

Association of the Radiation Protection Technics and Sciences



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5th EUROPEAN RADIATION PROTECTION FORUM

Organized by the A.T.S.R

Techniques Dismantling Methods and Radiation

Changing practices and tools
Feedback and know-know

5, 6 and 7 October 2016

Palais des Congrès – La Grande Motte – France

PROGRAM



with the support of

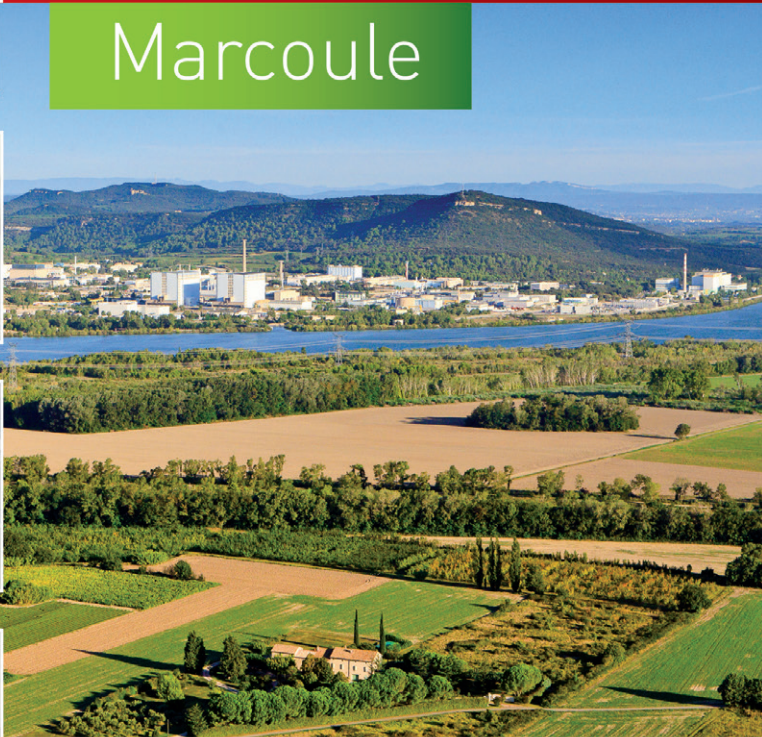


Website forum: alphavisa.com/atstr/2016

Energies for the Future



Marcoule



The French Atomic Energy and Alternative Energies Commission is active in **four main sectors**: low-carbon energy, defense and security, information technologies, and healthcare technologies. It employs **15 000 people at 10 sites in France**. CEA Marcoule is an international reference site for nuclear fuel cycle research and for decommissioning of legacy facilities.

CEA - Site de Marcoule - Tel. 04 66 79 60 00
Pour en savoir plus : www-marcoule.cea.fr et www.visiatome.fr



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Presentation of the Forum

On the occasion of its 50th Anniversary, the A.T.S.R is holding its **5th Radioprotective*** European Forum on the theme of Decommissioning. Six years after the success of its previous edition, we believe that it would be useful to provide an update on the companies, methods and tools currently being used.

Dismantling a plant or a site is a key milestone that involves many actors and partners as well as related companies, methods and savoir-faire. In order to reach this milestone successfully, it is important to demonstrate the ability to master the following: Safety, Security, Economic and Media related stakes, Technical and Human challenges.

Radiophysicists must adapt to the wide range of partners and activities that always require more performing tools. It is also necessary to take radiation protection into account as early as possible and as much as possible, in the earliest days of a project to ensure appropriate monitoring both of plants and employees and to limit radiological impacts.

The objective of this event is to offer all professionals of the nuclear industry the opportunity to discuss specific themes such as challenges of decommissioning operations, feedbacks, tools and techniques used to ensure compliance with radiation safety requirements.

The Organizing Committee

** **Radioprotective:** Consistency between nuclear related means and methods in order to improve radiation safety. Sciences and technics applied to ensure the latest consistency. (This term was first used at the 1st forum arranged by the A.T.S.R, which took place in Port-Camargue, France, in 1987.)*

Forum organization

This forum is held by the Association of Techniques and Sciences of Radiation Protection, with the support of:

- **P.V.S.I (Industrial Site Enhancement Centre)**
- **CEA**
- **Occitanie Pyrénées-Méditerranée Region**

Organizing committee

General organization: Bruno Rostello

Communication: Jean-Luc Leborgne

Exhibition: Fabrice Montreuil

Demonstrations: Frédéric Bordas and Christophe Durain

Posters: Joël Chardin

Other members: Laurence Boisset

Administrative secretariat

Registration, accommodation, sponsoring/exhibition:

Alpha Visa Congrès / ATSR 2016

624, rue des Grèzes - 34070 Montpellier - France

Tel: +33 4 67 03 03 00 - Fax: +33 4 67 45 57 97

Forum website & online registration:

<http://alphavisa.com/atsr/2016>

Program

Tuesday 4 October 2016

14:00-18:00 Welcome and set up for exhibitors and demonstrators

18:00 Welcome drinks for exhibitors and demonstrators

Wednesday 5 October 2016 - Morning

07:30-09:00 Welcome and registration for participants

09:00-09:45 INAUGURAL SESSION

Forum opening by the A.T.S.R President and its honorary Presidents

Bruno Rostello - A.T.S.R President

Philippe Guiberteau - P.V.S.I President and Director CEA Marcoule

Alain Vandercruyssen - Decommissioning Operations and Service Director - Areva France

09h45-10h00

Remise des diplômes Master Management assainissement nucléaire et valorisation des sites industriels

Philippe Guiberteau - P.V.S.I President and Director CEA Marcoule

Parrainage de la nouvelle promotion

Laurence Piketty - Director of DADN - CEA

10:00-10:50

Inauguration of exhibition and demonstration area Coffee break

10:50-11:50

SESSION 1 - Chair: Gilles Bordier - Directeur adjoint CEA Marcoule ORGANISATION OF DISMANTLING OPERATIONS - REGULATION

10:50-11:10

General presentation of the Decommissioning and Dismantling ('A&D') operations at the CEA

Laurence Piketty - Director of DADN - CEA

11:10-11:30

The Nuclear Safety Authority (ASN) and the control of decommissioning and dismantling operations

Julien Vieuble - Nuclear Safety Officer, Marseille District - ASN

11:30-11:50

Evolution of the regulation - Thierry Lahaye - Ministère du Travail

12:00-13:45

Lunch - Exhibition & Posters

Wednesday 5 October 2016 - Afternoon

- 13:45-14:45** **SESSION 2 - Chair: *Thierry Lahaye - DGT***
APPLICATION OF THE REGULATION - TRAINING
- 13:45-14:05** **Organization of CEA Radiophysicists - Security integrated to work station**
Laurence Fusil - DPSN - CEA
- 14:05-14:25** **Radiation protection certification - Lessons learnt**
Alexandre Filali - Qualianor Certification
- 14:25-14:45** **Evolution of training for decommissioning and dismantling activities**
Michel Tachon - Project Manager INSTN - CEA
-
- 14:45-15:45** **DEMONSTRATIONS - WORKSHOPS**
- 14:45-15:15** **Demonstration n°1: Group A**
Dry milling and samples taking of reinforced concrete - *Tyrolit*
- Demonstration n°2: Group B**
Riana automate - *Areva*
- Demonstration n°3: Group C**
Demplus - 3D model of construction site - *Oreka*
- Demonstration n°4: Group D**
Gamma camera IPIX - *Canberra*
-
- 15:15-15:45** **Demonstration n°2: Group A**
Riana automate - *Areva*
- Demonstration n°3: Group B**
Demplus - 3D model of construction site - *Oreka*
- Demonstration n°4: Group C**
Gamma camera IPIX - *Canberra*
- Demonstration n°1: Group D**
Dry milling and samples taking of reinforced concrete - *Tyrolit*
-
- 15:45-16:30** **Coffee break - Exhibition & Posters**
-
- 16:30-17:50** **SESSION 3 - Chair: *Serge Perrot - Directeur Général - D&S Areva***
DISMANTLING OPERATIONS IN PRESENCE OF ASBESTOS
- 16:30-16:50** **Les enjeux d'un chantier amiante**
Estelle Jondeau - Correspondante amiante Marcoule
- 16:50-17:10** **Asbestos removal at Marcoule testing site (APM)**
Christian Camus - CMCI and Antoine Sorin - CEA/DPAD/CM2A
- 17:10-17:30** **Taking account of asbestos risk by the SPR**
Antoine Vang - SPR CEA Marcoule
- 17:30-17:50** **Asbestos in nuclear zone - Patrick Aubert - D&S Alfadir**
-
- 18:00** **Welcome cocktail** *Hall of the Palais des Congrès*

Thursday 6 October 2016 - Morning

- 08:45-10:05** **SESSION 4 - Chair: *Dorothee Conte* - ASN**
LESSONS LEARNT ON DISMANTLING OPERATIONS
- 08:45-09:05 **Lessons learnt on wastes retrieval operation stored near surface**
Jean-Baptiste Porcher - DEN/DSN/SIAD/LAPE - CEN Cadarache
- 09:05-09:25 **Lessons learnt on radiation protection during decommissioning and dismantling operations of a Nuclear Licensed Site - NLS 106 LURE**
Jean-Michel Horodyski - Responsible for radiation protection IRSN/CNRS
- 09:25-09:45 **Results of 15 years of radiation protection on dismantling sites**
Georges Boutet and Joël Chardin - Radioprotection - Areva Marcoule
- 09:45-10:05 **Dismantling of the SVAFO research reactors R2 & R2-0 in Sweden**
Uwe Arnold - Areva GmbH
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- 10:05-10:50** **Coffee break - Exhibition & Posters**
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- 10:50-12:10** **SESSION 5 - Chair: *Laurence Fusil* - SFRP**
TOOLS AND METHODS 1
- 10:50-11:10 **Dynamic containment of ventilation system - Presentation of the SMART-DOG tool**
Jérôme Ducos - Expert in ventilation system DPAD/CMET CEA Marcoule
- 11:10-11:30 **Nuclear zoning cartography realised from helicopter and drone**
Marine Wansek and Bernard Bodier - CEA/DAM/DIF and INTRA Group
- 11:30-11:50 **Labo In Situ pour la caractérisation d'échantillons sur chantier de démantèlement**
Quentin Bouzac - Areva D&S - Division REM
- 11:50-12:10 **Calculation codes used by radiophysicists**
Alain Vivier - CEA INSTN Saclay Ltd
-
- 10h50-12h10** **SESSION DE FORMATION**
Intervenant : *Jean-Paul Piferrer* - *Medicontrôle-NetPCR*
RADIOPROTECTION DES TRAVAILLEURS
-
- 12:10-13:45** **Lunch - Exhibition & Posters**

Thursday 6 October 2016 - Afternoon

- 13:45-14:45** **SESSION 6 - Chair: *Fabrice Malacrida - Association Romande de Radioprotection***
WASTES AND CHARACTERISATION
- 13:45-14:05** **Radiological characterisation of 232 Synchrotron Proton coils (PS) from CERN and for evacuation to ANDRA**
Francesco La Torre - Radio Physicist CERN Group
- 14:05-14:25** **Radwaste packaging - Pascale Briuelle - CEA Marcoule**
- 14:25-14:45** **Means for radiological zoning - Philippe Girones - CEA Marcoule**
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- 14:45-15:45** **DEMONSTRATIONS - WORKSHOPS**
- 14:45-15:15** **Demonstration n° 3: Group A**
Demplus - 3D model of construction site - *Oreka*
- Demonstration n°4: Group B - Gamma camera IPIX - Canberra**
- Demonstration n°1: Group C**
Dry milling and samples taking of reinforced concrete - *Tyrolit*
- Demonstration n°2: Group D - Riana automate - Areva**
-
- 15:15-15:45** **Demonstration n°4: Group A - Gamma camera IPIX - Canberra**
- Demonstration n°1: Group B**
Dry milling and samples taking of reinforced concrete - *Tyrolit*
- Demonstration n°2: Group C - Riana automate - Areva**
- Demonstration n°3: Group D**
Demplus - 3D model of construction site - *Oreka*
-
- 15:45-16:30** **Coffee break - Exhibition & Posters**
-
- 16:30-18:10** **SESSION 7 - Chair: *Serge Roudil - DUSP - CEA Marcoule***
TOOLS AND METHODS 2
- 16:30-16:50** **Kartotrak, an integrated software as answer**
Yvon Desnoyer - Geovariances Ltd
- 16:50-17:10** **3D simulation of the ALARA approach**
Luc Ardellier - Oreka Solutions Ltd
- 17:10-17:30** **Manuela, l'instrument de mesure cartographique (3D) et radiologique en temps réel**
Benjamin Chagneau - D&S Direction Technique
- 17:30-17:50** **Site characterisation - Patrice Letessier - Eichrom and Vincent Goudeau - CEA**
- 17:50-18:10** **Measures and expertise - Xavier Ducoux - Canberra Ltd**
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- 16:30-18:10** **SESSION DE FORMATION**
Intervenant : *Jean-Paul Piferrer - Medicontrol-NetPCR*
RADIOPROTECTION DES TRAVAILLEURS
-
- 19:15** **Departure bus for the Gala diner (in front of the Palais des Congrès)**

Friday 7 October 2016

09:00-10:00	SESSION 8 - Chair: <i>Christian Bonnet - Directeur CEA Cadarache</i> ORGANISATION OF RADIATION PROTECTION
09:00-09:20	Joint ventures <i>Benoît Marc - D&S Ltd</i>
09:20-09:40	Rendre visible l'invisible pour une meilleure radioprotection sur toute la vie des installations nucléaires <i>Jérôme Jaubert - UNIE-GRPE-RP - EDF</i>
09:40-10:00	Implementation of the radiation protection european directive at CERN <i>Doris Forkel-Wirth - Radiation Protection Group Manager - CERN</i>
10:00-10:45	Coffee break - Exhibition & Posters
10:45-12:05	SESSION 9 - Chair: <i>Serge Blond - EDF - DPI</i> TOOLS AND METHODS 3
10:45-11:05	Cador, an structured method applied to the implementation of biological protections <i>Jean-Christophe Bertin - EDF-DPI-DPN</i>
11:05-11:25	Maintenance and upgrade of the CERN particle accelerator : optimisation of maintenance operations in radioactive zone <i>Jean-Louis Grenard - Engineering Department - CERN</i>
11:25-11:45	Radiological investigation by dosimeter OSL/FO <i>Sylvain Magne - CEA Saclay and Pierre Guy Allinei - CEA Cadarache - DEN-DTN-STMA - LMN</i>
11:45-12:05	Dismantling of major-sized components at Phenix power plant <i>Anne-Marie Roux and Philippe Bruguier - CEA Phenix Marcoule</i>
12:05-13:45	Lunch
13:45-15:30	SESSION 10 - Chair: <i>Carole Viallesoubranne - Chef du SPR CEA Marcoule</i> TOOLS AND METHODS 4
13:45-14:05	Innovation for measures and control operations <i>Stéphane Dogny - Areva Marcoule</i>
14:05-14:25	Dosimétrie opérationnelle couplée à l'outils IMPACT : un outils ALARA <i>Gérald Dumont - Radiation Protection Engineering Group - CERN</i>
14:25-14:45	Sampling of irradiates <i>Marie Grasset and Jean-Pascal Raymond - Nuvia Ltd</i>
15:05-15:25	Double reading of the FLI <i>Michel Espagnan - Areva Marcoule</i>
15:30-16:00	CLOSING SESSION

Posters

Updated on 14/09/2016

Cadarache irradiation area: capacity of measures of expertises

Francis Begin - Radioprotection - CEA Cadarache

Dismantling techniques applied at the KNK Compact Sodium Cooled Pilot Reactor Karlsruhe

Christian Rupp - Kraftanlagen Heidelberg GmbH

Dismantling techniques applied at the WAK High Level Liquid Waste storage tanks

Laura Thimonier - Kraftanlagen Heidelberg GmbH

Nuclear dismantling in presence of asbestos

Thierry Ibagnes - CEA Marcoule

Radioprotection study of the workstation

Hélène Provens and Remi Troucher-Leydier - Radioprotection - CEA Cadarache

Télédosimétrie

Xavier Vallot - Radioprotection - CEA Cadarache

Methodology of radiologic characterizations of the premises after decontamination

Roland Zanon - Radioprotection - CEA Cadarache

Environmental monitoring

Fabrice Malacrida - Association Romande de Radioprotection

Provisional dose registry for working with exotic materials

Hélène Dozol - Radioprotection - CEA Cadarache

Décontamination nucléaire de surfaces à l'aide de Gels : avancées significatives récentes et perspectives à court et moyen termes

Alban Gossard - DEN/DTCD/SPDE/LPSD - CEA Marcoule

Contrôle sécurisé et fiabilisé des conteneurs de transport

Stéphane Dogny - Areva D&S - Direction Technique

Radiation Protection for Industrial Radiography activities at CERN

Cristina Adoriso, Nadine Conan, Valérie Tromel - HSE-RP CERN

Mesure du tritium libre (HTO) dans les matrices biologiques de l'environnement

Sylvain Lemius - Chef du LMAR - CEA Marcoule

Demonstration themes

Demonstration n°1: Outdoor

Dry Milling and samples taking of reinforced concrete

Tyrolit

Demonstration n°2: Indoor

Riana automate

Areva

Demonstration n°3: Indoor

Demplus - 3D model of construction site

Oreka

Demonstration n° 4: Indoor

Gamma camera IPIX

Canberra

Demonstration on exposition area

Solution innovante “GLOBall” pour l’investigation en milieu hostile, à distance avec résultats et applications cartographie

Marie-Anne Lissandre and Aurélien Ballier - ISYmap

Exhibition floor plan

Updated on 14/09/2016



Modification of the program can occur upon decision of the Executive Board

Acknowledgments

Updated on 14/09/2016

The Organizing Committee would like to thank sponsors and exhibitors for their support of the 5th European Radiation Protection Forum



Presentation of the A.T.S.R

The Association of Techniques and Sciences of Radiation Protection

Located: 47, rue Louis Pasteur - Leuville-sur-Orge - 91310 Montlhéry - France

Aim of the association:

- act as coordinator between members of the association and other professionals interested in technical and scientific challenges involved in usage of ionising radiation,
- support, as far as possible, radiation protection R&D (Research and Development),
- inform members of public about radiation protection means and objectives,
- provide with the highest quality of teaching services on radiation protection matters.

Resources of the association:

- quarterly publication of a magazine: Ionising Radiation,
- organization of conferences and scientific workshop,
- organization of work meetings,
- Website : www.atsr-ri.com

Members of the executive board:

- President founder: *Paul Genty*
- President: *Bruno Rostello*
- Vice-president: *Lionel De Padua, Laurent Douillet and Jean-Paul Piferrer*
- Secretary-general: *Sandra Village*
- Treasurer: *Jérôme Laine*
- Deputy secretary-general: *Patrick Begou*
- Other members: *Jean-Luc Le Borgne, Philippe Bruguera, Jean-Jacques Monteil, Yvon Algoet and Serge Million*

Regional representatives:

Nord Île-de-France

Jérôme Laine

Sud Ouest

Christian Boudou

Bretagne Pays-de-Loire

Pierre Mens

Provence Côte d'Azur

Gilles Hofmann

Rhône Alpes

Michel Selva

Languedoc-Roussillon

Fabrice Montreuil

Abroad

Jean-Claude Gaborit