

**HORIZON 2020
RESEARCH INFRASTRUCTURES**

H2020-INFRAIA-2014-2015

**INFRAIA-1-2014-2015 INTEGRATING AND OPENING EXISTING NATIONAL AND REGIONAL RESEARCH
INFRASTRUCTURES OF EUROPEAN INTEREST**



**ENSAR2
EUROPEAN NUCLEAR SCIENCE AND APPLICATION RESEARCH 2**

Grant Agreement Number: 654002

**D10.1:
JRA ON POSITION-SENSITIVE GERMANIUM DETECTORS: COMPLETION OF THE
KICK-OFF**

Version: 1.0
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Date: 30.01.2017

PROJECT AND DELIVERABLE INFORMATION SHEET

ENSAR2 Project Ref. N°	654002
Project Title	European Nuclear Science and Application Research 2
Project Web Site	http://www.ensarfp7.eu/
Deliverable ID	D10.1
Deliverable Nature	Report
Deliverable Level*	PU
Contractual Date of Delivery	February 28, 2017
Actual Date of Delivery	February 28, 2017
EC Project Officer	Mina Koleva

* The dissemination levels are indicated as follows: PU – Public, PP – Restricted to other participants (including the Commission Services), RE – Restricted to a group specified by the consortium (including the Commission Services). CO – Confidential, only for members of the consortium (including the Commission Services).

DOCUMENT CONTROL SHEET

Document	Title: Completion of the JRA2 PSeGe kick-off	
	ID: D10.1	
	Version 1.0	
	Available at: http://www.ensarfp7.eu/	
	Software Tool: Microsoft Office Word 2007	
Authorship	Written by:	Andres Gadea
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DOCUMENT STATUS SHEET

Version	Date	Status	Comments
0.1	31.01.2017	For internal review	
		For internal review	
		Submitted on EC Participant Portal	
		Final version	

DOCUMENT KEYWORDS

Keywords	ENSAR2, PSeGe – Coordination kick-off meeting, Setup of the website, scientific committee, kick-off workshop organisation, early personnel procurement
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Fig. 1: "INDICO" page of the First PSeGe collaboration Workshop and Kick-off

REFERENCES AND APPLICABLE DOCUMENTS

[1]

LIST OF ACRONYMS AND ABBREVIATIONS

PSeGe	Work Package 10: JRA on Position-Sensitive Germanium Detectors
MB	Management Board
R&D	Research and Development
HPGe	High-Purity Germanium
BSD, HV, LV	Bias Shutdown, High-Voltage power supply, Low-Voltage power supply
ULIV	University of Liverpool
CNRS	Centre national de la recherche scientifique
CSIC	Consejo Superior de Investigaciones Científicas
GSI	GSI Helmholtzzentrum fuer Schwerionenforschung GmbH
INFN	Istituto Nazionale di Fisica Nucleare
UOC	University of Cologne
CEA	Commissariat à l'énergie atomique et aux énergies alternatives
KTH	Kungliga Tekniska Högskolan

STFC	Science and Technology Facilities Council
ELI-NP	Extreme Light Infrastructure - Nuclear Physics facility

INTRODUCTION

The present PSeGe JRA within ENSAR2 will contribute to the R&D of detector technology for position-sensitive HPGe detector arrays. While the first developments were applied successfully and new devices have already been put into operation it is obvious that several aspects still require basic research and ongoing development. Key areas are detector production technology, basic characteristics of the novel detectors, electronic instrumentation and software developments. In particular, we will dedicate efforts:

- to investigate new technologies on passivation and segmentation,
- to perform R&D on novel Ge-detector geometries for ultimate position resolution and efficiency,
- to perform R&D on segmented p-type coaxial detectors, and finally
- to stimulate efforts on demonstration of imaging applications and associated detector technologies (demonstration of imaging applications, detector encapsulation techniques, low-power pre-amplifiers & cryostat R&D / BSD, HV, LV distribution, pulse-shape analysis and neutron-gamma discrimination)

The Collaboration will be strongly committed to the development of new applications especially in the field of high-resolution gamma-ray imaging. In this respect, the exchange of technologies and know-how is crucial to advance the expertise within our community. Task 4 of this JRA will be an important tool to reach these goals, as several European institutions will contribute with their specific expertise. In this way, the best resources already existing will be available for this work package and will be combined in pursuit of the ambitious future goals on detector technologies and applications in a timely and efficient manner.

PSEGE WEB SITE

The web site, <http://psege.inl.infn.it/>, has been created. Different pages contain the description of the tasks and committees; furthermore, announcements and news are posted. The site includes a link to a document server where the minutes of the different meetings and other useful documents can be uploaded (see Fig. 1).

PSEGE MANAGEMENT KICK-OFF MEETING

The PSeGe management kick-off meeting took place on Thursday, 30 June 2016 in San Servolo (Venice), Italy. Two main items were on the agenda:

- 1) Discussion and decision on the MB composition;
- 2) Leadership and composition of the Working Groups;
- 3) Organisation of the first PSeGe General Assembly meeting;
- 4) Discussion and decision concerning the first PSeGe workshop (place, format, programme, organisation,...)
- 5) AoB: INFN representative communicates INFN's decision to call for a R&D expert position for the project, as soon as the ENSAR2 funds would become available in Italy.

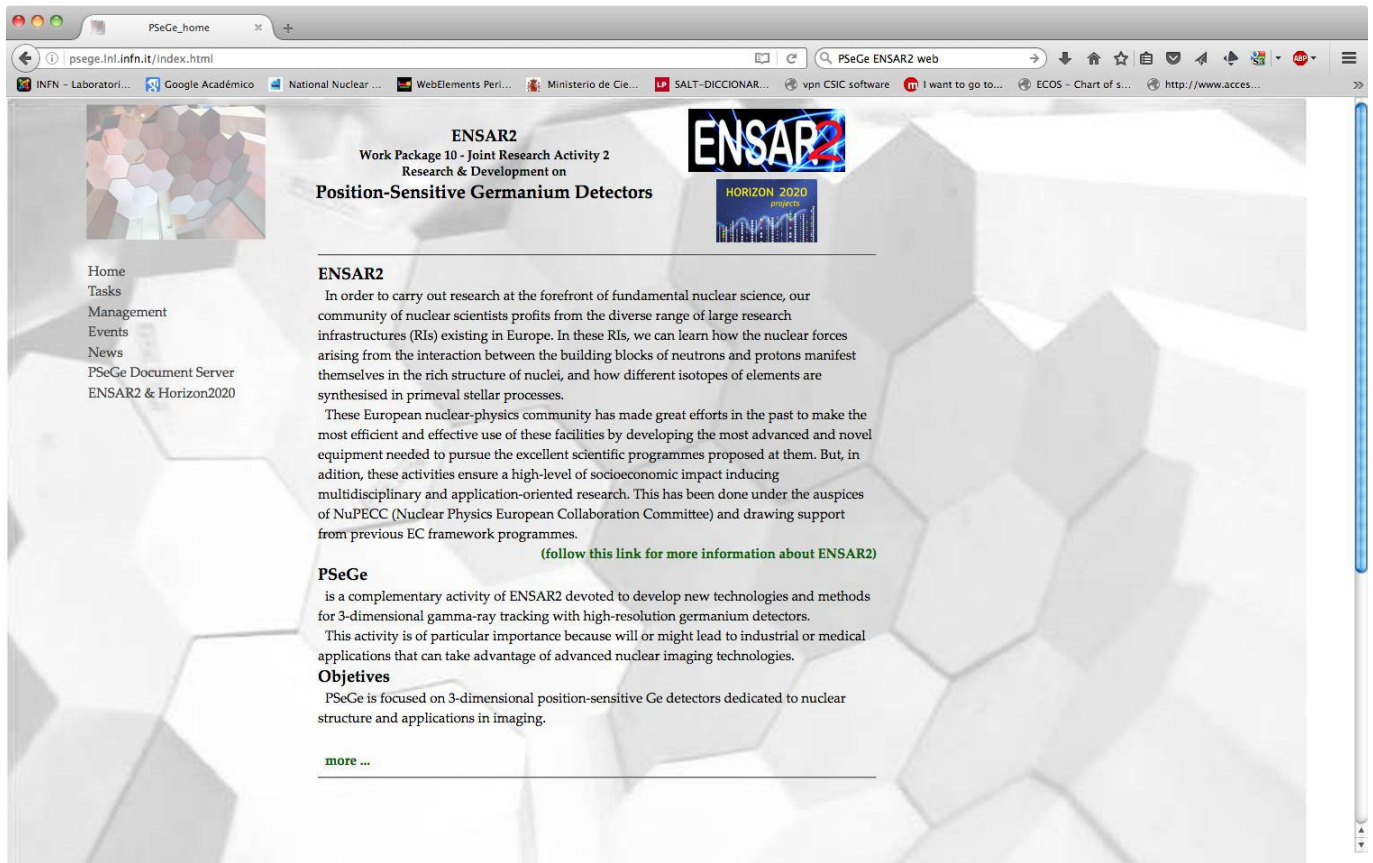


Figure 2: Homepage of the PSeGe Web site

MANAGEMENT BOARD AND GENERAL ASSEMBLY

The PSeGe has a single MB with the following representatives of the participating and collaborating institutions:

A. Boston (ULIV), G. Duchêne (CNRS), A. Gadea (CSIC), J. Gerl (GSI), D.R. Napoli (INFN), and P. Reiter (UCO).

The MB will be in charge of managing the PSeGe tasks aiming at the completion of milestones and objectives and at the preparation of deliverables.

The General Assembly will be formed with representatives of all participating and associated institutions: CSIC, INFN, University of Cologne, GSI, University of Liverpool, CNRS, CEA, KTH, University of Uppsala, University of Milan, STFC, University of Salamanca, University of Valencia, ELI-NP. The members of the MB will be the representatives of their institutions in the General Assembly.

KICK-OFF COLLABORATION WORKSHOP

The kick-off first PSeGe Workshop took place at IPNO and CSNSM, Orsay, France the 3rd and 4th of October 2016. The Workshop was named “**1st Position-Sensitive Germanium Detectors (PSeGe) Technology and Application Workshop**”. The event was organised in collaboration with the “17th AGATA Week” because of common interests and in order to maximise the participation in both meetings. Nevertheless, both workshops kept separated registrations and programmes.

The web page of the common event can be found at: <https://indico.in2p3.fr/event/13462/> a figure with the home page of the event can be seen in Fig. 2.

The PSeGe workshop has been divided in four sessions organised by each Working Group leader. In each of these sessions, talks about the state of the art and the proposed R&D programme were included, as can be seen in the web page <https://indico.in2p3.fr/event/13462/timetable/#20161003>

The number of participants was above 43 during the PSeGe workshop.

The last session of the PSeGe workshop has been devoted to the constitution and first meeting of the General Assembly. The General Assembly has discussed and approved the proposed Working Group scheme and strategies.

CONCLUSIONS

The kick-off of the Work Package 10 PSeGe has been completed. The main goal, i.e. establishing a JRA's web page, the MB and the organisation strategy of the first collaboration workshop have been reached successfully as can be seen from the participation of the involved community, the accomplishment of the first stated goals and the plans for the near future.

The screenshot shows a web browser window with the URL <https://indico.in2p3.fr/event/13462/>. The page title is "17th AGATA week and 1st Position Sensitive Germanium Detectors and Application Workshop". The dates are "3-7 October 2016" in the "Europe/Paris" timezone. The location is "CSNSM and IPN Orsay, France".

Overview

- Scientific Program
- Timetable
- Contribution List
- Author List
- Speaker List
- My Conference
- Registration
 - Modify my Registration
- Participant List
- Accommodation
- Travel Information
- Access to the Campus

This is the 17th AGATA week and the 1st Position Sensitive Germanium Detectors (PSeGe) technology and application Workshop to be held at CSNSM and IPNO Orsay from Monday 3rd to Friday 7th October 2016.

Welcome to Orsay!

Organizing committee : A. Korichi, D. Verney, D. Ralet and P. Pichot

Logos displayed include: CSNSM, IPN, CNRS, UNIVERSITÉ PARIS SUD, HORIZON 2020 projects, and AGATA (Advanced Gamma Tracking Array). A large "ENSAR2" logo is also present.

Starts 3 Oct 2016 14:00
Ends 7 Oct 2016 13:00
Europe/Paris

No material yet

Powered by Indico

Figure 3: "INDICO" page of the First PSeGe collaboration Workshop and Kick-off