

Community Research



#### SACSESS

Collaborative Project (CP)

Co-funded by the European Commission under the Euratom Research and Training Programme on Nuclear Energy within the Seventh Framework Programme

> Grant Agreement Number : 323282 Start date : 01/03/2013 Duration : 36 Months



### Status of the second winter school

Authors : Bruce HANSON (Leeds University)

#### SACSESS - Contract Number: 323282 Safety of ACtinide Separation proceSSes EC Scientific Officer: R. Garbil

Document title	Status of the second winter school
Author(s)	Bruce HANSON
Number of pages	5
Document type	Deliverable
Work Package	WP 43
Document number	D43.2
Issued by	Leeds University
Date of completion	01/07/2015
Dissemination level	Public

#### Summary

The second school was run on the 4th to the 8th May 2015 (M25). The subject was plutonium laboratory management and was hosted by Chalmers

#### Approval

Date	Ву	Organization	Role
01/07/2015	HANSON Bruce	Leeds University	WPL
01/07/2015	HANSON Bruce	Leeds University	DML
07/07/2015	BOURG Stéphane	CEA	Coord

#### **Distribution list**

Name	Organisation	Comments
R. Garbil	EC DG RTD	Through the EC participant portal
All beneficiaries	SACSESS	Through the private online workspace





# D43.2 Status of the second winter school

Authors: Bruce C Hanson (Univleeds)

Keywords: D43.2

SACSESS – \_D43.2\_-\_status of the second winter school[1] by Univleeds

#### SACSESS project – Contract Number: 323282 Safety of ACtinide Separation proceSSes EC Scientific Officer: M. Hugon

Document title	Status of the second winter school
Author(s)	Bruce C Hanson (Univleeds)
Number of pages	5
Document type	Deliverable
Work Package	WP4.3
Document number	D43.2 – revision 1
Issued by	Univleeds
Date of completion	01/07/2015
Dissemination level	Public

#### Summary

The second "Winter" school was run on the 4th to the 8<sup>th</sup> May 2015. Hosted by Chalmers. 11 Students attended.

#### Approval

Rev.	v. Short description Second author		WP Leader	Coordinator	
0					

#### **Distribution list**

Name	Organisation	Comments	
	EC DG RTD		
All technical participants	SACSESS		
Governing board members	SACSESS		

### Table of contents

1 S	Summary of the 2 <sup>nd</sup>	SACSESS Winter	School	1
-----	--------------------------------	----------------	--------	---

## 1 Summary of the 2<sup>nd</sup> SACSESS Winter School

The second school was run on the 4<sup>th</sup> to the 8<sup>th</sup> May 2015 (M25). The subject was plutonium laboratory management and was hosted by Chalmers, who provided all the school materials, practical sessions and staff. A summary of the syllabus is as follows:

DAY 1 4th of May		DAY 2 5 <sup>th</sup> of May		DA 6 <sup>th</sup> o	DAY 3 6 <sup>th</sup> of May		DAY 4 7 <sup>th</sup> of May	
8:30-1	1:00	8:30	-10:30	8:30 -	8:30 -	8:30 -	8:30 -	8:30-10:00
				17:00	17:00	17:00	17:00	Summary
Lect	ure	Leo	cture	Group 1	Group 2	Group 2	Group 1	
			10:00 -	10:30 Coff	ee Break			
11:00-12:00	) Lecture	10:30-	10:30-					
		14:30	14:30					
		Group I	Group 2	00.12.00 1.				
12:00	12.00		12:	00-15:00 Li	inch		-	
13:00-	13:00-							
14.50 Group 1	14.50 Group 2							
Gloup I	Group 2							
15:00-	15:00-	15:00-	15:30-					
16:30	16:30	17:30	17:30					
Group 2	Group 1	Group 2	Group1					
16.00		10.0		17.1		17.00		
16:30		19:0	JU	17:1	5	17:00		
rfee ac	Free activities		Official Dinner		Social event at		Free activities	
				Cha	Imers			

Lectures included:

- Introduction to plutonium
- Plutonium analysis and detection
- Radiation protection

Students took part in three practical sessions, using plutonium, in Chalmers laboratories:

- Plutonium oxidation and extraction
- Separation of plutonium and americium
- Uranium oxide fuel production by the sol gel method

The school was attended by 11 students, from the following institutions:

- 1. Dominic Laventine Lancaster University
- 2. Elizabeth Howett Lancaster University
- 3. Suzanne Buckmaster Lancaster University
- 4. Holger Schmidt Forschungszentrum Jülich GmbH
- 5. James Goode University of Leeds
- 6. Jess Shiels University of Leeds
- 7. Charlotte Parrington University of Leeds
- 8. Pavel Bartl CTU
- 9. Iveta Pelikanova CTU

10. Annalisa OssolaPolitecnico di Milano11. Jessica BruinNuclear Research and Consultancy Group

Feedback from the school attendees indicated that it had been a good event to attend, with comments indicating that the opportunity to work with plutonium, in laboratory conditions, had been great. The students also indicated that all the staff at Chalmers had been very welcoming, knowledgeable and helpful.