

NUCLEAR WASTE DISPOSAL: DESIGNING MATERIALS FOR THE END OF TIME

27-29 May 2015

Centre International Universitaire pour la Recherche
1, rue Dupanloup - 45000 Orléans



CONVENORS

- **Pr SCOTT KROEKER , LE STUDIUM® RESEARCH FELLOW**
on leave from University of Manitoba, Winnipeg, Manitoba -Canada - in residence at CEMHTI (Conditions Extrêmes et Matériaux : Haute Température et Irradiation UPR3079 CNRS) Orleans, France.
- **Dr Pierre FLORIAN**
CEMHTI (Conditions Extrêmes et Matériaux : Haute Température et Irradiation UPR3079 CNRS) Orleans, France

MAIN TOPICS OF THE CONFERENCE

- long-term safety of nuclear disposal
- structure-property relationships in wastefoms
- spectroscopic characterisation of wastefoms (e.g., NMR, XAS)

INTRODUCTION

The effective disposal of high-level nuclear waste is a unique challenge due to the extremely long timescale required for some radioactive decay processes. Solutions to this problem require an unprecedented degree of foresight, as materials designed to encapsulate waste products must outlast their creators by many thousands of years. This conference will draw together specialists in various aspects of nuclear waste immobilization ranging from atomic-level characterization of wasteforms to global health and safety. In addition to formal presentations, attendees will be invited to participate in a facilitated discussion focusing on the role of fundamental science in long-term radioactive waste disposal. Thus, speakers will be asked to contribute not only as experts in their own fields, but also as citizens who have thought carefully about the larger societal context of their research. On a philosophical level, this conference may stimulate us to contemplate the limits of science in planning for the unforeseeable future.

CONFIRMED INVITED SPEAKERS

Dr. Catherine Bessada
CEMHTI-CNRS, Orléans, France

Dr. Etienne Vernaz
CEA, Marcoule, France

Dr. Thibault Charpentier
CEA, Saclay, France

Prof. Neil Hyatt

Immobilisation Sciences Lab, Sheffield, U.K.

Prof. Ian Farnan
University of Cambridge, U.K.

Dr. Odile Majérus
Chimie Paristech (ENSCP), Paris, France

<more to be announced>

CALL FOR POSTERS

Poster presenters need to submit an abstract of no more than 2000 characters (including spaces) by **30/04/2015**. The abstracts (electronic format only –pdf files) will be published in digital proceedings (USB flash-drive).

If you are interested in giving a poster, thank you for sending the title of your abstract and your text of abstract together with your affiliation and contact details to registration@lestudium-ias.fr as soon as possible.

PRACTICAL INFORMATION

Deadline for early registration: 25/04/2015

Deadline for registration: 22/05/2015

Dates of the conference: 27-29 May 2015

Location: Centre International Universitaire pour la Recherche – 1, rue Dupanloup, 45000 Orléans – France

Lodging: Hotel lists communicated upon registration

Language: English

CONTACT AND REGISTRATION

Registrations are open. Please consult the website of LE STUDIUM® for updates, details and registration form: <http://www.lestudium-ias.com>

To register, click on the “**LE STUDIUM® CONFERENCES**” link and then click on “**Registration form**” for this conference. Please fill in the Word document and then return the form via the website or by email to Justine Thévenot at registration@lestudium-ias.fr

Your participation will be validated upon receipt of your payment before **22/05/2015**. You can pay the registration fees (see table below) by PayPal services on LE STUDIUM website, via wire transfers using the reference **PG-SC39** (IBAN: FR76 1870 7004 3030 5212 3281 624 - BIC: CCBPFRPPVER) or by French bank checks sent to LE STUDIUM postal address in Orleans (1, rue Dupanloup – 45000 Orléans).

REGISTRATION FEES

Registration fees include: Conference attendance, lunches of **27 & 28/05/2015**, **lunch bags of 29/05/2015**, coffee breaks, and an USB key with the conference documents and a booklet of abstracts.

| Registration Fees | Early rate before 25/04/2015 | Rate After 25/04/2015 |
|---|------------------------------|-----------------------|
| Public institutions | 150€ | 250€ |
| Private institutions | 250€ | 350€ |
| Students (PhD included) | 75€ | 75€ |
| Conference dinner (formal gala dinner) on 28/05/2015 | 65€ | 65€ |

IMPORTANT DATES

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|------------|--|
| 22/05/2015 | Final registration and payment deadline |
| 27/05/2015 | Conference Begins at midday |
| 27/05/2015 | Public lecture in French by Public lecture speaker |
| 29/05/2015 | Conference ends at midday |

SYMPOSIUM ORGANIZATION

CONVENORS

- **Pr SCOTT KROEKER , LE STUDIUM® RESEARCH FELLOW**
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SCIENTIFIC COMMITTEE

- **Pr SCOTT KROEKER , LE STUDIUM® RESEARCH FELLOW**
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- **Professor Nicola Fazzalari (Scientific Director)**, LE STUDIUM® Loire Valley Institute for Advanced Studies, région Centre, France.

ORGANIZING COMMITTEE

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CEMHTI (Conditions Extrêmes et Matériaux : Haute Température et Irradiation UPR3079 CNRS) Orleans, France
- **Professor Nicola Fazzalari (Scientific Director)**, LE STUDIUM® Loire Valley Institute for Advanced Studies, Centre-Val de Loire Region, France
- **Sophie Gabillet (General Secretary)**, LE STUDIUM® Loire Valley Institute for Advanced Studies, Centre-Val de Loire Region, France
- **Amélie Schneuwly (Incoming Researchers)**, LE STUDIUM® Loire Valley Institute for Advanced Studies / University of Orleans, France
- **Justine Thévenot, Bleu Nuit (Events agency)**, Orleans, France

ORGANIZING INSTITUTION

- **LE STUDIUM®**, LE STUDIUM® Loire Valley Institute for Advanced Studies, Centre-Val de Loire Region, France