday
Three technical tours are planned to see Andra and Chooz D&D project radioactive waste management programs first hand. The tours will take place immediately after the conference on Friday. Please Note: Tours will depart on Friday at 7:00 am at the RCC centre. Tours are based on a minimum attendance and will be evaluated on August 26 on their viability.
All technical tours for ICEM’11 are space limited and require early security clearances. Paperwork for security clearances must be received by August 26, 2011. We strive to keep the costs of these excellent tours at a minimum resulting with many on our waiting lists. Regrettably, for our past ICEM tours, we have had numerous last minute cancellations with insufficient time to process the security clearance for individuals on the waiting list. To assist space for the attendees who strongly desire to attend, we are implementing for ICEM’11 an additional tour deposit of 100 € ($140 USD). A credit for the additional amount will be sent after the conference if you attend your technical tour but will be forfeited with the tour fee if you cancel. The cancellation fee will be waived for justified cancellations approved by the ICEM Finance Committee.

For additional information on any of these tours please contact: Sylvie Delaplace, European Coordinator French Nuclear Energy Society (SFEN) Phone: +33 (0)1 53 58 32 16 • Fax: +33 (0) 1 53 58 32 11 Email: icem11.france@sfen.fr

Friday - Technical Tour 1A: Reims to Andra, LLW Site Tour (7:00am to 7:00pm) Return to Reims, 120 € ($168 USD). Cost includes lunch and transportation from the RCC.

• The Disposal Facility For Low-Level And Intermediate-Level (LIL) Waste - The LIL-Waste Disposal Facility is located in the Aube District. Spreading over an area of 95 ha, it is the second disposal facility to be built in France. The facility, which accommodates LIL. short-lived waste, has been operated by Andra since 1992. All residues intended for disposal here are conditioned in concrete or metal packages, before being emplaced in reinforced-concrete structures. Once the total authorised capacity will be reached, the facility will continue to be monitored for at least 300 years.

• The Disposal Facility For Very-Low-Level (VLL) Waste - Implemented since 2003 only a few kilometres from the LIL Facility, the VLL-Waste Disposal Facility extends over an area of 45 ha. Residues here originate essentially from dismantling operations and are disposed of in shallow cells excavated at a few metres’ depth within the clay formation.

Friday - Technical Tour 1B: Reims to Andra, HLW Site Tour (7:00am to 7:00pm) Return to Reims, 120 € ($168 USD). Cost includes lunch and transportation from the RCC.

• The Underground Laboratory - Implemented in the village of Bure (Meuse District) since 2000, the Underground Laboratory constitutes a unique tool in France. Its drift network, located at about 500 m deep into the ground, is designed for scientists to observe and to study the geological environment directly and in real-time. Experiments have been conducted here since 2004 in order to acquire information on the properties of the surrounding rock and to understand how it will react to the construction of installations and to the disposal of radioactive waste.

• Saudron’s Technological Centre - The purpose of the Technological Centre, which is located in the nearby village of Saudron (Haute-Marne District), is to allow the public to discover the project for a deep geological repository through an exhibit of various industrial mock-ups, robots and prototypes realised by Andra. In parallel to scientific studies, Andra is also conducting technical investigations notably on equipment likely to be implemented in the future deep geological waste repository.

Friday - D&D Technical Tour B: Reims to Chooz (7:00am to 7:00pm) - Return to Reims; 120 € ($168 USD)

Standing on the banks of the River Meuse in the Ardennes, Chooz nuclear power station has three pressurized water reactors (PWR). Two reactor units are currently in operation (Chooz B), while the first unit, Chooz A, was permanently shut down in 1991. The very first PWR unit in France, Chooz A is the product of a partnership between EDF and a consortium of Belgian power utilities, who decided to set up the SENA (Société d’Energie Nucléaire des Ardennes). With a capacity of 320 MW, plant operations started in 1967 and ended in 1991.

At the end of operations, the plant will remain under surveillance for several years. Watersheds inside the caverns will be collected and tested until their radioactivity levels enable them to be discharged without being tested first. Once these levels are reached, the final components remaining in the nuclear auxiliary cavern and the waste treatment facility will be dismantled. Buildings forming part of the outside platform will then be decontaminated and demolished, and the site will be completely regenerated. The site’s future Decommissioning operations are expected to be completed by 2020-2025.

Hotel/Restaurant Listings

Hotel Listing

ICEM has teamed with the Reims Tourism Board to assist in room accommodations. Participants who wish to make a reservation for hotel accommodations with can apply by filling out the registration form listed on-line at www.asmeconferences.org/icem2011. These reservations should be made as soon as possible but no later than August 26, 2011. After this date we can no longer guarantee hotel reservations since September is the harvest season and a very busy period for all hotels in Reims. The approximate rates listed below also included VAT and breakfast each morning.

On the hotel chart you will see a number (#) listed beside each hotel name, this number represents a correlation number on the map located on page 21. This map shows where each hotel is in proximity to the Reims Champagne Congres Center. Also listed on this chart is a star rating system as recommended by the Reims Tourism Board (the more stars, the better the accommodation and amenities are).

Reims Tourism Board will require a credit card to secure your hotel arrangements. A sufficient number of rooms will be provided at hotels near the conference site. Please indicate your hotel preferences. Your room will be assigned on a first-come, first served basis. If your room request is unavailable, you will be assigned to your next choice. They will send you a confirmation of your reservation.

The ICEM’11 Committee is not responsible for any violations of any ordinances, and all other claims of losses, costs, and damages arising from the attendee’s occupancy at any of the local hotels.
Restaurant Listing - Eating out in Reims City Region

During the day, delegates can enjoy the numerous bars and restaurants down the avenue from the conference centre. During the night, come celebrate with us and indulge in Reims’s best restaurants, cafes and bars. The area continues to astound with new and ever evolving imaginative food offerings which highlight the fantastic diversity this city has to offer. If you cannot decide where to eat check out http://www.reims-tourism.com which can guide you to some of the best places to eat in the area.

<table>
<thead>
<tr>
<th>#</th>
<th>HOTEL NAME / ADDRESS</th>
<th>STATUS</th>
<th>RATE / WALKING TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Best Western – Hotel de la Paix 9 rue Buirette, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double-Twin: 160 € / night Headquarter Hotel under 5 minutes</td>
</tr>
<tr>
<td>06</td>
<td>Holiday Inn Garden Court 46 Rue Buirette, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double-Twin: 150 € / night 5 minutes</td>
</tr>
<tr>
<td>22</td>
<td>Express by Holiday Inn Boulevard Paul Doumer 21, 51100 Reims</td>
<td>★★</td>
<td>Single-Double-Twin: 95 € / night 5 minutes</td>
</tr>
<tr>
<td>07</td>
<td>Mercure Cathedrale Hotel 31 Boulevard Paul Doumer, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double: From 149 € to 154 € / night 8 minutes</td>
</tr>
<tr>
<td>05</td>
<td>Grand Hotel Continental 93 Place Drouet d’Erlon, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double-Twin: From 68 € to 155 € / night 10 minutes</td>
</tr>
<tr>
<td>13</td>
<td>Quality Hotel 37 Boulevard Paul Doumer, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double-Twin: From 115 € to 135 € / night 10 minutes</td>
</tr>
<tr>
<td>16</td>
<td>Bristol Hotel 76 place Drouet d’Erlon, 51100 Reims</td>
<td>★</td>
<td>Single: 89 € / night 10 minutes</td>
</tr>
<tr>
<td>21</td>
<td>Hotel du Grand Nord 75 Place Drouet, 51100 Reims</td>
<td>★★</td>
<td>Single-Double-Twin: 81 € / night 10 minutes</td>
</tr>
<tr>
<td>20</td>
<td>Hotel Crystal 86, place Drouet d’Erlon, 51100 Reims</td>
<td>★★</td>
<td>Single-Double: From 68 € to 69 € / night 10 minutes</td>
</tr>
<tr>
<td>14</td>
<td>Grand Hotel de l’Univers 41 Boulevard Foch, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double-Twin: From 102 € to 112 € / night 15 minutes</td>
</tr>
<tr>
<td>04</td>
<td>Kyriad Reims Center 7-9 rue du Général Sarrail, 51100 Reims</td>
<td>★★★</td>
<td>Single: 95 € / night 15 minutes</td>
</tr>
<tr>
<td>23</td>
<td>Ibis Centre Reims 28 boulevard Joffre, 51100 Reims</td>
<td>★</td>
<td>Single-Double-Twin: 79 € / night 15 minutes</td>
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<tr>
<td>12</td>
<td>Hotel Porte Mars 2 place de la République, 51100 Reims</td>
<td>★★</td>
<td>Single-Double-Twin: From 115 € to 130 € / night 20 minutes</td>
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<tr>
<td>29</td>
<td>Résidence Clairmarais 25 Rue Edouard Mignot, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double: From 68 € to 81 € / night 25 minutes</td>
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<tr>
<td>03</td>
<td>Grand Hotel des Templiers 22 rue des Templiers, 51100 Reims</td>
<td>★★★★</td>
<td>Single-Double-Twin: 190 € / night 25 minutes</td>
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<tr>
<td>28</td>
<td>Suite Hotel 1 rue Edouart Mignot, 51100 Reims</td>
<td>★★★</td>
<td>Single-Double-Twin: 130 € / night 25 minutes</td>
</tr>
</tbody>
</table>

Exhibition and Sponsorship

Exhibition

Attending this conference as an exhibitor will give you all the advantages gained from the conference experience, plus the chance to promote your latest products and services to a highly specialized and targeted audience of delegates. This is a significant opportunity to enhance your international market and highlight your company with international experts including scientists, engineers, technology developers, equipment suppliers, government official, utility representatives and owners of environmental problems. These attendees are the individuals who will purchase, and/or recommend products and services for purchase, for their companies and clients. We expect over 600 international experts, from more than 30 countries. Please Note: Space is Limited.

The Sponsorship and Exhibition Brochure can be found on our web page at www.asmeconferences.org/icem2011

For more information, please contact:

Sylvie Delaplace, European Coordinator, SFEN
Phone: +33 (0)1 53 58 32 16; Email: icem11.france@sfen.fr

Note: Each Exhibitor Attendee must pay for a Technical Registration unless you are utilizing one of the complimentary pass (passes) provided with your booth and/or sponsorship package.

Travel Information

Passport and Visa Information

All foreign visitors entering France must possess valid passports. In addition, the visitors may need a visa. The organizers advise the participants from the countries other than those listed below to consult with the France Embassy or a local diplomatic mission for further information. ICEM will assist in Letters of Invitations until July 31st. After that date, it is doubtful that approval will be granted for late issued invitations. Visa is not required for the participants from the following countries: Andorra, Argentina, Australia, Austria, Bahamas, Barbados, Belgium, Canada, Chile, Colombia, Costa Rica, Croatia, Cyprus, Czech Republic, Denmark, Dominican Republic, El Salvador, Finland, Fyrom, Germany, Greece, Guatemala, Guyana, Honduras, Mexico, Hungary, Iceland, Ireland, Israel, Italy, Lesotho, Liechtenstein, Luxembourg, Malta, Mauritius, Netherlands, New Zealand, Norway, Portugal, San Marino, Singapore, Slovenia, Spain, Suriname, Sweden, Switzerland, Tunisia, Turkey, United Kingdom, United States of America, Uruguay.

Transportation by Air to Reims, France

The Paris Charles De Gaulle International Airport provides direct access to and from major European and North American cities and is a 50 minute drive from Reims. Reims is also located 30 mins. from the Paris Roissy international airport. Paris airports: www.adp.fr

Several companies also offer connections to these airports. Reims-Prunay airdrome: Light business and tourist aircraft or Phone: +33 (0)3 26 49 10 92

Transportation by Rail to Reims

The easiest way to get to Reims from the airport is by train. Reims is located at the junction of the Lille - Dijon - Mediterranean and Paris - Charleville – Sedan lines with 12 daily links between Reims-Paris. A TGV high-speed train links Reims to Paris in 45 mins. Travelers coming from Lille or Paris airport arrive at Champagne Ardenne TGV station, around 3 miles (5km) outside Reims. Regular local train services connect to Reims city station. To consult the times and reserve your ticket: www.sncf.com or www.tgvosteurop.Com.
Transportation by Car to Reims

Reims is located at the crossroads of the A4-E50 (Paris - Strasbourg) and A26-E17 (Calais - Troyes - Dijon) motorways. The city has 6 motorway exits. To determine a specific route visit: www.viamichelin.com

Insurance and Liability

All participants are encouraged to make their own arrangements for health and travel insurance. Neither ASME, Société Française d’Energie Nucléaire (SFEN) nor their agents, can be held responsible for any personal injury, loss, damage, accident to private property or additional expenses incurred because of delays or changes in air, rail, sea, road or other services, strikes, sickness, weather or any other cause.

Foreign Exchange and Traveler’s Cheques

The conference secretary on-site will accept only EURs (no US$ or Traveler’s Cheques) for payment of any registration or optional ticket fees. Visa, American Express, and MasterCard are also accepted.

Acronym List

| AEA | Atomic Energy Agency                           | NDA | Nuclear Decommissioning Authority |
| ALARA | As Low As Reasonably Achievable | NEA | Nuclear Energy Agency |
| ASME | American Society of Mechanical Engineers | NED | Nuclear Engineering Division |
| BWR | Boiling Water Reactor | NEI | Nuclear Energy Institute |
| CEA | Commissariat a’l’Energie Atomique | NEPA | National Environmental Policy Act |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act | NII | Nuclear Institute |
| CH-TRU | Contact Handled- Transuranic Waste | NNSA | National Nuclear Security Administration |
| DNFSB | Defense Nuclear Facilities Safety Board | NORM | Natural Occurring Radioactive Material |
| DOE | Department of Energy | NPO | Nuclear Power Operations |
| EIS | Environmental Impact Statement | NPP | Nuclear Power Plant |
| EM | Environmental Management | NWPA | Nuclear Waste Policy Act |
| EPA | Environmental Protection Agency | OECD | Organization for Economic Cooperation & Development |
| EPRI | Electric Power Research Institute | PRA | Probabilistic Risk Analysis |
| ER | Environmental Remediation | PWR | Pressurized Water Reactor |
| FUSRAP | Formerly Utilized Sites Remedial Action Program | R&D | Research & Development |
| HEPA | High Efficiency Particulate Air | ROC | Reims Champagne Congrès (RCC) Centre |
| HEU | Highly Enriched Uranium | RCRA | Resource Conservation and Recovery Act |
| HLW | High Level Waste | RH-TRU | Remote Handled- Transuranic Waste |
| IAEA | International Atomic Energy Agency | RIV | Reactor Noise Vessel |
| IDN | International Decommissioning Network | RPV | Reactor Pressure Vessel |
| IAEA | International Atomic Energy Agency | RW | Rad Waste |
| IN | International Decommissioning Network | SFEN | Société Française d’Energie Nucléaire |
| LW | Intermediate Level Waste | SNF | Spent Nuclear Fuel |
| IPSN | Institut de Protection et de SuretéNucléaire | SRW | Solid Radioactive Waste |
| ISM | Integrated Safety Management | TEC lame | Technologically Enhanced Naturally Occurring Radioactive Material |
| JAERI | Japan Atomic Energy Research Institute | TRU | Transuranic |
| KAERI | Korea Atomic Energy Research Institute | TRUPACT | Transuranic Package Transporter |
| LEU | Low Enriched Uranium | USACE | United States Army Corps of Engineers |
| LLW | Low Level Waste | USDOE | US Department of Energy |
| LLW | Low- Intermediate Level Waste | USNRC | US Nuclear Regulatory Commission |
| LSA | Low Specific Activity | WAC | Waste Acceptance Criteria |
| M&I | Management & Integration | WIPP | Waste Isolation Pilot Plant |
| M&O | Management & Operation | WM | Waste Management |
| MOX | Mixed Uranium-Plutonium Oxide | WNA | World Nuclear Association |
Reims City Site Map

Reims Road Map and Hotel Locations

Reims Train Station to Reims Champagne Congrès (RCC) Centre (15 minute walk)
Level 1 — Registration, Exhibits, Poster, and Speaker’s Briefings

1 – Registration/Speaker & Co-Chair Check-In,
2 – Poster Area, 3 – Sunday Welcome Reception, 4 – Speaker’s Briefing

Level 2 — Opening Sessions and All Technical Sessions

5 – Opening Session
6-12 – Technical Session Rooms
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<td>Applying Strategic Planning, Decision-Making and Risk Reduction Methodologies in EM</td>
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<td>PANEL: Decommissioning work at the OECD/Nuclear Energy Agency</td>
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<td>30</td>
<td>Siting, Design, Construction, and Operation of LILW Disposal Facilities - Part 1 of 2</td>
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<tr>
<td>31</td>
<td>LILW Waste Characterization, Assay, and Tracking Systems - Part 2 of 2</td>
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<td>32</td>
<td>Repository Programs - Part 1 of 2</td>
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<td>33</td>
<td>Recent Advances in Processing and Immobilization of HLW, Fissile Material and Transuramic (TRU) - Part 1 of 2</td>
</tr>
<tr>
<td>34</td>
<td>Radium Remediation - Historical Perspectives and Current Circumstances - Part 2 of 3</td>
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<tr>
<td>35</td>
<td>Uranium Mining and Milling Sites ER</td>
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<td>36</td>
<td>ER Site Characterization and Monitoring - Part 1 of 3</td>
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<td>37</td>
<td>Young Generation Network (YGN) and Professional Development Programs</td>
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<tr>
<td>38</td>
<td>PANEL: Young Generation Network (YGN) and Professional Development Programs</td>
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<td>39A</td>
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<td>39B</td>
<td>POSTER SESSION: ER</td>
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<td>39C</td>
<td>POSTER SESSION: EM &amp; Crosscutting</td>
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<td>40</td>
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<td>41</td>
<td>D&amp;D Technologies - Part 2 of 2</td>
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<tr>
<td>42</td>
<td>Liquid Waste Treatment Process and Experience</td>
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<td>43</td>
<td>Siting, Design, Construction, and Operation of LILW Disposal Facilities - Part 2 of 2</td>
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<tr>
<td>44</td>
<td>Disposal Site and Waste Form Characterization and Performance Assessment - Part 1 of 2</td>
</tr>
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<td>45</td>
<td>Repository Programs - Part 2 of 2</td>
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<tr>
<td>46</td>
<td>National and International Programs for Spent Fuel, Fissile, TRU, and LILW Management</td>
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<tr>
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<td>Radium Remediation - Historical Perspectives and Current Circumstances - Part 2 of 3</td>
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<tr>
<td>49</td>
<td>PANEL: Communications and Knowledge Management - Part 1 of 2</td>
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<tr>
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<tr>
<td>51</td>
<td>Safety Considerations Associated with LILW Management</td>
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<tr>
<td>52</td>
<td>Disposal Site and Waste Form Characterization and Performance Assessment - Part 2 of 2</td>
</tr>
<tr>
<td>53</td>
<td>Global Partnership in Environmental Management - Part 1 of 2</td>
</tr>
<tr>
<td>54</td>
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</tr>
<tr>
<td>55</td>
<td>Safety and Security Related to Environmental and Nuclear Materials Management</td>
</tr>
<tr>
<td>56</td>
<td>Advanced LILW Technologies - Part 2 of 2</td>
</tr>
<tr>
<td>57</td>
<td>Recent Advances in Processing and Immobilization of HLW, Fissile and TRU - Part 2 of 2</td>
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<tr>
<td>58</td>
<td>D&amp;D Radiological Characterization and Monitoring</td>
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<td>59</td>
<td>Risk/Performance Assessments and Contaminant Migration</td>
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<tr>
<td>60</td>
<td>POSTER SESSION: Best Posters of ICEM2011</td>
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</table>
Approximate Presentation Times

Note: All Technical Program information listed below is as supplied to the ICEM website. All presentations listed are subject to change, for the Final Program.

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<tr>
<th>Morning Presentation</th>
<th>Start Time</th>
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<tr>
<td>Session Start</td>
<td>8:30am</td>
<td>Session Start</td>
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<td>Paper 1</td>
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<td>Paper 1</td>
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<td>Paper 2</td>
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<td>9:25am</td>
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<td>Paper 4</td>
<td>9:50am</td>
<td>Paper 4</td>
<td>3:05pm</td>
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<tr>
<td>Break</td>
<td>10:15am - 10:40am</td>
<td>Break</td>
<td>3:30pm - 4:10pm</td>
</tr>
<tr>
<td>Session Starts</td>
<td>10:45am</td>
<td>Session Starts</td>
<td>4:15pm</td>
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<tr>
<td>Paper 5</td>
<td>10:50am</td>
<td>Paper 5</td>
<td>4:20pm</td>
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<td>Paper 6</td>
<td>11:15am</td>
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<td>4:45pm</td>
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<tr>
<td>Paper 7</td>
<td>11:40am</td>
<td>Paper 7</td>
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<tr>
<td>Paper 8</td>
<td>12:05am</td>
<td>Paper 8</td>
<td>5:35pm</td>
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<tr>
<td>Session Ends</td>
<td>12:30am</td>
<td>Session Ends</td>
<td>6:00pm</td>
</tr>
</tbody>
</table>

Lunch 12:30pm - 1:40pm

Oral/Panel Session(s)

The above approximate presentation times are provided so you can tentatively arrange your schedule. We rely on the Session Co-Chairs to manage the presentations to this schedule so that you can move between sessions and attend the presentations you desire. We recognize however that due to cancellations or other unplanned events, the order or time may be changed for the Final Program. The session posters outside each speaking room are intended to show the cancelled papers and any changed times. We also encourage the Session Co-Chairs to manage the session time in the best interest for the majority of the attendees and request that they mark any changes on the posters before the session starts. We offer our regrets if you missed a presentation due to these changes.

Poster Presentations

Poster Presentations will be located on Level 1 of the Conference Center. Each day of the conference a Q&A time is set up to meet with the Poster Presenters. At the end of each session there will be 3 Poster Presentations selected as “Best of Show”. These winning selections will remain until the end of the conference. We ask that you check back each day for these selections and on Thursday to view all of the awardees.

Presentations with a paper prepared for the post conference CD are noted as “wP”. Presentations without papers are noted as “w/oP”. Authors and Panelists speaking are shown in **Bold**.

SESSION 1

Monday: 9:00am - 12:30pm

OPENING SESSION

Co-Chairs: Anibal Taboas, ASME (USA), Dominique Greneche, SFEN (France)

Organizer(s): Anibal Taboas, Dominique Greneche and Gary Benda

Welcome to the ICEM’11 Conference — Welcome to Reims and France —

Plenary Speakers include:
- **Mr. François-Michel Gonnot**, Chairman of the Board, Andra (France)
- **Dr. Ines Triay**, Assistant Secretary, US DOE EM Program (USA)
- **Mr. Christophe Béhar**, Nuclear Energy Director, CEA (France)
- **Ms. Neile Miller**, Principal Deputy Administrator, US DOE NNSA Program (USA)
- **Dr. Tero Varjoranta**, Director, Division of Nuclear Fuel Cycle and Waste Technology, IAEA (Austria)

SESSION 2

Monday: 1:45pm - 6:00pm

PANEL: APPROACHES FOR INTERNATIONAL COLLABORATION (5.18)

Co-Chairs: Ana Han, DOE (USA), John Mathieson, NDA (UK)

Organizer(s): Ana Han and John Mathieson

This panel will provide an overview of the different approaches and initiatives used to promote international collaboration in environmental remediation and radioactive waste management, with a focus on the challenges and opportunities unique to each country and organization. An important element to reducing the cost and schedule of a country’s and/or organization’s environmental remediation mission is forming key international collaborative partnerships that focus on identifying and leveraging international expertise, infrastructure, and collaboration opportunities. Panelists include: **Marc Butez**, Andra (France); **John Mathieson**, NDA (UK); **Horst Monken-Fernandes**, IAEA (Austria); with invited panelists from ANSTO (Australia), AECL (Canada), DOE (USA) and Korea.

SESSION 3

Monday: 1:45pm – 6:00pm

PANEL: LESSONS LEARNED: CHERNOBYL TWENTY-FIVE YEARS LATER - TMI & OTHER EXPERIENCES (3.11)

Co-Chairs: Jas Devgun, Sargent & Lundy (USA), Jean-Guy Nokhamzon, CEA/DEEN/DADN (France)

Organizer(s): Jas Devgun and Jean-Guy Nokhamzon

At a time of Chernobyl accident’s 25th anniversary, this panel will discuss the status, challenges, and lessons learned from confinement activities and decommissioning activities as well as lessons learned from Chernobyl and other nuclear industry recovery experiences such as Three Mile Island. Panelists: **Zoran Drace**, IAEA; **Sergii Mitichkin**, Chernobyl NPP; **Thomas Chauveau**, Bouygues-Construction; NEA Representative; Industry Representative; and a Regulatory Representative.
SESSION 4
Monday: 1:45pm - 6:00pm

NATIONAL AND INTERNATIONAL PROGRAMS FOR L/ILW MANAGEMENT (1.2)
Co-Chairs: David Wallace, CDM (USA)
Michel Dutzer, Andra (France)
Organizer(s): David Wallace and Keith Anderson
Reviewer(s): David Wallace and Michel Dutzer

1. Low Level Waste Disposal Regulatory Issues in the US (wP - 59311)
   David James, DW James Consulting LLC, (USA); Lisa Edwards, Electric Power
   Research Inst. (USA)

2. Issues for the Management of Very Low Level Waste in the UK (wP - 59329)
   Adrian Punt, AMEC, (UK)

3. Taking the UK’s National LLW Programme from Strategy Development to
   Implementation (wP-59059)
   David Rossiter, Rachel O’Donnell, LLW Repository Ltd (UK)

4. CEA’s Waste Management Policy and Strategy — Lessons Learned (w/oP - 59201)

5. Regulations for the Disposal of Radioactive Waste in the Konrad Repository (wP - 59105)
   Hagen Gunther Jung, Lower Saxony Water Management, Coastal Protection and Nature
   Conservation Agency (NLWKN); Gabriele Bandt, TÜV Nord EnSys Hannover GmbH &
   Co. KG (Germany)

6. Radioactive Waste Management Challenges and Progress in Iraq (wP - 59164)
   Fouad Al-Musawi, Emad Shamsaldin, Ministry of Science & Technology (Iraq); John
   Cochran, Sandia National Laboratories (USA)

7. Development of Models to Predict NPP Radioactive Waste Arising and Verification
   against the AP1000 UK Generic Design Assessment Safety Submission (wP - 59328)
   Carmen Niculae, Liz Grindon, AMEC (UK)

8. The Hydrogeologic Environment for a Proposed Deep Geologic Repository in
   Canada for Low and Intermediate Level Radioactive Waste (wP - 59285)
   Jonathan Sykes, Stefano Normanti, Yong Yin, University of Waterloo; Mark Jensen,
   Nuclear Waste Management Organization (Canada)

Break

SESSION 5
Monday: 1:45pm - 6:00pm

L/ILW TREATMENT TECHNOLOGY DEVELOPMENT AND IMPLEMENTATION
(1.15)
Co-Chair(s): Hans Codée, Corva (Netherlands)
Keith Anderson, ECC (USA)
Organizer(s)/Reviewers(s): Hans Codée and Keith Anderson

1. Preliminary Demonstration of GeoMelt Treatment of Hanford’s K-Basin Sludge (wP - 59004)
   Keith Witmer, IMPACT Services, Inc.(USA)

2. Graphite Wastes Treatment (wP - 59017)
   Gerard Laurent, EDF/CIDEN (France)

3. Waste Loading Enhancements for Hanford LAW Glasses (wP - 59018)
   Albert Kruger, US DOE (USA)

4. THOR® Steam Reforming Technology for the Treatment of Complex and
   Problematic Wastes (wP - 59084)
   J. Brad Mason; Adam L. Foster, Studsvik, Inc. (USA)

5. A Room Temperature Stabilization and Waste Volume Reduction Method Tested on
   Belgian Intermediate-Level Homogeneous Bituminized Waste (Eurobitum) (wP - 59103)
   Nathalie R.E.N. Impens, SCK-CEN; Jan Deckers, BelgoProcess; Lesley Adriaensen,
   Pierre Van Iseghem, Studiecentrum voor Kernenergie -Centre d’Etude de l’Energie
   Nucléaire (Belgium)

6. Standardizing of LLW/ILW Treatment for Russian Type Pressure Water Reactors
   (wP - 59233)
   Klaus Buettner, Rainer Slametschka, NUKEM Technologies GmbH (Germany)

7. Thirty Five Years of Incineration in Studsvik, Lessons Learned and Recent
   Modifications and Improvements (wP - 59264)
   Maria Lindberg, Lena Bergström, Joakim Lövstrand, Studsvik Nuclear AB (Sweden)

8. Sodium-Rich Wastes: Challenges, Analysis and Performance (w/oP - 59316)
   Daniel Brew, Melody L Carter, Lou Vance, Martin W Stewart, ANSTO (Australia)

Break

SESSION 6
Monday: 1:45pm - 6:00pm

ISSUES AND SOLUTIONS RELATED TO SPENT FUEL, TRU, AND HLW
TRANSPORTATION AND DISPOSAL (2.5)
Co-Chair(s): Jeffrey Griffin, SRNL (USA)
Dominique Greneche, SFEN (France)
Organizer(s)/Reviewers(s): Jeffrey Griffin and Natraj Iyer

1. Initial Assessment of Radon in a Deep Geological Repository for Used Nuclear Fuel
   (wP - 59145)
   Kelly Sedor, Frank Garisto, Helen Leung, Nuclear Waste Management Organization
   (Canada)

2. Groundwater Flow Modeling of Periods with Temperate Climate Conditions for Use
   in a Safety Assessment of a Repository for Spent Nuclear Fuel (wP - 59154)
   Steven Joyce, Lee Hartley, Trevor Simpson, Serco (UK)

3. An Interactive Approach to Achieving Safety: From 2005 to 2014 (wP - 59294)
   Fabrice Boissier, Sylvie Voinot, Lise Griffaut, David Claudet, Andra (France)

4. Methodological Guide on Development of Work Plan for Mitigation of Accident
   Consequences during Transportation of Radioisotope Thermoelectric Generators
   and Radioisotope Heat Sources (wP - 59162)
   Valeryi Shempelev; Scientific and Engineering Centre for nuclear and Radiation Safety;
   Vladimir Reka, Rostechnadzor; Malgorzata Sneve, norwegian Radiation Protection
   Authority;
   Fabrice Boissier, Sylvie Voinot, Lise Griffaut, David Claudet, Andra (France)

5. Conception of a New Conditioning Process of Strongly Plutonium Contaminated
   Waste Canisters (wP - 59205)
   Sylvain Chevassu, ONET Technologies - ONECTRA (France)

6. Alpha Gamma Hot Cell Facility De-Inventory at Argonne National Laboratory: A
   Tale of Two Projects (wP - 59238)
   Michael Sodaro, Daniel Pancake, Argonne National Laboratory (USA)

7. Physical and Chemical Processes During Vacuum Drying of Metallic Spent Nuclear
   Fuel (wP - 59114)
   Martin Plys, Michael Epstein, Sung Jin Lee, Robert Athorpe, Fauske & Associates LLC
   (USA)

8. Removal of Hydrogen from Closed Irradiated Fuel Storage Containers (wP – 59351)
   Gerard Peplinskis, Jonathan Fitzpatrick, Cody Ziebarth, Christina Waters, Atomic
   Energy of Canada Ltd, (Canada)

Break
SESSION 7

Monday: 1:45pm - 6:00pm

NATIONAL AND INTERNATIONAL ER PROGRAMS (4.2)
Co-Chairs: Leo Van Velzen, NRG (Netherlands)
           Steve Brown, SENES Consultants Ltd (USA)
Organizer(s): Steve Brown and Didier Dubot
Reviewer(s): Steven Brown and Leo Van Velzen

1. Remediation of Areva Miramas Site (w/oP - 59312)
   Gilles Potier, Areva (France)

   Reflections and Two Belgian Case Studies (wP - 59184)
   Paul Mannaerts, Federal Agency For Nuclear Control (FANC); Stephane Pepin, FANC
   (Belgium)

3. Advanced Simulation Capability for Environmental Management (ASCEM) (wP – 59065)
   Paul Dixon, Los Alamos National Laboratory; Juan Meza, Lawrence Berkeley National
   Laboratory; Mark Williamson, US DOE, Office of Environmental Management; David
   Moulton, Los Alamos National Laboratory; Ian Gorton, Mark Freshley, Pacific Northwest
   National Lab; Yvette Collazo Reyes, USA DOE; Kurt Gerdes, DOE EM (USA)

4. Objectives for Remediation of Areas Polluted by Radioactive Substances in France
   (w/oP - 59308)
   Charlotte Cazara, IRSN; Odile Palut Laurent, ASN; Chapulain Estelle, MEDDTL; Didier
   Gay, IRSN; Geraldine Dandrieux, ASN; Alain Thomassin, Olivier Chabanis, Jerome
   Guillec, IRSN; Laurence Roy, MEDDTL (France)

5. Integrated Program Management for Major Nuclear Decommissioning and
   Environmental Remediation Projects (wP - 59068)
   John Lehew, CH2M HILL Plateau Remediation Company (USA)

6. Deep Vadose Zone Applied Research Center - Transformational Technology
   Development for Environmental Remediation (wP - 59020)
   Dawn Wellman, Mark Trippett, Mark Freshley, Michael Trucx, Roy Gephart, Tim
   Johnson, Los Alamos National Laboratory; Kurt Gerdes, Grover Chamberlain, Justin
   Marble, Rosa Ramirez, DOE EM; Briant Charboneau, DOE RL; John Morse, US DOE
   (USA)

7. EPRI Nuclear Power Plant Groundwater Protection Program (w/oP - 59341)
   Karen Kim, Electric Power Research Institute (USA)

8. Clean Up Strategies and Results in USIN Site in São Paulo City, Brazil (wP - 59243)
   Rodrigo Raposo de Almeida, Federal Fluminense University; Valter J.G. Marble, Rosa Ramirez,
   DOE EM; Briant Charboneau, DOE RL; John Morse, US DOE (USA)

SESSION 9

Monday: 8:30pm - 9:45pm

POSTER SESSION: LOW/INTERMEDIATE LEVEL WASTE MANAGEMENT
(CDW/L/I/LLW) (1.1)
Co-Chairs: Donald Goebel, SEC (USA)
           Vickie Maranville, AMEC (USA)
           David Wallace, CDM (USA)
Reviewer(s): Donald Goebel, Vickie Maranville and David Wallace

1. Radioactive Waste Management in Kyrgyz Republic (wP - 59241)
   Baigabyl Tolongutov, Ecological Safety Center (Kyrgyzstan)

2. Status of Site Investigation for L/ILW Facilities in the Philippines (wP - 59262)
   Maria V. Palattao, Carl Nohay, Rolando Reyes, Alfonso Singayan, Philippine Nuclear
   Research Institute; Dirk Mallants, Belgian Nuclear Research Centre SCK-CEN
   (Philippines/Belgium)

   Luan Qafmolla, Center of Applied Nuclear Physics (Albania)

4. Safety Evaluation of Central Radioactive Waste Processing and Interim Storage
   Facilities in Bangladesh (wP - 59010)
   Abdus S Mollah, Bangladesh Atomic Energy Commission (Bangladesh)

5. Numerical Modeling for Colloid-Facilitated Migration of N-number Radionuclides
   Chains in the Fractured Rock (w/oP - 59257)
   Chun-Ping Jen, National Chung Cheng University (Taiwan)

6. Laboratory Experiments on the Alteration of Highly-Compacted Bentonite by
   Alkaline Solution and the Effects on Physical Properties (wP - 59318)
   Satoru Miyoshi, Shinya Moritani, Yukinobu Kimura, Tomoko Jinno, Shuichi Yamamoto,
   Obayashi Corporation (Japan)

7. Gas Transport Properties of Pumice Tuff for Performance Assessment of LLW
   Disposal Facility (wP - 59074)
   Shuichi Yamamoto, Kenichiro Suzuki, Obayashi Corporation; Mamoru Kumagai, Japan
   Nuclear Fuel Limited; Yasuhiro Tawara, Koji Mori, Geosphere Environmental
   Technology Corporation (Japan)

8. Numerical Simulation on Effects of Test Conditions on Measured Swelling Pressure
   of Compacted Bentonite by Swelling Model (wP - 59219)
   Yukihisa Tanaka, Central Research Institute of Electric Power Industry (Japan)
Cancellations must be in writing. Cancellation fees will be waived for justified cancellations approved by the ICEM Finance Committee.

Substitutions will be allowed.

19, only $500 USD or 50% is refundable. Cancellations received after September 16, 2011, no refund is available.

Cancellation received after May 31, 2011 to September 31, 2011 – Full Refund.

THE ICEM’11 CANCELLATION POLICY: Cancellations received by or on May 31st only can be handled as a deposit and are refund once you attend the tour. Guest Tours: refunds will be held on a case by case basis.

If that number is not reached, interested delegates will be contacted by August 31st of cancellation and their refund. 

4. All tours (Technical & Guest) have been based on a minimum number of attendees. If that number is not reached, interested delegates will be contacted by August 31st of cancellation and their refund.

The registration fee includes the Sunday Welcome Reception and the Tuesday Reception, and one copy of the published proceedings. Optional activities not included are the Wednesday Banquet, Technical Tours, and/or the Guest Programs. Please see details of our cancellation policy.

*Member Rate: All authors listed will receive the Member Rate. Authors will not be permitted to present more than two oral presentations. To qualify for discounted Member Registration fees, you must be an ICEM'11 author, chair, co-chair, or a member of ASME or SFEN. **Exhibitor Registration: Single / Double Stand: 1 (one) Complementary Technical Registration; Triple / Quad 2 (two) Complementary Technical Registrations. Sponsorships - Platinum 3 (three) Technical Registrations and 3 (three) Wednesday banquet tickets; Gold 2 (two) Technical Registrations and 2 (two) Wednesday banquet tickets, Silver 1 (one) Complementary Technical Registration and 1 (one) Wednesday banquet ticket.

Please note:

1. All US and Non-European Union registrants must fill out the Registration Application Form and mail or fax it to the address noted on the registration form. Attendees can also register online at: www.asmeconferences.org/icem2011

2. To qualify for discounted Member Registration fees, you must be an ICEM’11 Author, Chair, Co-Chair, Panelist, Poster Presenter or a member of ASME or SFEN.

3. The registration fee includes the Sunday Welcome Reception and the Tuesday Reception, and one copy of the published proceedings. Optional activities not included are the Wednesday Banquet, Technical Tours, Training Course, the Technical Programs (Tours), the Wednesday Banquet Golf, Technical Tours, and/or the Guest Programs.

4. All tours (Technical & Guest) have been based on a minimum number of attendees. If that number is not reached, interested delegates will be contacted by August 31st of cancellation and their refund. The conference organizers accept no responsibility for costs associated with a different tour. The conference organizers accept no responsibility for costs associated with a different tour.

5. Payment MUST be in USD $ by May 31 or September 16 receive the early bird discount. All registration fees and submissions received after this date, will be subject to the increased registration rates. NOTE: Registration fees will increase on June 1, 2011 and on-site payment includes VAT and paid in EUROS, which includes check processing.

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NAME: ___________________________________________ MIDDLE INITIAL:_________________ LAST NAME: _________________________________________

COMPANY/Organization Name: _______________________________ Job Title: _______________________________

Phone: ______________________ Fax: ______________________ Email: _______________________________________

CITY: ____________________________________________ STATE/Country: ___________ Zip/Postal Code:____________________

SECTION (C/O): ___________________________________________ ACADEMIC/PROFESSIONAL ADDRESS: _______________________________________________________________________________

AMOUNT ($): _______ CHECK OR MONEY ORDER: _______ PAYMENT by May 31: _______ ON SITE: _______

Technical Registration Categories

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<td>Member/Author/Chair/Co-Chair Rates</td>
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PLEASE PRINT: ☐ Dr. ☐ Mr. ☐ Ms. ☐ Other: _____________________________________________________________________________________

First Name:_________________________________________ Middle Initial:___________ Last Name: _____________________________________

Company/Organisation Name:_____________________________________________________________ Job Title: _______________________________

Address:______________________________________________________________________________________________________________________

City:_______________________________________________________ State/Country:______________ Zip/Postal Code:__________________________

Phone:_______________________________ Fax:_______________________________ Email: _______________________________________________

Top Eight Sessions you are interested in attending: ____________________________________________________________________________________

The Technical Registration fee includes the Sunday Welcome Reception and the Tuesday Reception, and one copy of the published proceedings. Optional activities not included are the Wednesday Banquet, Technical Tours, Training Course, Golf and the Guest Programs. Please see details of our cancellation policy.

*Member Rate: All authors listed will receive the Member Rate. Authors will not be permitted to present more than two oral presentations. To qualify for discounted Member Registration fees, you must be an ICEM’11 author, chair, co-chair, or a member of ASME or SFEN. *Exhibitor Registration: Single / Double Stand: 1 (one) Complementary Technical Registration; Triple / Quad 2 (two) Complementary Technical Registration, Sponsorships - Platinum 3 (three) Technical Registrations and 3 (three) Wednesday banquet tickets; Gold 2 (two) Technical Registrations and 2 (two) Wednesday banquet tickets, Silver 1 (one) Complementary Technical Registration and 1 (one) Wednesday banquet ticket.

CONFERENCE REGISTRATION AND OTHER PROGRAMS AT A GLANCE

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<th>Registration Categories</th>
<th>Payment on or Before May 31, 2011</th>
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TOTAL FROM ABOVE: € ______________ PLUS 19.6% VAT: € ______________ = FINAL TOTAL: € ______________

Enclosed is Check (payable to: SFEN) # __________________ In the amount of: € ______________

Mail your completed form with payment to: SFEN • c/o ICEM’11 • 5 rue des Morillons • F75015 Paris

Credit Card: ☐ VISA ☐ MasterCard ☐ American Express (If credit card billing address is different than listed above, please list below)

Card Holder Name: ______________________________________________________________________ Amount to be charged: $ ______________

Credit Card Number: _______________________________________________________ Exp Date: ______________ CCV Code: _________________

Mailing Address: ______________________________________________________________________________ Mail Stop/Suite: ______________

Optional Events

Sunday Technical Training Course $195 $220 € 175

Wednesday Banquet (09/28/11) $56 $64 € 54

Technical Tours (Only Available until Sept. 26)

Preferred Choice - 1st Choice: 2nd Choice:

Technical Tour 1A: Reims to Andra, LLW Site $168 $187 N/A

Technical Tour 1B: Reims to Andra, HLW Site $168 $187 N/A

Technical Tour 1C: Reims to Chooz $168 $187 N/A

Refundable Deposit for Technical Tours $140 $140 N/A

Guest Programs

- Guest Name:

Reception - Sunday $28 $36 € 27

Reception - Tuesday $28 $36 € 27

Wednesday Banquet (09/28/11) $85 $95 € 67

Tour 1:

Day Tour to Paris $140 $161 € 135

Tour 2A:

Walking Tour of Reims $28 $32 € 25

Tour 2B:

Walking Tour/Champagne Cellar tour $49 $54 € 43

Tour 3:

Visit of the Champagne Vineyard $112 $120 € 97

Tour 4:

The Old City of Troyes $98 $105 € 85

Tour 5:

Walking Tour/Champagne Cellar tour $49 $54 € 43

Golf Tournament: Please list either your handicap or Average score ________

Grand Total to be Charged: $____________

PAYMENT POLICY - REGISTRATIONS WILL NOT BE PROCESSED WITHOUT PAYMENT.

Make Checks Payable to: ASME (Mailing address is listed above). Check# ______________________

Credit Card:

/boxshadowdwn

VISA /boxshadowdwn

MasterCard /boxshadowdwn

American Express (If credit card billing address is different than listed above, please list below)

Card Holder Name: ______________________________________________________________________

Amount to be charged: $ __________________

Credit Card Number: _______________________________________________________ Exp Date: ______________

CCV Code: ___________________

Mailing Address: ______________________________________________________________________________

City: ___________________________________________________ State: ___________ Zip Code: _________________ Country: ___________________

Conference Registration Procedures and Forms

European Union Advanced Registration Application

1. All European Union (EU) registrants must fill out the Registration Application Form #2 and mail or fax it to the address noted on the registration form. Attendees can also register online at: www.asmeconferences.org/icem2011

2. To qualify for discounted Member Registration fees, you must be an ICEM'11 Author, Co-Chair, Panelist, Poster Presenter or a member of ASME or SFEN.

3. The registration fee includes the Sunday Welcome Reception and the Tuesday Reception, the Final Program and one copy of the published CD proceedings. Optional activities that are not included in the registration fee are: the Technical Training Course, the Wednesday Banquet, Golf, Technical Tours, and/or the Guest Programs (Tours).

4. All tours (Technical & Guest) have been based on a minimum number of attendees. If that number is not reached, the tour may be cancelled and all refunds will be refunded once the tour has been cancelled.

5. Payment MUST be sent in EURO (€) currency and VAT @19.6% applied to final total of the registration fees for all European Union registrants.

6. Pre-registrations can only be received up to September 16, 2011. All registration fees and additional charges must be paid in EURO (€) currency and VAT @19.6% applied to final total of the registration fees for all European Union registrants.

7. Onsite registration fees and optional event purchases must be paid in EURO (€) currency and VAT @19.6% applied to final total of the registration fees for all European Union registrants.

8. Registration confirmations will be sent upon processing by email. Please be sure to bring your printed confirmation to the conference as this will be your only confirmation.

9. Onsite registration may be processed at the onsite registration desk. Onsite registration and optional event purchases must be paid in EURO (€) currency and VAT @19.6% applied to final total of the registration fees for all European Union registrants.

10. THE ICEM’11 CANCELLATION POLICY: Cancellations received by May 31, 2011 – Full Refund. Cancellations received after May 31, 2011, only 50% of the registration fee is refundable. Cancellations received after September 16, 2011, no refund is available. Substitutions will be allowed. Cancellations must be postmarked by the ICEM Finance Committee.

11. PLEASE NOTE: Registration Application will not be processed without payment.
SESSION 10
Tuesday: 8:30am - 12:30pm

PANEL: EMERGING ISSUES IN THE MANAGEMENT OF I/ILW (1.16)
Co-Chairs: Michel Dutzer, Andra (France)
Angie Jones, AMEC (USA)

Organizer(s): Michel Dutzer
This panel will focus on strategies for the management of all low and intermediate level waste (L/ILW). Based on experience in different national programs, it will discuss various options and their merits for managing L/ILW. It will consider the definition of different categories of L/ILW and their potential routes for disposal including waste of very low activity, often arising in high volumes as contaminated land, or from decommissioning. There will be discussion on large, disused components that are part of the decommissioning L/ILW waste stream. The engineering of facilities for the disposal of all such wastes should be proportionate to the long-term environmental impact that might arise. The panel will include leaders in the area of radioactive waste management from the US DOE, UK Nuclear Decommissioning Authority, IAEA, and leadership from other representative countries.

SESSION 11
Tuesday: 8:30am - 12:30pm

PANEL: HOW CAN NETWORKS IMPROVE THE IMPLEMENTATION OF ER PROJECTS? THE IAEA NETWORK ON ENVIRONMENTAL MANAGEMENT AND REMEDIATION-ENVIRONET (4.15)
Co-Chairs: Leo van Velzen, EURSSEM, NRG (Netherlands)
Horst Monken Fernandes, IAEA, (Austria)

Organizers: Horst Monken Fernandes
This panel introduces the IAEA’s Network on Environmental Management and Remediation – ENVIRONET. It will discuss how networks can improve the implementation and results of ER Projects and the status of the ENVIRONET after more than two years of operation. Panellists will be from various countries using ENVIRONET.

SESSION 12
Tuesday: 8:30am - 12:30pm

WASTE MINIMIZATION, AVOIDANCE, AND RECYCLING (1.3)

Co-Chairs: Ian Beadle, AMEC (UK)
Kapila Fernando, ANSTO (Australia)

Organizer(s)/Reviewers(s): Ian Beadle and Kapila Fernando
1. Waste Minimization by Melting – Recycling of Radioactive Metals (wP - 59040)
   Thomas Kluth, Ulrich Quade, Sempelkamp Nukleartechnik GmbH (Germany)
2. Biodegradable Protective Clothing for a Nuclear Facility (wP - 59003)
   Michael Cournoyer, Los Alamos National Laboratory (USA)
3. Evaluation of External Exposure During Building and Operation of Concrete Bridges Constructions that Reuse the Conditionally Released Steels (wp - 59035)  
Michal Panik, Tomas Hrnrci, Vladimir Necas, Slovak University of Technology (Slovakia)

4. Methodology for Identification of Conditionally Released Materials from Decommissioning Using the OMEGA Code (wp - 59175)  
Matej Zachar, Vladimir Daniska, DECOM; Vladimir Necas, Slovak University of Technology (Slovakia)

5. Impact of Nuclide Vector Composition Contained in Conditionally Released Steel Reused in Motorways Tunnel Scenario on Calculated Individual Effective Doses (wp - 59128)  
Tomas Hrnrci, Michal Panik, Vladimir Necas, Slovak University of Technology (Slovakia)

Rodrigo Raposo de Almeida, Federal Fluminense University, Valter J.G. Mortágua, Industrias Nucleares do Brasil (Brazil)

SESSION 13

Tuesday: 8:30am - 12:30pm

HLW, FISSILE, TRU AND SPENT FUEL SHORT AND LONG-TERM STORAGE ISSUES (2.4)

Co-Chairs: Bill Wilmarth, Savannah River National Laboratory (USA)

Organizer(s): James Blankenhorn and Kanwar Raj

Reviewers(s): Bill Wilmarth and Kanwar Raj

1. West Valley Demonstration Project High Level, Transuranic, and Greater than Class C Wastes (wp - 59048)  
James Blankenhorn, West Valley Environmental Services - URS (USA)

2. High-Burnup Fuel Issues for Long-Term Dry-Cask Storage and Transportation (wp - 59298)  
Mike Billone, Yung Liu, Mark Nutt, Argonne National Laboratory; Ken Sorenson, Sandia National Laboratories (USA)

3. Generic Design Assessment of Long-Term Spent Fuel Storage for New Reactors in the UK (wp - 59174)  
Christopher Fisher, Nuclear Directorate, Health and Safety Executive (UK)

4. Managing Aging Effects on Used Fuel Dry Cask for Very Long-Term Storage (wp - 59067)  
Omesh Chopra, David Ma, Vik Shah, Shiu-Wing Tam, Arun Wah, ANL; Yung Liu, Mark Nutt, Argonne National (USA)

5. Industrial Complementarities between Interim Storage and Reversible Geological Repository (wp - 59237)  
Jean-Michel Hoorelbeke, Andra (France)

6. Recent Developments in Spent Fuel Management in Norway (wp - 59260)  
Peter Bennett, Barbara Oberlander, Institute for Energiteknikk (Norway)

SESSION 14

Tuesday: 8:30am - 12:30pm

D&D OF POWER REACTORS AND RESEARCH REACTORS (3.9)

Co-Chairs: Jean-Marie Cuchet, BELGONUCIAIRE (Belgium)

Organizer(s): Jean-Marie Cuchet and Anibal Taboas

Reviewers(s): Jean-Marie Cuchet and Anibal Taboas

1. DD - An Approach to New Reactor Designs (wp - 59197)  
Jas S. Devgun, Sargent & Lundy (USA)

2. Full System Decontamination (FSD) Prior to Decommissioning (wp - 59189)  
Christoph Stiepani, Areva NP GmbH (Germany)

3. Feedback from Westinghouse Experience on Segmentation of Reactor Vessel Internals (wp - 59013)  
Joseph Boucau, Westinghouse Electric Company (Belgium); Stefan Fallström, Per Segerud, Westinghouse Electric Sweden (Sweden); Paul Kretman, Westinghouse Electric Company (USA)

4. Update on Jose Cabrera NPP Decommissioning (wp - 59322)  
Juan Santiago, Nieves Martin, Manuel Rodriguez, ENRESA (Spain)

5. The Removal, Transportation and Final Treatment and Conditioning of the Thetis Research Reactor Spent Fuel of the University of Ghent (Belgium) Achieved in 2010 Authors (wp - 59261)  
Hubert Thierens, Myriam Monsieurs, Ghent University; Vincent De poorter, Marnix Braekeveeld, NIRAS/ONDRAF; Luc Noynaert, SCK ‘CEN; Patrick Lewandowski, Belgoproces; Patrick Maris, SCK ‘CEN (Belgium)

6. Brennus NPP and Its Territorial Context (wp - XXXX)

7. The Decommissioning of the Ciemat Nuclear Research Centre (wp - 59321)  
Juan Santiago, Sergio Vidaechea, Manuel Ondaro, ENRESA (Spain)

8. The Chooz A Reactor Dismantling Project (wp – 59363)  
Estelle Grevin, EDF (France)

SESSION 15

Tuesday: 8:30am - 10:15am

THE FRENCH D&D ACTIVITIES - ORGANIZATION, STRATEGY, OBJECTIVES AND EXPERIENCE (3.2)

Co-Chairs: Jean-Guy Nokhamzon, CEA/DEN/DADN (France)

Organizer(s): Jean-Guy Nokhamzon

Reviewers(s): Jean-Guy Nokhamzon and Andy Szilagyi

1. CEA’s Decommissioning Policy and Strategies – Lessons Learned (wp - 59203)  
Philippe Guibert, Didier Dall’ava, CEA; Jean-Guy Nokhamzon, CEA/DEN/DADN (France)

2. Cleaning and Dismantling of CEA-Saclay Nuclear Licensed Facilities (wp - 59227)  
Michel K. Jeanjacques, Rebecca Glévarec, Isabelle Delaire, Jean Louis Martin, Commissariat à l’Energie Atomique et aux energies Alternatives (France)

3. Areva Return on Experience from D&D Programme Management - What We Have Learned So Far? (wp - 59324)  
Thierry Varet, Areva; Jean-Michel Chabetau, Grégoire de Laval, Guy Decobert, Frédéric Chambon, Areva Nuclear Site Value Development BU (France)
SESSION 16

NATIONAL AND INTERNATIONAL D&D PROGRAMS (3.3)

Co-Chairs: Sean Bushart, EPRI (USA)
            Dominique Greneche, Consultant (France)
Organizer(s): Jas Devgun and Thierry Varet
Reviewer(s): Sean Bushart and Dominique Greneche

1. Particularities of ChNPP Site Remediation During its Decommissioning (wP - 59193)
   Sergiy Mitchkin, Valeriy Seyda, Chernobyl NPP (Ukraine)
2. Division of Nuclear Liabilities Between Different License Holders and Owners (wP - 59214)
   Staffan Lindskog, Swedish Radiation Safety Authority; Rolf Sjöblom, Tekedo AB (Sweden)
3. Spanish Approach to Large Decommissioning Projects (wP - 59320)
   Juan Santiago, Alejandro Rodriguez, ENRESA (Spain)
4. Decommissioning of Obsolete Nuclear Facilities in the Nuclear Research Institute Rez (wP - 59309)
   Josef Podlaha, Karel Svoboda, Nuclear Research Institute Rez; Eduard Hanslik, T.G.M. Water Research Institute (Czech Republic)

SESSION 17

APPLYING STRATEGIC PLANNING, DECISION-MAKING AND RISK REDUCTION METHODOLOGIES IN EM (5.7)

Co-Chairs: Roger Seitz, Savannah River National Laboratory (USA)
            Dominique Francois-Bongarcon, Aigoratex (France)
Organizer(s): Roger Seitz
Reviewer(s): Roger Seitz and Dominique Francois-Bongarcon

1. Prioritization Risk Integration Simulation Model (PRISM) for Environmental Remediation and Waste Management (wP - 59247)
   Ian Miller, GoldSim Technology Group; Ralph Stoll, David Pentz, John Greeves, Franklin Sheppard Jr., Predicus LLC; Mark Nutt, Argonne National Laboratory (USA)
2. Can Sustainability Be Applied to our Environmental Remediation Challenges? (wP - 59148)
   Peter Booth, NNL (UK)
3. Nuclear Facility Recycle & Transitioning Former Nuclear Materials Production to Energy / Industrial Parks (wP – 59276)
   Dennis Ferrigno, Shaun McCabe, Rod Strand, CAF & Associates, LLC; Mark Kirshe, Consultant (USA)
4. Evolution of Performance Assessment Modeling in the US (wP - 59334)
   Paul Black, John Tauxe, Neptune and Company, Inc.(USA)

SESSION 18

Tuesday: 10:45am - 12:30pm
ECONOMIC ANALYSES, MONITORING STRATEGIES AND PROJECT MANAGEMENT IN ENVIRONMENTAL MANAGEMENT (5.6)

Co-Chairs: Yvette Collazo, US DOE (USA)
           Paul Black, Neptune and Company, Inc. (USA)
Organizer(s): Judy Connell and Yvette Collazo
Reviewer(s): Yvette Collazo and Paul Black

1. Lessons Learned in Environmental Project Management (w/oP - 59230)
   Chuan-Fu Wu, US DOE (USA)
2. How Robust is the Plan? - Managing the Nuclear Estimate (wP - 59253)
   Alastair Laird, Project Time & Cost Inc. (USA)
3. The Technical and Economical Optimization of the French Geological Repository Project (wP - 59275)
   Rodolphe Raffard, Thibaud Labalette, Andra (France)
   Elisabeth Leclerc, Patrick Landais, Andra (France)

SESSION 19

Tuesday: 8:30am - 5:45pm
POSTER SESSION: SPENT FUEL, FISSILE, TRANSURANIC AND HIGH LEVEL WASTE MANAGEMENT (2.1)

Co-Chairs: Ed Bentz, EJ Bentz & Associates (US)
           Heather Klebb, NFT (US)
           Gerald Ouzounian, Andra (France)
           Natraj Iyer, SRNL (USA)
Reviewer(s): Heather Klebb, Gerald Ouzounian, and Ed Bentz

   Kenji Amano, Tadafumi Nizato, Kunio Ota, Japan Atomic Energy Agency (Japan); Bill Lanyon, Nagra; W. Russell Alexander, Bedrock Geosciences (Switzerland)
2. ADONIS, High Count Rate HP-GeLi Spectrometry Algorithm: Irradiated Fuel Assembly Measurement (wP - 59234)
   Patrick Pin, Areva NC La Hague; Eric Barat, Thomas Dautremer, Thierry Montagu, Stéphane Normand, CEA – Saclay (France)
3. Technical Know-How for the Investigation and Modeling of Topographical Evolution for Site Characterization (wP - 59171)
   Ryosuke Doke, Ken-ichi Yasue, Tadafumi Nizato, Akio Nakayasu, Japan Atomic Energy Agency (Japan)
4. Validation of Correlations Between Nd Isotopes and Difficult-to-Measure Nuclides Predicted with a Burn-up Calculation Code by Post Irradiation Examination (wP - 59086)
   Shihho Asai, Keisuke Okumura, Yukiko Hanzawa, Hideya Suzuki, Masaaki Toshimitsu, Jun Inagawa, Takaumi Kimura, Japan Atomic Energy Agency; Satoru Kaneko, Kensuke Suzuki, Tokyo Electric Power Company (Japan)
5. Computational Study for Inventory Estimation of Sc-79, Tc-99, Sn-126, and Cs-135 in High-Level Radioactive Wastes from Spent Nuclear Fuels of Light Water Reactors (wP - 59087)
   Keisuke Okumura, Shihho Asai, Yukiko Hanzawa, Tsutomu Okamoto, Hideya Suzuki, Masaaki Toshimitsu, Jun Inagawa, Takaumi Kimura, Japan Atomic Energy Agency; Satoru Kaneko, Kensuke Suzuki, Tokyo Electric Power Company (Japan)
6. Technical Know-How of Site Descriptive Modeling for Site Characterization (wP - 59089)
   Hiromitsu Saegusa, Tadafumi Nizato, Ken-ichi Yasue, Hironori Onoe, Ryosuke Doke, Japan Atomic Energy Agency (Japan)
7. Industrial Scale HL-LL Waste Canister Transfer Demonstrator (wP - 59305)
   Pascal Champ, Cegene (France)
8. CESs Code: An Industrial Tool for Irradiated Nuclear Fuel and Waste Characterization, with an Associated Qualification (w/oP - 59080)
   Jean-Marc Vidal, Romain Eschbach, Commissariat à l’Énergie Atomique Énergies Alternatives; Agnes Launay, Christophe Binet, AREVA NC (France)
9. Test Procedure with a 15,000 kg Half-Scale Prototype of Transport and Storage Cask (w/oP - 59141)
   Andre Musolf, Thomas Quercetti, Karsten Müller, BAM - Federal Institute for Materials Research and Testing (Germany)
10. Capillary Electrophoresis with Laser-Induced Fluorescent Detection Method using Highly EMISSive Probes for Analysis of Actinides in Radioactive Wastes (wP - 59092)
    Tomoko Haraga, Japan Atomic Energy Agency; Yuta Nakano, Masami Shibukawa, Saitama University; Yutaka Kameo, Keniaki Takahashi, Japan Atomic Energy Agency; Shingo Saito, Saitama University (Japan)
11. Transuranic Waste Disposal Facility Performance Assessment Results (w/oP - 59064)
    Sean Dunagan, Daniel J. Clayton, Moo Lee, Sandia National Laboratories (USA)
    Geoffrey Peter, Oregon Institute of Technology Portland Center (USA)
13. A New Way of Eliminating Tributylphosphate and Dodecane Mixtures Using Advanced Oxidation Techniques (w/oP - 59104)
    Geraldine Dupuy, DEWDROPS (France)

SESSION 20

Tuesday: 1:45pm-6:00pm

SESSION 21

Tuesday: 1:45pm - 3:30pm

PANEL: CONTRIBUTION AND COMPLEMENTARITIES OF INTERIM STORAGE, GEOLOGICAL DISPOSAL, PARTITIONING & TRANSMUTATION REVERSIBILITY REGARDING GLOBAL OPTIMIZATION OF RADWASTE MANAGEMENT (2.15)
Co-Chairs: Jean-Michel Hoorelbeke, Andra (France)  Heather Klebba, NFT (USA)
Organizer(s): Jean-Michel Hoorelbeke

SESSION 22

Tuesday: 4:15pm - 6:00pm

PANEL: CONTRIBUTION AND COMPLEMENTARITIES OF INTERIM STORAGE, GEOLOGICAL DISPOSAL, PARTITIONING & TRANSMUTATION REVERSIBILITY REGARDING GLOBAL OPTIMIZATION OF RADWASTE MANAGEMENT (2.13)
Co-Chairs: Jean-Michel Hoorelbeke, Andra (France)  Heather Klebba, NFT (USA)
Organizer(s): Jean-Michel Hoorelbeke

SESSION 23

Tuesday: 1:45pm - 3:30pm

ADVANCED L/ILW CONDITIONING TECHNOLOGIES – PART 1 OF 2 (1.11)
Co-Chairs: Adrian Punt, AMEC (UK)  Mike Garamszeghy, Nuclear Waste Management Organization (Canada)
Organizer(s): Adrian Punt and Mike Garamszeghy
Reviewer(s): Adrian Punt and Mike Garamszeghy
1. Cementitious Materials for Radioactive Waste Management within IAEA Coordinated Research Project (wP - 59021)
   Zoran Drace, IAEA (Austria); Michael Ojovan, University of Sheffield (UK)
2. Immobilisation of Radwaste in Synthetic Rock: An Alternative to Cementation (wP - 59008)
   *Bernard Rottner*, Onet Technologies (France)

3. Withdrawal, Treatment and Conditioning of Spent Ion-Exchange Resins into Aluminosilicate SIAL® Matrix for the NPP with VVER 440-type Reactor at Dukovany, Czech Republic (wP - 59226)
   *Milenka Prážka, Peter Tatranský, Stanislav Sekely*, AMEC Nuclear Slovakia s.r.o. (Slovakia) Petr Kopecky, CEZ a.s. (Czech Republic)

4. Elution Behavior of Heavy Metals from Cement Solidified Products of Incinerated Ash Waste (wP - 59102)
   *Yoshihiro Meguro, Yoshihito Kato, Tatsuya Nakayama, Osamu Tomioka*, Japan Atomic Energy Agency (Japan)

**SESSION 24**

Tuesday: 4:15pm - 6:00pm

LILW WASTE CHARACTERIZATION, ASSAY, AND TRACKING SYSTEMS - PART 1 OF 2 (1.7)

Co-Chairs: *Karan North, Magnox Ltd (UK)*
           *Jerome Bruzière, Areva (France)*

Organizer(s): Ronald Keyser and Karen North

Reviewer(s): Karen North and Jerome Bruzière

1. A Proposed Figure of Merit for Evaluating the Performance of Radiation Identification and Detection Systems (wP - 59159)
   *Ronald Keyser, Timothy Tremain, ORTEC - AMETEK (USA)*

2. Characterization of Legacy Low Level Waste at the SVAFO Facility Using Gamma Non-Destructive Assay and X-Ray Non-Destructive Examination Techniques (wP - 59289)
   *Stephen Halliswell*, IJ Technologies Inc (USA)

   *John Mason*, A. N. Technology Ltd (UK); Kapila Fernando, ANSTO, Australia Nuclear Science and Technology Organization (Australia)

4. Performance of a DrumScan® HRGS Solo Scanner for the Assay of Legacy Waste at the Belgoprocess Site (wP - 59122)
   *Daniel Parvin*, Babcock International Group (UK); Thomas Huys, Belgoprocess (Belgium)

**SESSION 25**

Tuesday: 1:45pm - 6:00pm

D&D OF NON-REACTOR NUCLEAR FACILITIES (3.10)

Co-Chairs: *Ken Kok, URS (USA)*
           *Lucien Pillette-Cousin, Areva (France)*

Organizer(s): *Jas S. Devgun and Jean-Guy Nokhamzon*

Reviewer(s): *Ken Kok and Lucien Pillette-Cousin*

1. Decommissioning the Belgonucleaire Dessel MOX Plant: Presentation of the Project and Situation on 31/12/2010 (wP - 59027)
   *Jean-Marie Cuchet, Carlo Verheyen, Henri Libon*, BELGONUCLEAIRE; Jos Custers, TECMURBEL; Robert Walthery, BELGOPROCESS (Belgium); Jozef Bily, STUDVIK GmbH (Germany)

2. Uranium Workshops Dismantling and Criticality Control (wP - 59060)
   *Pierre Lisbonne, Julie Rosello*, CEA (France)
SESSION 27
Tuesday: 1:45pm - 6:00pm

ER SITE CHARACTERIZATION AND MONITORING - PART 1 OF 2 (4.5)

Co-Chairs: Virgene Mulligan, ARS International (USA)
            Nicolas Jeannée, Géovariance (France)

Organizer(s): Steve Brown and Didier Dubot

Reviewer(s): Virgene Mulligan and Nicolas Jeannée

1. Soils Radiological Characterization Under a Nuclear Facility (wP - 59046)
   Emilie Aubonnet, Géovariances / CEA FAR; Didier Dubot, CEA/FAR/USLT/SPRE/SAS (France)

2. Radiological Evaluation of Contaminated Sites and Soils VEGAS: An Expertise and
   Investigating Vehicle (wP - 59057)
   Julien Attigbe, GEOVARIANCES; Marie Lavielle, Patrick De Moura, CEA (France)

3. Determination of the Radionuclide Contamination on the Absheron Peninsula in
   Azerbaijan (wP - 59177)
   Tjalle Vandergraaf, Providence College (Canada); Gudrat Mamedov, Mahammadali Ramazanov, Baku State University; Jalal Naghiyev, Institute of Radiation Problems; Aflat Mehdiyeva, National Aerospace Agency of Azerbaijan; Nazim Huseynov, Institute of Radiation Problems (Azerbaijan)

4. High-Density Gamma Radiation Spectrometry Surveys of Contaminated Land (wP - 59076)
   Mike Davies, Robert Clark, Nuvia Limited (UK)

5. Characterization of a Deep Radiological Contamination: Integration of Geostatistical
   Processing and Historical Data (wP - 59062)
   Yvon Desnoyers, GEOVARIANCES; Patrick De Moura, CEA (France)

6. Industrial Experience Feedback of a Geostatistical Estimation of Contaminated Soil
   Volumes (wP - 59181)
   Claire Faucheux, Nicolas Jeannée, GEOVARIANCES (France)

7. Remediation and Assessment of the National Radioactive Waste Storage and
   Disposal Site in Tajikistan (wP - 59110)
   Tjalle Vandergraaf, Providence College (Canada); Nazirzhan Buriev, Djamshed Abushukurov, Physical-Technical Institute of the Academy of Sciences of the Republic of Tajikistan (Tajikistan)

8. Integrating History and Measurement into a Case for Site Release (wP - 59131)
   Mike Davies, Nuvia Limited; Angela Bartlett, Research Sites Restoration Limited; Pete Burgess, Nuvia Ltd; Gavin Coppins, Babcock International Group (UK)

SESSION 28
Tuesday: 1:45pm - 6:00pm

PUBLIC PERCEPTION ISSUES AND STAKEHOLDER ENGAGEMENT

STRATEGIES IN RADIOACTIVE ENVIRONMENTAL MANAGEMENT (5.5)

Co-Chairs: Judy Connell, Fluor Government Group (USA)
            Sebastien Farin, Andra (France)

Organizer(s): Judy Connell

Reviewer(s): Judy Connell and Sebastien Farin

1. Perspectives on Reversibility and Retrievability of a Geological Repository in France
   Jean-Noel Dumont, Jean-Michel Hoorelbeke, Andra (France)

2. A Dialogue-Centric Approach to Environmental Remediation Decision-Making (wP - 59115)
   Laurel Boucher, The Laurel Co.; James Clark, CRX Group, Inc. (USA)
SESSION 30

Wednesday: 8:30am - 12:30pm

SITING, DESIGN, CONSTRUCTION, AND OPERATION OF L/ILW DISPOSAL FACILITIES - PART 1 OF 2 (1.12)

Co-Chairs: Philip Rendell, NDA (UK)  
Patricia Torres, Andrea (France)

Organizer(s): Philip Rendell and Cathy Hickey

Reviewer(s): Philip Rendell and Patricia Torres

1. On-Site, Near Surface Disposal of Graphite Wastes in the UK (wP – 59078)
   Adam Meehan; Peter Sibbey, Energy Solutions; Jeremy Lightfoot, Golder Associates (UK) Ltd.; Duncan Jackson, Eden Nuclear & Environment Ltd. (UK)

2. Applications of Chemical and Natural Processes to Enhance Long-Term Waste Disposal and Containment (wP – 59085)
   Kevin Leary, Paul Beam, US DOE (USA)

3. Product Quality Control of Radioactive Waste with a Special Regard to Federal States Collecting Facilities (w/oP – 59176)
   Katharina Aymanns, Markus Havertz, Research Centre Jülich GmbH (Germany)

4. Radiological Impact of Co-Location of the VLLW and LLW Repository at Mochovce Site (wP – 59152)
   Václav Hanusík, Zdena Kusovská, Jozef Morávek, VUJE, Inc.; Jozef Baláž, Oto Chren, Nuclear and Decommissioning Company plc. (Slovakia)

5. Centre de la Manche: A Disposal Facility in Institutional Control (wP – 59236)
   Michel Dutzer, Jean Pierre Verviale, Alain André, Albert Marchiol, Andra (France)

   Philip Rendell, Brendan Brenan, Alastair Clark, NDA (Radioactive Waste Management Directorate); Henry O’Grady, Parsons Brinckerhoff (UK)

7. State of the Art for Fabricating and Emplacing Concrete Containers into Large Horizontal Disposal Caverns in the French Geological Repository (wP – 59267)
   Jean-Michel Bosgiraud, Andra (France)

8. Slovenian Low and Intermediate Level Waste Repository (wP – 59161)
   Sandi Virsek, ARAO (Slovenian Radwaste Management Agency) (Slovenia)

SESSION 31

Wednesday: 8:30am - 12:30pm

L/ILW WASTE CHARACTERIZATION, ASSAY, AND TRACKING SYSTEMS - PART 2 OF 2 (1.18)

Co-Chairs: Ronald Keyser, ORTEC - AMETEK (USA)  
Jerome Bruzière, Areva (France)

Organizer(s): Ronald Keyser and Karen North

Reviewer(s): Ronald Keyser and Jerome Bruzière

1. Non-Destructive Examination of TRU Waste in Low and High Density Boxes and Drums, Using High Energy Real Time Radioscopy (HE-RT) and Wide Dynamic Range Imaging (wP – 59302)
   Stephen Hallwell, IJ Technologies Inc. (USA)

   Marina Sokic-Kostic, Felix Langer, Roland Schultheis, NUKEM Technologies GmbH (Germany)

   Leo P.M. Velzen, Nuclear Research Group; Steven van der Marck, Nuclear Research Group (Netherlands)

4. The Pervasiveness of Radioactive Contamination in Concrete and Cement (wP – 59317)
   David Read, University of Loughborough; Antoni E. Milodowski, British Geological Survey (UK)

5. Disposition of Transuranic Residues from Plutonium Isentropic Compression Experiment (Pu-ICE) Conducted at Z Machine (LA-UR-10-05649) (wP – 59186)
   Kapil K. Goyal, David M. French, Los Alamos National Laboratory; Betty J. Humphrey, Weston Solutions Inc.; Jeffrey Gluth, Kiech Corporation, Sandia National Laboratory (USA)

6. B-5. Use of Lanthanum Bromide Detectors to Augment Site Surveys for Depleted Uranium (wP-59169)
   Charles Waggoner, Mississippi State University; Ronald Unz, Institute for Clean Energy Technology; Donna Rogers, Mississippi State University (USA)

7. Ultrasonic Techniques for the In Situ Characterization of ‘Legacy’ Waste Sludges & Dispersions (wP – 59111)
   Timothy Hunter, Jeff Peakall, Simon Biggs, Michael Fairweather, James Young, University of Leeds, Leeds (UK)

8. NEW Free-Release and Sorting Monitors Developed for NPP A-1 Decommissioning, Slovakia (oP – 59071)
   Ondrej Slávik, Alojz Slaninka, Martin Lišťjak, Kamil Kravárík, VUJE, A.s Igor Pély (Slovakia)

SESSION 32

Wednesday: 8:30am - 12:30pm

REPOSITORY PROGRAMS: SITE SELECTION & CHARACTERIZATION, UNDERGROUND RESEARCH LABS, ENGINEERING & GEOLOGICAL BARRIERS - PART 1 OF 2 (2.3)

Co-Chairs: Irina Gaus, Nagra, (Switzerland)  
Jean-Paul Chiles, Ecole Mines (France)

Organizer(s): Irina Gaus and Johan Andersson

Reviewer(s): Irina Gaus and Jean-Paul Chiles

1. Safety Assessment Input to Site Selection - The Swedish Example (wP – 59031)
   Johan Andersson, JA Streamflow AB (Sweden)

2. Technical Know-How of Selection Process for the Horonobe Underground Research Laboratory Area and Site (wP – 59088)
   Takanori Kunimaru, Ryuji Takeuchi, Tatsuki Matsuzaki, Japan Atomic Energy Agency (Japan)

3. Characterization of Bedrock Hydrogeology at the Olkiluoto Site Using Surface Based and Underground Data (wP – 59095)
   Lee Hartley, Dave Swan, Steven Baxter, Serco (UK)

   Kunio Ota, Takanori Kunimaru, Kenji Amano, Japan Atomic Energy Agency (Japan); W Russell Alexander, Bedrock Geosciences (Switzerland)

5. Compliance-Based Site Characterization (wP – 59173)
   Ian Miller, GoldSim Technology Group; Mark Nutt, Argonne National Laboratory; Michael D. Voegele (USA)

   Michael Ojovan, University of Sheffield (UK); Pavel Poluektov, Vladimir Kascheev, A.A. Borchvar’s VNINM (Russia)
7. Modeling Approaches for Evaluating the Effects of Heterogeneity on Two-Phase Flow associated with the Migration of Waste-Generated Gas from SFHLW and LILW Repositories in Low-Permeability Formation (wP – 59196)
Paul Marschall, Nagra; Rainer Senger, Intera Inc. Swiss Branch; Andréis Alcolea, TK Consult AG; Alexandros Papafotou, Intera Inc. Swiss Branch (Switzerland); William G. Lanyon, Fracture-Systems Ltd. (UK); Jens Becker, Nagra (Switzerland)

8. Thermo-Hydro-Mechanical Simulation of a Heating and Hydration Experimental Study (China Mock-up) in Unsaturated GMZ Bentonite (wP – 59212)
Liang Chen, Ju Wang, Yuemiao Liu, Jingli Xie, Beijing Research Institute of Uranium Geology (China)

SESSION 33
Wednesday: 8:30am - 10:15am

RECENT ADVANCES IN PROCESSING AND IMMOLIZATION OF HLW, FISSLE MATERIAL AND TRANSUANIC (TRU) – PART 1 OF 2 (2.14)

Co-Chairs: Mark Denton, Kurion Inc. (USA)
Bernard Vigreux, Consultant (France)

Organizer(s): Mark Denton and Bill Wilmarth

Reviewer(s): Mark Denton and Bernard Vigreux

1. Uranium Metal Oxidation, Grinding and Encapsulation in BoroBond™: TRU Waste Management (wP – 59279)
Kevin S. Cook, Larry A. Addington, Beth Uiley, Boron Products, LLC (USA)

2. Challenging Solid and Liquid RH-TRU Processing in a Small Hot Cell Facility at Argonne National Laboratory (wP – 59322)
Devin Hodge, Argonne National Laboratory; John Mackin, Hukari Technical Services (USA)

David Moody, URS-WTS; Jesse Klingensmith, Areva (USA)

4. Pilot Test of Precipitation Setup for Dust Suppressor and Transuranic Elements Removal from Wastewaters of Chernobyl Nuclear Power Plant (wP – 59256)
Valentin Avramenko, Svetlana Bratskaya, Dmitry Marinin, Institute of Chemistry FEBRAS (Russia); Anatoliy Terzi, Mariya Yarmolyuk, Chernobyl Nuclear Power Plant (Ukraine)

SESSION 34
Wednesday: 10:45am - 12:30pm

ER SITE CHARACTERIZATION AND MONITORING - PART 2 OF 2 (4.12)

Co-Chairs: Stéphane Belbeze, ANTEA (France)
Ing. Jeroen Wellbergen, Corva (Netherlands)

Organizer(s): Didier Dubot

Reviewer(s): Ing. Jeroen Wellbergen and Stéphane Belbeze

1. Bulk Monitoring Techniques Used in the Remediation of Radioactively Contaminated Land (wP – 59094)
Helen Beddow; Ian Adsley; Mike Davies; Ian Pearman, Nuvia Limited (UK)

2. Sampling in Decommissioning: CETAMA Seminar and International Overview (wP – 59169)
Guy Granier, Daniele Roudil, CEA MARCOULE; Didier Dubot, CEA/FAR/USLT/SPRE/SAS (France)

SESSION 35
Wednesday: 8:30 – 10:15am

URANIUM MINING AND MILLING SITES ER (4.6)

Co-Chairs: Gerald Ouzounian, Andra (France)
Gerd Wiatzka, SENES Consultants Ltd (Canada)

Organizer(s): Steve Brown and Didier Dubot

Reviewer(s): Gerald Ouzounian and Gerd Wiatzka

1. The First New Conventional Uranium Mill in the US in 30 Years - Licensing of the Pinon Ridge Project, Colorado, USA (wP – 59330)
Steve Brown, SENES Consultants Ltd; Frank Files, Energy Fuels Resources (USA)

2. Phytoremediation of Depleted Uranium from Contaminated Soil and Sediments using Helianthus Annuus L (wP – 59221)
M. A. Amr, Qatar University (Qatar)

3. Mobility of Radium from Pyritic Uranium Mine Tailings Under Sub-aqueous Disposal Conditions (wP – 59283)
Nand Dave, Mining and Mineral Sciences Laboratories, Natural Resources, Canada (Canada)

Xu Lechang, Beijing Research Institute of Chemical Engineering and Metallurgy “CNNC” (China)

SESSION 36
Wednesday: 10:45am - 12:30pm

RADICRREMEDIATION - HISTORICAL PERSPECTIVES AND CURRENT CIRCUMSTANCES - PART 1 OF 3 (4.11)

Co-Chairs: Robert Zelmer, Atomic Energy of Canada Limited (Canada)
Steve Brown, SENES Consultants Ltd (USA)

Organizer(s)/Reviewers(s): Robert Zelmer and Steve Brown

1. Sawmill Bay: A Case Study for Low-Level Radioactive Waste Remediation in Canada’s North (wP – 59342)
Sawmill Bay Remediation (Canada)

2. Andra’s Remediation Missions (w/oP – 59209)
Organizer(s): Didier DubotReviewer(s): Ing. Jeroen Welbergen and Stéphane Belbeze

3. Remediation of Canada’s Historic Haul Route for Radium and Uranium Ores - The Northern Transportation Route (wP – 59303)
Bjorn Skov, Göran Nygren, Areva (Sweden); Brian Geddes, Chris Wenzel, AMEC Earth and Environmental; Michael Owen, Mark J. Gardiner, Robert Zelmer, Low-Level Radioactive Waste Management Office, AECL; Julie Brown, Liliana Bentz, Natural Resources Canada (Canada)

4. Radion Diagnosis Campaign (wP – 59327)
Florence Gabillaud-Poillion, Autorité de Sûreté Nucléaire (France)
SESSION 37

Wednesday: 8:30am - 10:15am

YOUNG GENERATION NETWORK (YGN) AND PROFESSIONAL DEVELOPMENT PROGRAMS (5.16)

Co-Chairs: Corhyn Parr, Nuclear Enterprises (USA)
Amy Bird, UKENS (UK)

Organizer(s): Corhyn Parr

Reviewer(s): Corhyn Parr and Amy Bird

This is a series of presentations followed by panel sessions on YGN and other professional development programs.

1. Nuclear as a Sustainable Energy Source - The Views of Younger Stakeholders (wP – 59222)
   Staffan Lindskog, Swedish Radiation Safety Authority (Sweden); Bea Labor, Badania Dydaktyczne Project 2010 (Poland)

2. The Re-establishment of Radiochemistry Academic Programs in the USA (wP – 59025)
   Craig Williamson, South Carolina Universities Research and Education Foundation (USA)

SESSION 38

Wednesday: 10:45am - 12:30pm

PANEL: YOUNG GENERATION NETWORK (YGN) AND PROFESSIONAL DEVELOPMENT PROGRAMS (5.17)

Co-Chairs: Corhyn Parr, Nuclear Enterprises (USA)
Amy Bird, UKENS (UK)

Organizer(s): Corhyn Parr

A general YGN Meeting will be conducted to canvass views of the younger members of the industry, exchange knowledge across companies, and grow the YGN network through the conference attendees. This meeting will be used to share best practices, and develop new ideas to progress the aims and objectives of the YGN in the future. Agenda: 1) Introductions; 2) Explanation of YGN Aims and Objectives; 3) Discussion on Output of YGN Questionnaire; 4) Sharing of International YGN Activities and Events; 5) Personal Development and Career Progression; 6) Education and Training Initiatives; 7) Communications across the YGN Network; 8) External Communications to wider industry and 9) Future Plans and New Initiatives.

SESSION 39-A

Wednesday: 8:30am - 5:45pm

POSTER SESSION: DECOMMISSIONING AND DECOMMISSIONING (D&D) (3.1)

Co-Chairs: Keith Anderson, ECC (USA)
Didier Delmont, CEA (France)

Reviewer(s): Keith Anderson and Didier Delmont

   Jongseon Jeon, SangKyu Park, Byoungsub Han, Enesys Co., LTD.; HakSoO Kim, Nuclear Engineering & Technology Institute; Wiscoo Kim, Enesys Co., LTD. (Korea Republic)

   Fabrice Moggia, Ahmed Benamane, Pierrick Menegon, Frédérique Damerval, Thierry Varet, Areva; Frédéric Richard, Air Liquide; Gary Anderson, Nitrocision (France)

A-3. Methodology of External Exposure Calculation for Reuse of Conditional Released Materials from Decommissioning (wP – 59138)
   František Ondra, Ivan Rehák, Marek Vasko, DECOM, a.s.; Vladimir Necas, Slovak University of Technology (Slovakia)

   Alojz Sláninka, VÚJE, a.s./ Slovak University of Technology in Bratislava; Ondrej Slávák, VÚJE, a.s., (Slovakia)

A-5. Laser Removal of Contaminants on the Metal Surface (wP – 59343)
   Hui Jun Won, Jei Kwon Moon, Sun Hee Jung, Chong Hun Jung, Kune Woo Lee, Korea Atomic Energy Research Institute (Korea Republic)

A-6. A Matrix Inversion Method For Gamma-Source Mapping From Gamma Count Data (wP – 59082)
   Richard Bull, Claire Burgess, Ian Adsley, Nuvia Limited (UK)

   Slavka Prvakova, University of Economics in Bratislava; Adela Mrskova, DECOM, a.s.; Jozef Pritrsky, DECOM; Vladimir Necas, Slovak University of Technology (Slovakia)

A-8. Conditional Release of Steel from Decommissioning in a Form of Reinforced Concrete (wP – 59058)
   Jozef Pritrsky, DECOM; Miroslav Brodman, University of Zilina; Vladimir Necas, Slovak University of Technology (Slovakia)

   Jongseon Jeon, Enesys Co., LTD.; HakSoO Kim, Nuclear Engineering & Technology Institute; Byoungsub Han, Enesys Co., LTD. (Korea Republic)

A-10. Reuse of Conditionally Released Steels; Proposal and Evaluation of Processes for Manufacturing of Steel Elements and for Construction of Selected Scenarios (wP – 59130)
   Peter Bezák, Eva Hajković, František Ondra, Vladimír Daniska, DECOM, a.s.; Vladimir Necas, Slovak University of Technology (Slovakia)

   Andris Abramenko, Latvian Environment, Geology and Meteorology Centre; Jazeps Malnacs, State Environmental Service, Radiation Safety Centre (Latvia)

A-12. Decommissioning of Irradiator Facility used for Research Purposes in Cuba (wP – 59047)
   Juan Carlos Benitez Navarro, Mercedes Salgado Mojena, CPHR; Evelio Soto Alvarez, Mercedes Salgado Mojena, CPHR; Adela Mrskova, DECOM, a.s.; Vladimir Necas, Slovak University of Technology (Slovakia)

A-13. Determining the Cost of Nuclear Technology Dismantling (w/oP – 59362)
   Jan Peter, SURAO (RAWRA) (Czech Republic)

   Gheorghe Barariu, National Authority for Nuclear Activity - Subsidiary of Technology and Engineering for Nuclear Project (Romania)

A-15. Bartlett’s Lessons Learned in Using Decon Gel as a Strippable Decontamination Agent for Radioactive and Hazardous Contaminants (w/oP – 59364)
   Gary Benda, Nick DiMascio, Batch Smith, Bartlett Services (USA)

SESSION 39-B

Wednesday: 8:30am - 5:45pm

POSTER SESSION: ENVIRONMENTAL REMEDIATION (ER) (4.1)

Co-Chairs: Lucien Pillette-Cousin, Areva (France)
Michel Dutzer, Andra, Chatenay-Malabry, (France)

Reviewer(s): Michel Dutzer and Lucien Pillette-Cousin

B-1. Radium Remediation in Canada - History and Present Day (w/oP – 59157)
   Robert Zelmer, Mark J. Gardiner, Michæl Owen, AECL (Canada)
B-2. Preparing For The Construction Phase of The Port Hope Area Initiative: Canada’s Largest Low-Level Radioactive Waste Clean-up Project (wP – 59307)
Christine Fahey, Andrea Denby, Glenn Case, AECL; Tim Palmeter, Public Works Government Services Canada, (Canada)

B-3. Techniques of Radioactive Soil Processing at Rehabilitation of Contamination Territories (wP – 59199)
Victor Volkov, Alexander Chesnokov, Alexey Daniilovich, Yuriy Zverkov, Sergey Kolyshiev, Sergey Semenov, Anatoly Shisha, RRC Kurchatov Institute (Russia)

B-4. Optimization (Sampling Strategies and Analytical Procedures) for Site Specific Environment Monitoring at the Areas of Uranium Legacy Sites Contamination Concern in Ukraine (wP – 59045)
Oleg Voitekhovich, Tatytana Lavrova, Alexander Kostezh, Ukrainian Hydrometeorological Institute (Ukraine)

B-5. Mathematical Modeling of Reactive Transport in Groundwater with Metals and Dissolved Isotopes 226Ra and 228Ra, USIN, São Paulo, Brazil (wP – 59245)
Rodrigo Raposo de Almeida, Federal Fluminense University; Valter J.G. Mortágua, Industrias Nucleares do Brasil; Felipe A. Rosa, Luciano D.F. Magalhaes, Universidade Federal Fluminens (Brazil)

B-6. Post-Iodine Production NORM Repository Technical Design and Reconstruction Experience in Turkmenistan (wP – 59183)
Alexander Gelibutovsky, Peter Cheremisin, Alexander Troshev, Alexander Egorov, Mikhail Boriskin, Mikhail Bogod, ECOMET-S (Russia)

SESSION 39-C

Wednesday: 8:30am - 5:45pm

POSTER SESSION: MAJOR INSTITUTIONAL ISSUES IN ENVIRONMENTAL MANAGEMENT / PUBLIC INVOLVEMENT POSTERS (EM & CROSSCUTTING) (5.1)
Co-Chairs: Judy Connell, Fluor Government Group (USA)
Gerald Ouzounian, Andra (France)
Reviewer(s): Judy Connell and Gerald Ouzounian

C-1. Radioactive Waste, from Myth to Reality: The Stakes for Andra’s Educational Communication Efforts (wP – 59287)
Annabelle Comte, Andra, (France)

SESSION 40

Wednesday: 1:45pm - 6:00pm

D&D MANAGEMENT APPROACHES AND PLANNING TOOLS (3.6)
Co-Chairs: Thierry Varet, Area – BU Value (France)
Michiya Sasaki, Central Research Institute of Electric Power Industry (Japan)
Organizer(s): Jas Devgun and Jean-Guy Nokhamzon
Reviewer(s): Thierry Varet and Michiya Sasaki

1. Implementation of the Standardized Listing into Decommissioning Costing; Examples and Related IAEA Projects (wP – 59313)
Vladimir Daniska, DECOM, a.s. (Slovakia); Michele Laraia, Paul Dinner, Patrick O’Sullivan, IAEA, (Austria)

2. Development of Computer Program for Estimating Decommissioning Cost (wP – 59037)
HakSoo Kim, JongKil Park, Nuclear Engineering & Technology Institute (Korea Republic)

3. A Practical Example of Reducing Technical Uncertainty in Decommissioning Projects (wP – 59229)
Martin Bentley, Paul E Mort, Sellafield Ltd (UK)

4. Human and Organisational Factors as Key Levers of Performance in D&D Project Management (wP – 59323)
Thierry Flament, Areva NC; Bertrand Willmann, Grégoire de Laval. Jean-Louis Lemarchand, Alain Cordoba, Areva Nuclear Site Value Development BU (France)

5. Use of Source Term and Air Dispersion Modeling in Planning Demolition of Highly Alpha-Contaminated Buildings (wP – 59254)
James G Droppo, Bruce A. Napier, Pacific Northwest National Laboratory (USA)

6. How And Integrated Change Programme Has Accelerated The Reduction In High Risk And High Hazard Nuclear Facilities at Sellafield (wP – 59014)
Angela Mackintosh, Sellafield Sites Ltd (UK)

Stephen Le Clere, Sellafield Ltd (UK)

8. Use of In-Situ Gamma Spectroscopy During Nuclear Power Plant Decommissioning (w/oP – 59340)
Richard McGrath, Karen Kim, Electric Power Research Institute (USA)

9. Experience of Application of New Remote Controlled Instruments for Scanning of Distribution of Radioactive Contamination in Rooms with High Dose Rate (wP – 59354)
Oleg Ivanov, Sergey Smirnov, Vyacheslav Stepanov, Alexey Daniilovich, Victor Potapov, Anatoly Volkovich, NRC Kurchatov Institute (Russia)

SESSION 41

Wednesday: 1:45pm - 6:00pm

D&D TECHNOLOGIES - PART 2 OF 2 (3.13)
Co-Chairs: Jas Devgun, Sargent & Lundy (USA)
Bernard Vignau, CEA (France)
Organizer(s): Jas Devgun
Reviewer(s): Jas Devgun

1. An Innovative Process For Segmenting Of Guide Tubes (w/oP – 59029)
Patrick PJ Gobert, Joseph Boucain, Westinghouse Electric Company (Belgium); Stefan Fallström, Westinghouse (Sweden)

Richard McGrath, Karen Kim, Electric Power Research Institute (USA)

3. Reuse of Conditional Released Materials from Decommissioning; A Review of Approaches and Scenarios with Long-Term Constructions (wP – 59149)
Vladimir Daniska, DECOM, a.s.; Jozef Pritrsky, DECOM; Frantiaek Ondra, Ivan Rehák, DECOM, a.s.; Matej Zachar, DECOM, a.s; Vladimir Necas, Slovak University of Technology (Slovakia)

Fouda Al-Musawi, Adnan S. Jarjies, Ministry of Science and Technology (Iraq); Ross Miller, Sandia National Laboratories (USA)

5. Remediation of a Ventilation Duct Contaminated by Pa-231 – (wP – 59248)
Pete Burgess. Keith Stevens, Nuvia Ltd.; Clare Irving, Forest Environmental (UK)

Robert Clark, Nuvia Limited; Pete Burgess, Nuvia Ltd.; Ian Croudsage, GAU-Radioanalytical Laboratories (UK)

7. The Use Of Standard Alpha And Beta Surface Scintillation Contamination Monitors to Confirm the Contamination Fingerprint and to Check on Source Quality (wP – 59249)
Pete Burgess, Nuvia Ltd (UK)
8. Clearance of Buildings of NPP Würgassen (Germany) Using an Innovative Clearance Concept (wP – 59280)
Stefan Woerlen, Marco Steinbusch, Alexander Kummer, Stefan Thierfeldt, Brenk Systemplanung GmbH (Germany)

SESSION 42

Wednesday: 1:45pm - 6:00pm

LIQUID WASTE TREATMENT PROCESS AND EXPERIENCE (1.8)

Co-Chairs: Paul Haigh, The Paul Haigh Partnership (UK) Michael Ojovan, University of Sheffield (UK)
Organizer(s)/Reviewer(s): Paul Haigh and Michael Ojovan
1. Nuclide Separation by Hydrothermal Treatment and Ion Exchange (wP – 59217)
Georg Braehler, Ronald Rieck, NUKE Technologies (Germany); Sergey Shmatko, Ministry of Energy of Russian Federation; Valentin Avramenko, Valentin Sergienko, Valentin Dobrzhanskyi, Institute of Chemistry FE/BRAS; Elmar Antonov, NTP (Russia)
2. Pre-Treatment of Organic Liquid Waste Stream at Carnava NPP (wP – 59079)
Gabriela Teodorov, MATEFIN (Romania); Dennis Kelley, Pacific Nuclear Solutions (USA)
3. A Fully Operational Pilot Plant for Eliminating Radioactive Oils Mixed with Chlorinated Solvents (wP – 59044)
Albert Jacobs, Dewdrops (France)
4. Transport and Deposition Properties of Model Slurries of One and Two Particle Species (wP – 59140)
Hugh Rice, Bo Lin, Simon Biggs, Michael Fairweather, James Young, University of Leeds (UK)

5. Decontamination of Strontium from Liquid Radioactive Wastes by Sodium Nonatitanate (wP – 59083)
Mercedes Aurile, CEA Marcoule; Agnès GRANDJEAN, Institut de Chimie Séparative de Marcoule; Yves BARRE, CEA Marcoule (France)
6. The Use of Ceramic Membrane Filters in the LRW Treatment Technologies at NPPs (wP – 59187)
Denis Fedorov, SUE SIA RADON (Russia)
7. Russia: Results and Prospects of Liquid Solidification Experiments at ROSATOM Sites (wP – 59112)
Dennis Kelley, Pacific Nuclear Solutions (USA)
8. Adsorption of Cesium Radionuclides by the Composite Sorbents Carbon Fiber/Transition Metals Ferrocyanides (wP – 59255)
Irina Sheveleva, Veniamin Zhelcznov, Svetlana Bratskaya, Valery Karyayvi, Valentin Avramenko, Institute of Chemistry FE/BRAS (Russia)

Break

SESSION 43

Wednesday: 1:45pm - 3:30pm

SITING, DESIGN, CONSTRUCTION, AND OPERATION OF L/ILW DISPOSAL FACILITIES - PART 2 OF 2 (1.19)

Co-Chairs: Cathy Hickey, URS Corporation (USA) Patricia Torres, Andra (France)
Organizer(s): Philip Rendell and Cathy Hickey
Reviewer(s): Cathy Hickey and Patricia Torres
1. Twenty Years of Operation for Centre de l’Aube Disposal Facility: Lessons Learned (wP – 59235)
Patrice Torres, Laurent Schucherer, Franck Duret, Pascal Lecoq, Alain Delaplanche, Michel Dutzer, Andra (France)

SESSION 44

Wednesday: 4:15pm - 6:00pm

DISPOSAL SITE AND WASTE FORM CHARACTERIZATION AND PERFORMANCE ASSESSMENT – PART 1 OF 2 (1.13)

Co-Chairs: Ed Bentz, EJ Bentz & Associates (USA) Michel Dutzer, Andra (France)
Organizer(s): Ed Bentz and Donald Goebel
Reviewer(s): Ed Bentz and Michel Dutzer
1. Radiological Characterization of The Dutch Interim Waste Storage Facility Site (wP – 59023)
Jeroen Welbergen, COVRA; Leo P.M. Velzen, Nuclear Research Group (Netherlands)
2. Climate Change Impacts on the Disposal Environment: A Climate Analogue Approach (wP – 59274)
Bertrand Leterme, Dirk Mallants, SCK-CEN (Belgium)
3. Mineralogical Analyses of Old (78 and 98 years) Concrete (wP – 59093)
Tomoko Ishii, Hitoshi Ovada, Radioactive Waste Management Funding and Research Center (Japan); Hiroyuki Sakamoto, Masahito Shibata, Kumi Negishi, Taiheyo Consultant Co., Ltd. (Japan)
4. Modeling of Alteration Behavior on Blended Cementitious Materials (wP – 59096)
Hitoshi Ovada, Tomoko Ishii, Radioactive Waste Management Funding and Research Center; Mayumi Takazawa, Hiroyasu Kato, Mitsubishi Materials Corporation; Hiroyuki Sakamoto, Masahito Shibata, Taiheyo Consultant Co., Ltd. (Japan)

SESSION 45

Wednesday: 1:45pm - 3:30pm

REPOSITORY PROGRAMS: SITE SELECTION & CHARACTERIZATION, UNDERGROUND RESEARCH LABS, ENGINEERING & GEOLOGICAL BARRIERS - PART 2 OF 2 (2.7)

Co-Chairs: Bill Miller, AMEC (UK) Johan Andersson, JA Streamflow AB (Sweden)
Organizer(s)/Reviewer(s): Bill Miller and Johan Andersson
1. Characterization Of The Anticipated Bentonite EBS Behaviour Immediately After Repository Closure In the Framework Of the PEBS (Long Term Performance of Engineered Barrier Systems) EURATOM Project (wP – 59288)
Irina Gaus, Nagra (Switzerland); Juan Carlos Mayor, ENRESA (Spain); Klaus Wickeorek, GRS (Germany); Michael Mente, BGR (Germany); Paul Marschall, Sven-Peter Teodori, NAGRA (Switzerland)
2. Performance Assessment Modeling for the Geological Siting Regions for the L/ILW and HLW Repositories in the Context of the Swiss Site Selection Plan (wP – 59306)
Andreas Poller, Jürg W. Schneider, Piet Zuidema, Nagra; Johannes Holocher, Gerhard Mayer, AF-Colenco AG (Switzerland)
3. Investigations on the Minimum Distance Between a Spent Fuel/High-Level Waste and a Low/Intermediate-Level Waste Repository Due to Gas and Heat Generation (wP – 59220)
   **Rainer Senger**, John Ewing, Intera Inc. Swiss Branch; Paul Marschall, Irina Gaus, NAGRA (Switzerland)

   **Ichizo Kobayashi**, Kajima Corporation; Hitoshi Owada, Tomoko Ishii, Hitoshi Nakashima, Radioactive Waste Management Funding and Research Center (Japan)

   **Kazumi Kitayama**, Nuclear Waste Management Organization of Japan (NUMO) (Japan)

**SESSION 46**
Wednesday: 4:15pm - 6:00pm

NATIONAL AND INTERNATIONAL PROGRAMS FOR SPENT FUEL, FISSIONE, TRU, AND HLW MANAGEMENT (2.2)

**Co-Chairs:** Bernard Vigreux, Consultant (France)
Adrian Mendez-Torres, Savannah River National Lab (USA)

**Organizer(s):** Kanwar Raj and Hans Codee

**Reviewer(s):** Kanwar Raj and Bernard Vigreux

1. Implications of Co-existing National and Multinational Repository Development Programmes in Europe (wP – 59118)
   Neil A. Chapman, Charles McCombie, Aries Association (Switzerland); Ewoud Verhoef, Cova (Netherlands)

2. The UK Regulator’s Perspective (wP-59353)
   **Ryan Maitland**, Unit 2G Nuclear Installations Inspectorate (UK)

3. Establishment of Research and Development Priorities Regarding the Geologic Disposal of Nuclear Waste in the USA and Strategies for International Collaboration (wP – 59168)
   Mark Nutt, Mark Peters, Argonne National Laboratory; Peter Swift, Kevin McMahon, Sandia National Laboratories; Jeff Williams, U.S. DOE (USA)

4. The Cigéo Geological Repository Project (wP – 59265)
   Thibaud Labalette, Alain Harman, Marie-Claude Dupuis, Andra (France)

**SESSION 47**
Wednesday: 1:45pm - 3:30pm

RADIUM REMEDIATION - HISTORICAL PERSPECTIVES AND CURRENT CIRCUMSTANCES – PART 2 OF 3 (4.14)

**Co-Chairs:** Robert Zelmer, Atomic Energie of Canada Limited (Canada)
Gerald Ouzounian, Andra (France)

**Organizer(s)/Reviewers:** Robert Zelmer and Gerald Ouzounian

1. Port Radium Start to Finish Life Cycle A Case Study on Canada’s Historic Radium/Uranium Mine, Initial Operation and Closure, Concerns of the Aboriginal Déline People, Subsequent Assessments, Remediation (wP – 59332)
   **Gerd Wiatzka**, SEnES Consultants Ltd (Canada)

2. Challenges in Developing a Remediation Plan, Procurement Plan and Long Term Monitoring Program for the Former Port Radium Uranium Mine that Meets the Needs of the Community of Deline (wP– 59333)
   **Julie Ward**, Indian and Northern Affairs Canada (Canada)

**SESSION 48**
Wednesday: 4:15pm - 6:00pm

PANEL: RADIUM REMEDIATION - HISTORICAL PERSPECTIVES AND CURRENT CIRCUMSTANCES – PART 3 OF 3 (4.13)

**Co-Chairs:** Robert Zelmer, Atomic Energie of Canada Limited (Canada)
Gerald Ouzounian, Andra (France)

**Organizer(s):** Robert Zelmer and Gerald Ouzounian

An international panel will discuss and compare progress and history of national radium remediation programs. Lessons learned will be featured and shared. The outlook for the final closure on this issue worldwide will also be addressed. The perspectives and panelists invited include those from practitioners in government policy leadership, regulatory oversight and licensing, health and safety impacts and protection, environmental remediation practice and affected community stakeholders.

Panelists include: **Jean-Luc Lachaune**, ASN, France; **Gerd Wiatzka**, SEnES, Canada; Representative from Canadian Nuclear (invited); Representative from USA; and a Representative from Belgium (TBD)

**SESSION 49**
Wednesday: 1:45pm - 3:30pm

PANEL: COMMUNICATIONS AND KNOWLEDGE MANAGEMENT - PART 1 OF 2 (5.21)

**Co-Chairs:** Jim Marra, US DOE (USA)
Ian Seed, Cogentus Consulting Limited (UK)

**Organizer(s):** Jim Marra

This is a two part series on communications and knowledge management. Current efforts and views will be presented during this first session. This session is directly followed by the second part, Panel Session #50. Presenters will each provide a 10-15 minute overview to the audience before the break, and will then resume on this topic. Presenters include: **Laurie Judd**, NuVision Engineering; **Leonel Lagos**, Florida International University; **Yanko Yanev**, IAEA; **Andra** (Representative invited); **JAEA** (Representative invited); and **Fluor Corporation** (Representative invited)

**SESSION 50**
Wednesday: 4:15pm - 6:00pm

PANEL: COMMUNICATIONS AND KNOWLEDGE MANAGEMENT - PART 2 OF 2 (5.19)

**Co-Chairs:** Jim Marra, US DOE (USA)
Ian Seed, Cogentus Consulting Limited (UK)

**Organizer(s):** Jim Marra

This panel will provide strategies and lessons learned regarding general communications and knowledge management to a wide variety of target audiences, and discuss the earlier presentations. Communication and management of technical information is a challenging endeavor. Target groups for technical communications range from the general public with a cursory knowledge of the subject matter to highly technical personnel heavily engaged in the work scope. Communications to the general republic requires deft wording of technical content and use of attention-grabbing graphics and illustrations. Managing technical content for highly technical personnel requires thorough cataloging of subject matter and providing easy recall and use Presenters include: **Laurie Judd**, NuVision Engineering; **Leonel Lagos**, Florida International University; **Yanko Yanev**, IAEA; **Andra** (Representative invited); **JAEA** (Representative invited); and **Fluor Corporation** (Representative invited)
SESSION 51

Thursday: 8:30am - 12:30pm

SAFETY CONSIDERATIONS ASSOCIATED WITH LLW MANAGEMENT (1.14)

Co-Chairs: Stephen Wickham, Galson Sciences Limited (UK)
            Ian Crossland, Crossland Consulting (UK)

Organizer(s)/Reviewer(s): Stephen Wickham and Ian Crossland

1. UK LLWR Environmental Safety Case Submission 2011 (wp – 59135)
   Richard Cummings, John Shevelan, LLWR Ltd, Cumbria; Andrew Baker, Eden Nuclear and Environment Ltd.; Trevor Summerling, Safety Assessment Management Ltd.; Amy Huntington, LLWR Ltd. (UK)

2. An Assessment of The Radiological Impact Of Coastal Erosion Of The UK Low-Level Waste Repository (wp – 59137)
   Trevor Summerling, Safety Assessment Management Ltd.; Richard Cummings, John Shevelan, LLWR Ltd. (UK)

3. Development of a Methodology for Determining ILW Package Monitoring and Inspection Requirements (wp – 59156)
   Jenny E. Morris, Timothy W. Hicks, Stephen M. Wickham, Galson Sciences Limited; Antonio Guida, Colette Hunt, Babcock International Group; James McKinney, Nuclear Decommissioning Authority; W. Mark Tearle, Magnox Limited, (UK)

4. Mitigation of Sliding Motion of a Cask-Canister by Fluid-structure Interaction in an Annuar Region (wp – 59208)
   Tomohiro Ito, Atsuhiko Shintani, Chihiro Nakagawa, Osaka Prefecture University (Japan)

5. Different Types of Radioactive Waste Repositories, Each Suited for a Given Type of Radioactive Waste (wp – 59293)
   Sylvie Voinis, Fabrice Boisier, Lise Griffault, Jean Louis Maillard, Andra (France)

6. Indicators of Disposal System Safety, Performance and Functioning Applied to a Near-Surface Repository (wp – 59301)
   Dirk Mallants, Janne Perko, SCK.CEN (Belgium)

7. Identification of Factors Affecting the Longevity of Interim ILW Stores and Techniques Supporting Store Life Extension (wp – 59151)
   Jenny Morris, Stephen M. Wickham, Timothy W. Hicks, Phil. J. Richardson, Galson Sciences Limited; James McKinney, Nuclear Decommissioning Authority; W. Mark Tearle, Magnox Limited, Berkeley (UK)

8. Regulations, Policy and Strategies for Low Level Radioactive Waste Management in Bangladesh (wp – 59099)
   Abdis S Mollah, Bangladesh Atomic Energy Commission (Bangladesh)

   Timothy W. Hicks, Tamara D. Baldwin, Galson Sciences Limited, Richard Cummings, LLWR Ltd; Trevor Summerling, Safety Assessment Management Ltd. (UK)

SESSION 52

Thursday: 8:30am - 12:30pm

DISPOSAL SITE AND WASTE FORM CHARACTERIZATION AND PERFORMANCE ASSESSMENT - PART 2 OF 2 (1.20)

Co-Chairs: Donald Goebel, SEC (USA)
            Patricia Torres, Andra (France)

Organizer(s): Donald Goebel

Reviewer(s): Donald Goebel and Patricia Torres

1. Substitution of the Product Consistency Test (PCT) and Vapor Hydration Test (VHT) for Glass Durability (wp – 59022)
   Albert Kruger, US DOE WTP Engineering Division (USA)

2. Reaction of Bentonite in Low-Alkali Cement Leachates: Preliminary Results from the Cyprus Nuclear analogue Project (wp – 59223)
   W Russell Alexander, Bedrock Geosciences (Switzerland); Antoni E. Milodowski, British Geological Survey(UK); Costas A. Constantinou, Michael Rigas, Cyprus Geological Survey (Cyprus); Cherry Tweed, NDA-RWMD (UK); Patrik Sellin, SKB (Sweden); Petri Korkeakoski, Posiva Oy (Finland); Ignasi Puigdemontech, SKB (Sweden)

   John Shevelan, LLWR Ltd.; Nicholas Smith, National Nuclear Laboratory (UK)

4. In-Situ Interferometric Measurements of Compacted Smectite Under Hypertectaline Condition (wp – 59124)
   Hisao Satoh, Susumu Kurosawa, Mitsubishi Materials Corporation; Tomoko Ishii, Hitoshi Owada, Radioactive Waste Management Funding and Research Center(Japan)

5. A Process-Based Radionuclide Migration Model for Large-Scale Concrete Structures Accounting for Long-Term Physical-Chemical Parameter Evolution (wp – 59297)
   Janez Perko, Dirk Mallants, Diederik Jacques, SCK.CEN (Belgium)

   Joe Small, Christopher P. Lemon, Liam Abrahamsen, UK National Nuclear Laboratory; Andrew J. Baker, Low Level Waste Repository Ltd. (UK)

   Lee Hartley, Martin James, Peter Jackson, Matt Couch, Serco (UK)

SESSION 53

Thursday: 8:30am - 10:15am

GLOBAL PARTNERSHIPS AND NATIONAL INITIATIVES IN ENVIRONMENTAL MANAGEMENT - PART 1 OF 2 (5.13)

Co-Chairs: Michael Cull, Teledyne (USA)
            Mark Gerchikov, AMEC (Canada)

Organizer(s)/Reviewer(s): Michael Cull and Mark Gerchikov

1. The Global Partnership: its Achievements, Missed Opportunities and Potential to Address Future Threats from the Spread of CBRN Materials and Expertise (wp – 59335)
   Alan Heyes, Wyn Bowen, Hugh Chalmers, King’s College, London (UK)


SESSION 54

Thursday: 10:45am - 12:30pm

PANEL: GLOBAL PARTNERSHIPS AND NATIONAL INITIATIVES IN ENVIRONMENTAL MANAGEMENT - PART 2 OF 2 (5.20)

Co-Chairs: Michael Cull, Teledyne (USA)
            Mark Gerchikov, AMEC (Canada)

Organizer(s)/Reviewer(s): Michael Cull and Mark Gerchikov

1. The Global Threat Reduction Initiative’s Radiological Security Cooperation with Russia (wp – 59361)
   Tiffany Blanchard, US DOE; William Abramson, Lawrence Livermore National Laboratory; James W. (J.R.) Russell, National Security Technologies; Catherine Roberts, Pacific Northwest National Laboratory (USA)
   Michael J. Washer, Foreign Affairs and International Trade Canada (Canada)

3. Environmental Surveillance System for the Shchuchye Site (wP – 59042)
   Stephanie Belbeze, Mathieu Hallouin, ANTEA (France)

4. UK Contributions to the Decommissioning of the BN-350 Reactor in Kazakhstan:
   2002 – 2011 (wP – 59099)
   Steven Laws, Department of Energy and Climate Change (UK), David Wells and Andrew Herrick, Navia Limited (UK)

With the remaining time, a panel will provide a global perspective on the status of the clean-up of nuclear legacy sites in the North West and Far East Russia and lessons learned by key participants of the Global Partnership Program. The speakers will discuss best practice in international cooperation, meeting regulatory requirements and approaches to ensure safe management of spent nuclear fuel and radioactive waste. Speakers in this session will discuss their Global Partnership activities, and explore opportunities for future international collaboration.

SESSION 55

Thursday: 8:30am – 12:30pm

SAFETY AND SECURITY RELATED TO ENVIRONMENTAL AND NUCLEAR MATERIALS MANAGEMENT (5.11)
Co-Chairs: Natraj Iyer, SRNL (USA)
   Philippe Crochon, Areva (France)
Organizer(s): Adrian Mendez-Torres
Reviewers: Adrian Mendez-Torres and Philippe Crochon

   Chuan-Fu Wu, Terry Krietz, US. DOE (USA)

   David Wells, Andrew Herrick, Navia Limited (UK), Alexander Klepikov, Nuclear Technology Safety Center (Republic of Kazakhstan), Collin Knight, Idaho National Laboratory (USA)

3. The Desirability of MOX Fuel to Potential Proliferators (wP – 59215)
   Adrian Mendez Torres, Sean Branney, Nicholas Gallucci, Savannah River National Laboratory (USA)

SESSION 56

Thursday: 10:45am - 12:30pm

ADVANCED L/ILW TECHNOLOGIES - PART 2 OF 2 (1.21)
Co-Chairs: Pierre Van Iseghem, SCK-CEN (Belgium)
   Dominique Greneche, Consultant (France)
Organizer(s): Angie Jones
Reviewers: Pierre Van Iseghem and Dominique Greneche

1. New Trends in L/ILW Cementation (wP – 59290)
   Florence Bart, Christophe Joussot-Dubien, CE (France)

2. Lifetime Performance of ASME AG-1 Section FK Radial Flow Filters (wP – 59170)
   Charles Wagggoner, Michael Parsons, Paxton Giffen, Mississippi State University (USA)

3. Applying Fluid Dynamics Simulations to Improve Processing and Remediation of Nuclear Waste (wP – 59172)
   Kelly J Knight, Jon M. Berkoe, Brigette M. Rosendall, L. Joel Peltier, Bechtel National, Inc. (USA)

   Masamichi Obata, Yasushi Ooishi, Toshiba Corporation (Japan)

   Chris Chadwick, Porvair Filtration Group (UK)

SESSION 57

Thursday: 8:30am - 12:30pm

RECENT ADVANCES IN PROCESSING AND IMMOBILIZATION OF HLW, FISSILE AND TRU - PART 2 OF 2 (2.6)
Co-Chairs: James Blankenhorn, West Valley Environmental Services-URS (USA)
   Gerald Ouziunianm, Andra (France)
Organizer(s): Mark Denton and Bill WilmARTH
Reviewers: James Blankenhorn and Gerald Ouziunianm

1. Observations of the Environmental Management Experts Group (wP – 59352)
   Wolfgang Runde, Los Alamos National Laboratory; Anibal Taboas, Consultant (USA)

2. Iodine Conditioning as Iodate Ion in an Apatite-Like Ceramic (w/P – 59015)
   Lionel Campayo, CEA; Danielle Laurencin, Institut Charles Gerhardt de Montpellier; Agnès Grandjean, Institut de Chimie Séparative de Marcoule; Remy Delorme, CEA (France)

3. The Development, Testing and Demonstration of a New Class of Inorganic Ion Specific Media Emphasizing the Optimization, Stabilization and Volume Reduction of the Final Nuclear Waste Form (wP – 59126)
   Mark Denton, Kurion Inc.; William D. Bostick, MCL, Inc. (USA)

4. Cold Crucible Vitrification of High-Na/Al HLW Surrogate and Characterization of Borosilicate Glasses (wP – 59239)
   Sergey Stefanovsky, Michael Belty, Sergey Shvetsov, Dmitry Sunstov, Alexandra Soroksaketrova, Galina Malinina, SLA Radon (Russia)

5. Status of the Development of In-Tank/At-Tank Separations Technologies for High-Level Waste Processing for the U.S. DOE (wP – 59109)
   Bill WilmARTH, Savannah River National Laboratory; Nicholas P. Machara, US DOE Office of Technology Innovation and Development; Steve P. Schneider, US DOE Office of Waste Processing; Reid A. Peterson, Pacific Northwest National Laboratory (USA)

6. Separation Processes for the Pretreatment of High-Level Nuclear Wastes at the Savannah River Site (wP – 59291)
   David Hobbs, Thomas Peters, Kathryn Taylor-Pashow, Fernando Fondeur, Charles Nash, Samuel Fink, David Herman, Savannah River National Laboratory (USA)

7. The Design, Development and Demonstration of a New Modular Vitrification System (MVS®) for the Treatment of Nuclear Waste (wP – 59127)
   Mark Delon, Gaetan Bonhomme, Kurion Inc. (USA)

8. Structural Features of Vitrified High-Na/Al Fe Waste (wP – 59240)
   Sergey Stefanovsky, SLA Radon (Russia); Jim Marra, U. S. DOE; Kevin Fox, Savannah River National Laboratory (USA)

SESSION 58

Thursday: 8:30am - 12:30pm

D&D/RADIOLOGICAL CHARACTERIZATION AND MONITORING (3.5)
Co-Chairs: Maria Lindberg, Studsvik Nuclear AB (Sweden)
   Jean-Guy Nokhamzon, CEA/DEN/DADN (France)
Organizer(s)/Reviewers(s): Jas S. Devgun and Jean-Guy Nokhamzon

1. Quantifying Tc-99 Contamination in a Fuel Fabrication Plant (wP – 59024)
   Pete Burgess, Navia Ltd; Carol Darbyshire, Springfield Fuels Ltd. (UK)

2. Effect of Non-Uniform Distribution of Natural Radionuclides on Clearance Measurements of Concrete Scraps (wP – 59091)
   Michiya Sasaki, Haruyuki Ogino, Takeshi Ichiijji, Takatoshi Hatton, Central Research Institute of Electric Power Industry (Japan)
SESSION 60
Thursday: 8:30am - 12:00pm
BEST POSTERS OF ICEM2011 (6.1)
Co-Chairs: Anibal Taboas, Consultant (USA)
Dominique Greneche, Consultant (France)
Organizer(s): Gary Benda
This poster session highlights the top posters selected from each of the five Tracks of ICEM2011.

SESSION 59
Thursday: 8:30am - 12:30pm
RISK/PERFORMANCE ASSESSMENTS AND CONTAMINANT MIGRATION (4.7)
Co-Chairs: Gerd Wiatzka, SENES Consultants Ltd (Canada)
Didier Dubot, CEA/FAR/USLT/SPRE/SAS (France)
Organizer(s): Steve Brown and Didier Dubot
Reviewer(s): Gerd Wiatzka and Didier Dubot
1. Uncertainties on the Extension of a Polluted Zone (wP – 59198)
Chantal de Fouquet, Mines ParisTech - Ecole des mines de Paris (France)
Roger Seitz, Savannah River National Laboratory; Mark Freshley, Pacific Northwest National Lab; Susan Hubbard, Lawrence Berkeley National Lab; Mark Williamson, US DOE, Office of Environmental Management; Paul Dixon, Los Alamos National Laboratory; Kurt Gerdes, DOE EM; Yvette Collazo Reyes, USA DOE (USA)
3. Uranium Investigation in an Alluvial Aquifer with Direct Push Methods (w/oP – 59281)
Fabian De Weiridt, Geoprobe Environmental Technologies s.a. (Belgium)
4. Remediation Project Planning at the Uranium Production Legacy Sites. Lessons Learned from the Best International Practice and Challenges for Developing Countries (wP – 59043)
Oleg Voitsekhovych, Ukrainian Hydrometeorological Institute (Ukraine)

SESSION 60
Thursday: 8:30am - 12:00pm
BEST POSTERS OF ICEM2011 (6.1)
Co-Chairs: Anibal Taboas, Consultant (USA)
Dominique Greneche, Consultant (France)
Organizer(s): Gary Benda
This poster session highlights the top posters selected from each of the five Tracks of ICEM2011.

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Marc Butez, CEA (FRANCE)
Christopher Joussot-Dubien, CEA (FRANCE)

Track 2 - Spent Fuel, Fissile Material, Transuranic (TRU) and High-Level Radioactive Waste (HLW) Management
Heather Klebba, Nuclear Filter Technology (USA)
Gerald Ouzounian, Andra (FRANCE)

Track 3 - Facility Decontamination and Decommissioning (D&D)
Jas Devgun, Sargent & Lundy (USA)
Jean-Guy Nokhamzon, CEA (FRANCE)

Track 4 - Environmental Remediation (ER)
Steve Brown, SHB Consultants (USA)
Didier Dubot, CEA (FRANCE)
Sandrine Magdaliniuk, AREVA (FRANCE)
Jean-Guy Nokhamzon, CEA/DEN/DADN (FRANCE)

Track 5 - Environmental Management (EM)/Public Involvement/Crosscutting Issues/Global Partnering
Judith (Judy) Connell, Fluor (USA)
Regis Dalmas, EDF (FRANCE)
Yvette Collazo, US DOE (USA)
Ana Han, US DOE (USA)
Jim Marra, US DOE (USA)
Gerald Ouzounian, Andra (FRANCE)
Jean-Guy Nokhamzon, CEA/DEN/DADN (FRANCE)

We thank you for your commitment, time and support of ICEM’11

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### Tentative Schedule of Events

#### SUNDAY, SEPTEMBER 25, 2011 - TENTATIVE

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<th>Location</th>
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<tr>
<td>Exhibitor Set up</td>
<td>Hours pre-assigned</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
</tr>
<tr>
<td>Registration</td>
<td>4:00 - 7:00pm</td>
<td>RCC - 1st Floor</td>
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<tr>
<td>Author/Panelist/Co-Chair Check-in</td>
<td>4:00 - 7:00pm</td>
<td>RCC - 1st Floor</td>
</tr>
<tr>
<td>Golf Tournament</td>
<td>7:30am - 3:00pm</td>
<td>Le Golf de Reims Champagne</td>
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<tr>
<td>Welcome Reception</td>
<td>6:00 - 7:30pm</td>
<td>RCC - 1st Floor</td>
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#### MONDAY, SEPTEMBER 26, 2011 - TENTATIVE

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<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Registration</td>
<td>7:15am - 6:00pm</td>
<td>RCC - 1st Floor</td>
</tr>
<tr>
<td>Speakers Briefing</td>
<td>7:30 - 8:00am</td>
<td>RCC - 1st Floor</td>
</tr>
<tr>
<td>Exhibitor Set up</td>
<td>8:00 - 11:00am</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
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<tr>
<td>Author/Panelist/Co-Chair Check-in</td>
<td>8:00am - 6:00pm</td>
<td>RCC - 1st Floor</td>
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<tr>
<td>Speakers Ready Area</td>
<td>7:15am - 5:00pm</td>
<td>RCC - 2nd Floor</td>
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<tr>
<td>Welcome Reception</td>
<td>6:00 - 7:30pm</td>
<td>RCC - 1st Floor</td>
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<tr>
<td>Exhibition Open</td>
<td>12:00 - 6:00pm</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
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<tr>
<td>Coffee Service - Pre Opening Session</td>
<td>8:00 - 9:30am</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
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<tr>
<td>Monday Morning Opening Session</td>
<td>9:00am - 12:30pm</td>
<td>RCC - 2nd Floor</td>
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<tr>
<td>Poster Session</td>
<td>8:30am - 5:45pm</td>
<td>RCC - 1st Floor</td>
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<tr>
<td>Coffee Break</td>
<td>10:30 - 11:00am</td>
<td>RCC - 1st Floor</td>
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<tr>
<td>Lunch</td>
<td>12:30 - 1:40pm</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
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<tr>
<td>Sessions</td>
<td>1:45 - 6:00pm</td>
<td>RCC - 2nd Floor</td>
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<tr>
<td>Coffee Break</td>
<td>3:30 - 4:10pm</td>
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#### TUESDAY, SEPTEMBER 27, 2011 - TENTATIVE

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<tr>
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<td>Exhibit Hall Hours</td>
<td>8:30am - 7:30pm</td>
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<tr>
<td>Sessions</td>
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<tr>
<td>Poster Session</td>
<td>8:30am - 5:45pm</td>
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<tr>
<td>Coffee Break</td>
<td>10:15 - 10:40am</td>
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<tr>
<td>Lunch</td>
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<tr>
<td>Sessions</td>
<td>1:45 - 6:00pm</td>
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<tr>
<td>Coffee Break</td>
<td>3:30 - 4:10pm</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
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<tr>
<td>Tuesday Reception</td>
<td>6:00 - 7:30pm</td>
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#### WEDNESDAY, SEPTEMBER 28, 2011 - TENTATIVE

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<td>Speakers Briefing</td>
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<tr>
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<td>Coffee Break</td>
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<td>RCC - Exhibition Hall, 1st Floor</td>
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<td>Lunch</td>
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<td>Sessions</td>
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<td>Coffee Break</td>
<td>3:30 - 4:10pm</td>
<td>RCC - Exhibition Hall, 1st Floor</td>
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<tr>
<td>Wednesday Banquet</td>
<td>7:00 - 11:00pm</td>
<td>Champagne De Castelnau Caveau</td>
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#### THURSDAY, SEPTEMBER 29, 2011 - TENTATIVE

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<tr>
<td>Coffee Break</td>
<td>10:15 - 10:40am</td>
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<tr>
<td>Conference Ends</td>
<td>12:30pm</td>
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