



IGD-TP 6th Exchange Forum

IGD-TP Working Group on RD&D Dissemination

Ray Kowe, RWM
Gunnar Buckau JRC

New Amba Hotel
London, 3rd November 2015



SecIGD2 work package scope

The SecIGD2 project consists of three main support action Work Packages (WP1-WP3) and a project management Work Package (WP4). RWM participate in all Work Packages (1-4).

- Work Package 1 (WP1) IGD-TP Secretariat Operations management and coordination of Activities.
- **Work Package 2 (WP2) Support for networking, structuring and developing RD&D competences in countries with less advanced geological disposal programmes.**
- Work Package 3 (WP3) Support for the development, implementation and coordination of Competence Maintenance, Education and Training (CMET) activities in geological disposal.
- Work Package 4 (WP4) SecIGD2 Project Management.



Work Package 2 (WP2) "Support for networking, structuring and developing RD&D competences in countries with less advanced geological disposal programmes"

The specific aim of this Work Package is:

- To set up a Working Group (WG) to support the networking, structuring and developing RD&D competences in countries with less advanced geological disposal programmes.
- Develop a draft guidance document in support of RD&D planning needs of National Programmes for geological disposal of radioactive waste.
- Organise two international conferences (2014, 2015) for disseminating the public scientific and technical information and results derived from the IGD-TP's Joint Activities and from other RD&D efforts in the field of geological disposal



Working group participants

- Marie Garcia (IGD-TP, France)
- Claudia Vivaldi (Nidia srl, Italy)
- Nadja Železnik (Regional Environmental Center, Slovenia)
- Ray Kowe (RWM, UK)
- Tara Beattie (MCM-Int'l, UK)
- Jacques Delay (IGD-TP, France)
- Gunnar Buckau (JRC, Germany)
- Christophe Davies (EC, Belgium)
- Daniela Diaconu (Institute for Nuclear Research, Romania)
- Rosa Lo Frano (University of Pisa, Italy)
- Ewoud Verhoef (Covra, Netherlands)
- Crina Bucur (Institute for Nuclear Research, Romania)
- Mireia Grivé (Amphos21, Spain)
- Richard Poisson (Andra, France)
- Jan Gugala (SKB, Sweden)
- Lara Duro (Amphos21, Spain)
- Jozef Balaz (JAVYS, Slovakia)
- Milan Gabalec (JAVYS, Slovakia)
- Zdenko Vrankic (Fund for the decommissioning of the Krsko NPP, Croatia)
- Darius Justinavicius (Lithuanian Energy Institute)
- Balázs Molnár (PURAM, Hungary)

Working group participants



IGD-TP Geodisposal 2014

'The IGD-TP conference on the Strategic Research Programmes for the Implementation of Deep Geological Disposal of Radioactive Waste in Europe'

The University of Manchester, 24th-26th June 2014



Rationale

The 'Implementing Geological Disposal – Technology Platform (IGD-TP)' consists of a group of waste-management organisations from several European countries. Their common vision is that by 2025 the first geological disposal facilities for spent fuel, high-level waste and other long-lived radioactive waste will be operating safely in Europe. This conference is a new forum for researchers in this area to present their work.

The sessions in IGD-TP Geodisposal 2014 will cover:

- Biosphere
- Engineered Barriers
- GDF Design and Safety Case
- Geosphere
- Less advanced programmes
- Monitoring
- Radionuclide and gas behaviour
- Radionuclide biogeochemistry
- Societal aspects
- Waste inventory, characterisation and acceptance criteria
- Waste forms and criticality

Objectives

The IGD-TP Geodisposal 2014 Conference focus will be to:

- Showcase the underpinning science, technology and stakeholder engagement in geological disposal
- Engage the countries with 'less-advanced' programmes and share best practice in geological disposal research and implementation

Registration

£270 full delegate; £100 students; includes B & B accommodation, conference dinner and all sessions.

Full bursary available for less advanced programme delegates (before April 30th 2014).

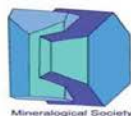
Timeline

Oct 2013	Registration opens
Jan 31 st 2014	Abstracts for presentations due
April 30 th 2014	Deadline for early and less advanced programme bursary registration

Contact: Dr Raymond Kowe, geodisposal2014@manchester.ac.uk



RSC | Advancing the Chemical Sciences



The Geological Society

serving science & profession

MANCHESTER
1824

The University of Manchester



Mineralogical Society Magazine



Authors should have had final proofs for checking

Publication date for open access November 2015

<http://minmag.geoscienceworld.org/>



Working group activities (May 2013 – Feb 2015)

- 3 Meetings of the Working Group
- Composed, sent out and evaluated questionnaire aimed at gathering understanding of different countries current RD&D needs - September 2013
- Drafted RD&D Guide - October 2014
- Draft document issued to obtain feedback on Guide usability, content and identify improvements / additional information:
 - target users (i.e. programme owners and managers working within or on behalf of waste management organisations)
 - questionnaire responders
 - issue on Project Place for additional feedback by IGD-TP community (including IGD-TP Executive Group)
- Re-drafted RD&D Guide taking all review comments into account February 2015



IGD-TP RD&D Guide

Guide produced by IGD-TP to support less-advanced programmes to respond to Article 12 (1,F) of Waste Directive - *'to set-out RD&D activities that are needed in order to implement national policies for the responsible and safe management of spent fuel and radioactive waste'*:

- RD&D activities needed during early phases of programme management
- Focussed on deep geological disposal of long-lived radioactive wastes (i.e. not shallow / near-surface disposal of short-lived wastes OR interim storage / processing options)
- Implementer / WMO-led perspective
- Methodology and framework for developing national RD&D plan (it is not an definitive list of RD&D tasks that should be copied)



SecIGD2 Project

(Contract Number: **323260**)

RD&D Planning Towards Geological Disposal of Radioactive Waste DELIVERABLE (D-Nº: **2.3**) Guidance for less-advanced Programmes

Author(s): T. Beattie, R. Kowe, J. Delay, G. Buckau, D. Diaconu

Reporting period: e.g. 01/01/2013 – 30/06/2015

Date of issue of this report: **DRAFT V0.4 (27th February 2015)**

Start date of project: **01/01/2013**

Duration: **36 Months**

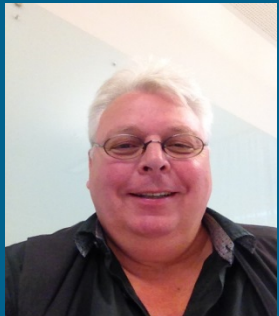
Project co-funded by the European Commission under the Seventh Euratom Framework Programme for Nuclear Research & Training Activities (2007-2011)	
Dissemination Level	
pp	Restricted to other programme participants (IGD-TP participants by ProjectPlace) including the Commission Services



Key people in production of RD&D Guide



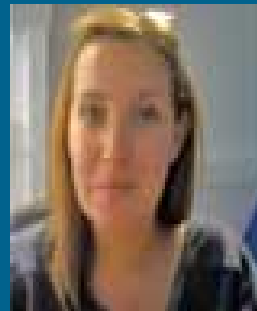
Jacques Delay
ANDRA (Fr) &
IGD-TP
Secretary



Gunnar Buckau
JRC & RD&D
Guide Co-
author



Daniela Diaconu
INR (Ro) &
RD&D Guide Co-
author



Tara Beattie
MCM & RD&D
Guide main
author



RAY Kowe
RWM (UK) &
PLANDIS
Chairman



CHARLES
McCombie
MCM & RD&D
Guide Co-
author



CHRISTOPHE
Davis EC &
RD&D Guide
Sponsor and
Reviewer



PLANDIS 2015 (PLANning geological DISposal of radioactive waste in Europe)



**PLANDIS
2015**
26 May 2015
Pitești, Romania



Rationale

The 'Implementing Geological Disposal – Technology Platform (IGD-TP)' is composed of European waste-management organisations with the common vision that "by 2025 the first geological disposal facilities for spent fuel, high-level waste and other long-lived radioactive waste will be operating safely in Europe". This workshop (PLANning geological DISposal of radioactive waste in Europe – PLANDIS) is part of an IGD-TP activity to network, structure and develop Research, Development and Demonstration (RD&D) programmes and competences in countries with less advanced geological disposal programmes.

Objectives

The aim of the PLANDIS workshop is to communicate and demonstrate a guidance document to support RD&D Planning for geological radioactive waste disposal.

It is expected that participants to this workshop would:

- ▶ Gain experience of ranking a list of potential RD&D tasks of direct relevance to their stage of geological disposal programme;
- ▶ Meet other professionals working on RD&D prioritization in a disposal programme at a similar stage to their own;
- ▶ Gain experience of completing the Guide template on RD&D prioritization to take away as useful input to own programme;
- ▶ Interact with experienced RD&D planners in a more 'informal' setting to ask questions and provide feedback on Guide.

Audience

The event will be of particular interest to Decision Makers, Disposal Programme Owners and managers, Waste Management Organizations, Technical Support Organizations, representatives of Civil Society and experts knowledgeable in Governance and involvement of Civil Society.

Registration and key dates

There are no registration fees for attendance at this workshop. However, you do still need to register to book your place (subject to confirmation).

March 15, 2015	Registration opens
May 15, 2015	Registration closes
May 26, 2015	Workshop

Contact secretariat@igdtp.eu

Venue

The workshop will be hosted by the Institute for Nuclear Research Pitești in Romania.

For details of workshop venue, travel and accommodation see:
www.igdtp.eu and www.nuclear.ro



The research leading to these results has received funding from the European Union's European Atomic Energy Community's (Euratom) Seventh Framework programme FP7 (2007-2013) under grant agreements n°249396, SecIGD, and n°323260, SecIGD2.



PLANDIS participants





Publication of Guide

- Re-draft guide to take into account feedback from PLANDIS early June 2015
- Approved for publication following IGD-TP Executive Group meeting 17 June 2015 and put on IGD-TP website
- Dissemination activities:
 - Nuclear 2015 conference, 28 May 2015, Romania
 - ERDO meeting, 11 July 2015, Slovenia
 - IGD-TP Exchange Forum 6, 3-4 November 2015, London
- Ongoing:
 - Several member states have used guide in formulation of their national RD&D programmes
 - Requests from PLANDIS attendees and newer member states to have more detailed breakdown of several of the guide topics
 - Continue to engage with less advanced programmes through joint programming (JOPRAD project)



THANK YOU!

