

Review agreements between JUAS and Universities

AGREEMENT



between

EUROPEAN UNIVERSITIES

and

THE JOINT UNIVERSITIES ACCELERATOR SCHOOL (JUAS) FROM THE EUROPEAN SCIENTIFIC INSITUTE (ESI)

The European University described in Annex 1,

And

The Joint Universities Accelerator School hereafter referred to as "JUAS", organised by the European Scientific Institute hereafter referred to as "ESI", located bâtiment le Salève, Centre Universitaire de formation et de recherche, 155 rue Ada Byron, Archamps Technopôle, 74 166 Saint-Julien-en-Genevois Cedex (France), which for the purposes of signature of this agreement is represented by its President, Dr. Hans HOFFMANN,

Hereafter collectively referred to as "the Parties",

ANNEX 1



The University of: The University of Rostock

Located in: Rostock (Mecklenburg-Vorpommern, Germany)

Rostock University Agreement

Which for the purposes of signature of this agreement is represented by

Prof. Dr. med. Wolfgang Schareck, Rector

Acknowledged the present principle(s) as follows:

Students, who succeeded the examination, will receive a certificate from the School on which appears their results over 20. This certificate will be recognized by the above-mentioned University.

The University awards 10 ECTS for 1 course (5 weeks). The University awards 20 ECTS for 2 courses (10 weeks).

Established in two original copies and signed in Rostock on

For ESI

For the European University

Dr. Hans HOFFMANN, President

Prof. Dr. med. Wolfgang Schareck, Rector

20-11-2014

LIF. H. Mmc

27.10.2014

For the Joint Universities Accelerator School

Dr. Louis RINOLFI, Director

ANNEX 1



The University of: Technische Universität (TU) Darmstadt

Located in: Karolinenplatz 5, 64289 Darmstadt, GERMANY

Darmstadt University Agreement

Which for the purposes of signature of this agreement is represented by

Professor Dr. Hans Jürgen PRÖMEL, President

Acknowledged the present principle(s) as follows:

Students, who succeeded in the examination, will receive a certificate from the School.

Upon request of the student, the Department of Physics at TU Darmstadt may recognize JUAS courses towards the Master's programs "Physik" or "Technische Physik" if compatible with the student's plan of studies.

Established in two original copies and signed in Darmstoolt on 081011 2014

For ESI

For Technische Universität Darmstadt

Dr. Hans HOFFMANN, President

Professor Dr. Hans Jürgen PRÖMEL, President

LIF. U.M.

For the Joint Universities Accelerator School

Dr. Louis RINOLFI, Director

Busto



Status of UK universities





Status of German universities









Berlin universities





Prof. Heino Henke



Priv.-Doz. Dr. Atoosa Meseck

Institute Accelerator Physics



(030) 8062 - 14721 atoosa.meseck@helmholtz-berlin.de



Status of French universities





Université Grenoble Alpes

Jean-Marie De Conto



The 6 Presidents of: « Grenoble INP, Institut d'Etudes Politiques, Université Joseph Fourier, Université Pierre-Mendès-France, Université Stendhal, Université de Savoie » celebrated the opening of a new mandate on July 12th, 2012 in order to set-up the future "Grenoble-Alpes" University.



From left to rigth:

Denis Varaschin : président de l'Université de Savoie

Brigitte Plateau : administrateur général de Grenoble INP

Olivier Audéoud : recteur de l'Académie de Grenoble, Chancelier des universités

Lise Dumasy : présidente de l'Université Stendhal

Farid Ouabdesselam : administrateur provisoire du PRES Université de Grenoble

Patrick Levy : président de l'Université Joseph Fourier

Jean-Charles Froment : directeur de l'Institut d'Études Politiques de Grenoble

Sébastien Bernard : président de l'Université Pierre-Mendès-France



UGA: Université Grenoble Alpes

- Université Joseph Fourier (Sciences, technologies, santé)
- Université Pierre-Mendès-France (Sciences sociales et humaines)
- Université Stendhal (Lettres, langues, langues, arts et communication)
- Université Savoie Mont Blanc (Sciences, technologies, santé ; Droit, économie, gestion ; Arts, lettres, langues ; Sciences humaines et sociales)
- Grenoble INP (Sciences de l'ingénieur)
- Sciences Po Grenoble (Sciences politiques)
- École nationale supérieure d'architecture de Grenoble (*Architecture et design*)

http://www.univ-grenoble-alpes.fr/en

Last news from April 2



- The presidents of the Joseph Fourier, Pierre Mendès France and Stendhal universities propose a fusion of the 3 universities on January 1st, 2016.
- Part of the Grenoble IDEX (Initiative D'EXcellence)
 - Fusion of the universities
 - Setup of the COMUE, "Communauté d'Universités et d'Etablissements" (see next slide)
 - Development of excellence: Sustainability (planet + society), Health, wellness, technology, innovation, numerical technology
- Planning
 - Proposal to the "Conseil National de l'Enseignement Supérieur et de la Recherche" (June/July 2016)
 - Decree in September
 - Election of the different committees before December 31.

COMUE



- The « Communauté d'Universités et Établissements » (COMUE) « UNIVERSITÉ GRENOBLE ALPES » is the structure federating the universities, engineering schools and research structures within the Grenoble academy, from Valence to Annecy.
- Members: UJF, UPMF, Stendhal, Grenoble INP, CNRS Alpes, INRIA
- Associated members: Université Savoie Mont-Blanc,
 Sciences Po Grenoble, ENSAG (architecture), CEA Grenoble



Université Paris Saclay

Nicolas Delerue

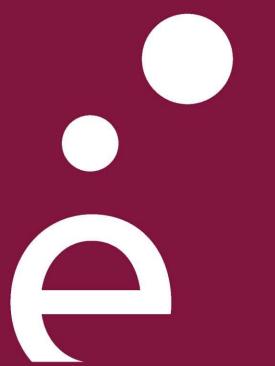


tor School

A HIGH LEVEL RESEARCH UNIVERSITY



April 2015



The six corner stones of Université Paris-Saclay



A single Doctoral Diploma of Université Paris-Saclay

A single chart for Master Diploma of Université Paris-Saclay

Single identifier for the scientific publications of Université Paris-Saclay

A Welcome Office for international applicants

An entry point for companies

And the unique opportunity of a new Campus



A new university, a fertile model







































A common strategy for Education, Research and Innovation.

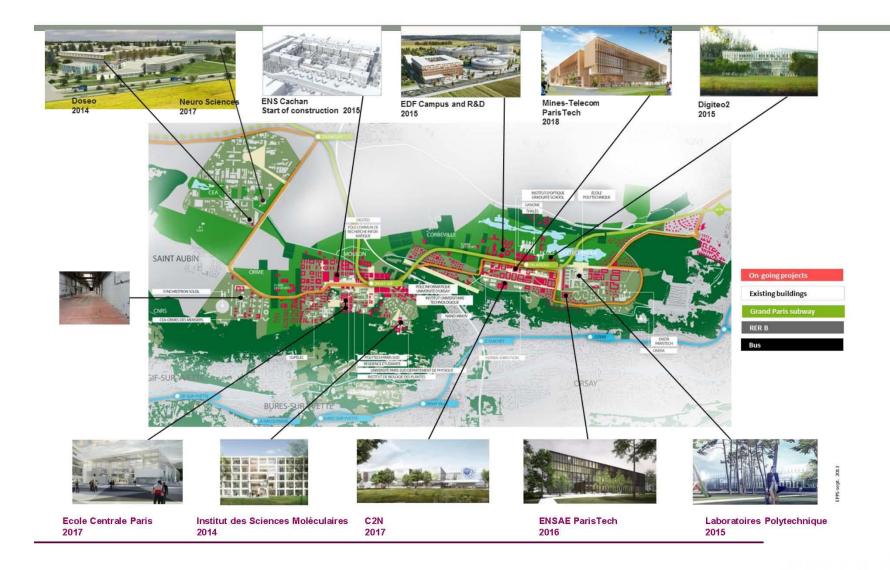
Each member keeps its identity, specific diploma and human resources.

18 founding members



Some new Academic Buildings at Campus







Research: about 15% of the public research effort in France

·•

The stakes

- Maintain excellence in the leading fields (300 laboratories)
- Enhanced links between disciplines, trans-disciplinary programs
- Develop links with industry



A four point strategy

- Develop a scientific strategy at the campus scale (Departments)
- Pooling laboratories, platforms, infrastructures through colocation (Institutes)
- Strong initiative to strengthen research in emerging domains, and trans-disciplinarity
- Develop international cooperation



Higher Education: Top level Higher Education in France

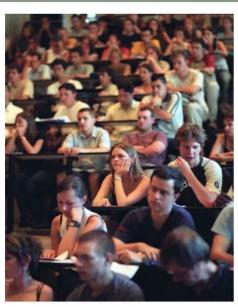


The stakes

- Develop young talents: students and professors
- Increase partnerships with industry
- Attract young students to science

A four point strategy

- 1. Common education cursus in 8 schools
- 49 masters and 20 doctoral domains for increased international visibility
- Master and doctoral diploma delivered by Université Paris-Saclay.
- 2. Increased international recognition:
- Cursus in French and English, international partnerships, welcome office international students,
- 3. Strong online course initiative
- 4. Enlarge, enrich links with industry



for



Innovation/Impact



Enhance collaborative projects between students, companies and laboratories:

- Initiate a profound change of mindset towards entrepreneurship in the student population through specific programs
- Implement new cooperative schemes



Attract innovating companies (R&D, students, access to laboratories...)

Attract Investors and Entrepreneurs.



Campus life: key factor of sucess



The stakes

- Build most exciting student city
- Bring almost 70 000 students together in a shared dynamic
- encourage studying at one of the top universities in the world

A four point strategy

- Improve campus mobility: cycle paths, dedicated transport corridors for bus, new metro line ...
- very high speed digital connectivity
- Different types of collective housing and individual homes
- new common equipment: gymnasium and sport-fields, learning center, restaurant, cultural area...







In a nutshell...

...www.universite-paris-saclay.fr



basis: convergence of intelligence, dynamic processing, international horizon.

Research: develop excellence and meet the today and tomorrow scientific challenges, promote transdisciplinarity.

10000 researchers and Professors

Education: a wide range of high level education from bachelor to PhD, success for all students 70000 students

Innovation: value chain from early academic detection to industrial transfert, a significant investment to foster collaboration between academia and industry (300M€)

Campus life: sharing common dynamics in an exciting campus well integrated in their surroundings



Master "Grands Instruments", Large Scale Facilities





























GI & ORGANISATION



Inaugural week: installation visits

Common teaching: 33 ECTS

European weeks: 6 ECTS

Training period: 21 ECTS

Training defence

Cadarache **ITER**

Bordeaux LMJ

Genève **CERN**

GI &UE: 39 ECTS DE COURS/TD/TP



Practical training on large scale facilities
On Paris Saclay campus

Electromagnetism
And relativity
2 ECTS

Numerical methods
3 ECTS

Projects and management 3 ECTS

Accelerators 4 ECTS High power lasers
4 ECTS

Plasma physics and tokamaks
4 ECTS

Transverse technologies 4 ECTS

Detection ans measure 3 ECTS

CERN/JUAS 6 ECTS LMJ/Bordeaux 6 ECTS ITER/Cadarache 6 ECTS

GI &TP



Lasers

Accélérators

Tokamaks

Paris-Saclay

Palaiseau/IOGS Orsay/LAL+IPN+CSNSM Palaiseau/LPP

Palaiseau/LULI Saclay/DMN

Palaiseau/LOA Saclay/IRFU

Saclay/Laserix, Apollon

Orsay/Protonthérapie

Gif/SOLEIL

France-Sud

Bordeaux/CELIA Genève/CERN Cadarache/IRFM



Status of Italian universities





Status of Spanish universities









Review of JUAS sponsors

Main sponsors of the European Scientific Institute (ESI)





The "Conseil Général de Haute Savoie" provides financial support to ESI which organizes JUAS



"Archamps Technopole" provides ESI with facilities for the organization of the school including amphitheaters and computing room









France











Germany











UK





Spain





Italy







Supporting and contributing to JUAS



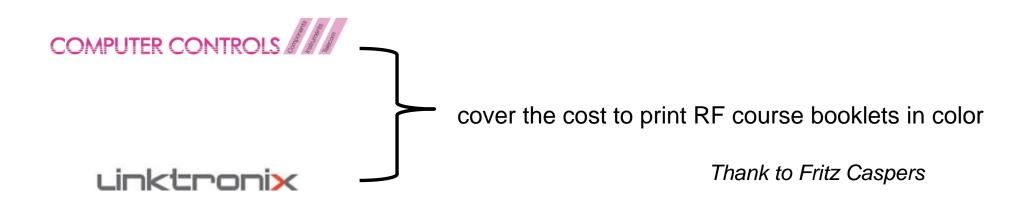
	Joint Universities Accelerator S
	19 Institutes and Laboratories (alphabetic order)
ALBA - CELLS	Light source (Barcelona – Spain)
CEA	Commissariat à l'Energie Atomique (Saclay - France)
CERN	Conseil Européen pour la Recherche Nucléaire (Genève - Suisse)
CNRS / IN2P3	Centre National de la Recherche Scientifique (Paris - France)
CPAN	Centro Nacional de Física de Partículas, Astropartículas y Nuclear (Spain)
DESY	Deutsches Elektronen-Synchrotron (Hambourg - Germany)
DIAMOND	Light source (Didcot Oxfordshire – England)
ESRF	European Synchrotron Radiation Facility (Grenoble - France)
ESS	European Spallation Source (Lund - Sweden)
Eucard-2	European Coordinated Accelerator Research and Development
GANIL	Grand Accélérateur National d'Ions Lourds (Caen - France)
GSI	GSI Helmholtzzentrum für Schwerionenforschung (Darmstadt - Germany)
HIC for FAIR	Helmholtz International Center [for Facility for Antiproton and Ion Research] (Darmstadt - Germany)
HZB	Helmholtz Zentrum Berlin (Berlin – Germany)
INFN	Istituto Nazionale per la Fisica Nucleare (Roma - Italy)
KIT	Karlsruhe Institute of Technology (Karlsruhe – Germany)
oPAC	Optimization of Particle Accelerator (Liverpool –United Kingdom)
PSI	Paul Scherrer Institute (Villigen - Switzerland)
SOLEIL	Light source (Saint Aubin - France)

JUAS sponsoring from private companies





- => provides financial support for JUAS student
- => opens his company for a full day for practical works





Computing support for JUAS







JUAS Web sites

Present: www.cern.ch/juas

New: <u>www.esi-archamps.eu</u>



ESI logistics and communication



ESI – General Organization



Evaluation received from students JUAS General Organization – (1)

How did you hear about ESI?

JUAS Web site

Other Web site (sponsors, laboratories...)

Former students

Work

University

20%
3%
25%
25%
27%

How was your first contacts with the school?

Did you find easily a way to contact the school?

Did you receive a reactive answer?

Did the first contacts with the school give you a professional image?

YES =	97%	NO =	3%
YES =	94%	NO =	6%
YES =	97%	NO =	3%



Evaluation received from students JUAS General Organization – (2)

Convivial venues (0 = bad \rightarrow 5 = excellent)

Student room

ESI office

Coffee Break

4,7

4,5

4,4

Lectures venues $(0 = bad \rightarrow 5 = excellent)$

Amphitheater

Computer room

Workshop room

4,5

4,1

3,4

Materials (0 = bad \rightarrow 5 = excellent)

Internet access at school

Web site

Lecture notes

Indico

3,4

4,3

4,4

4,3



ESI – Poster & Bookmark



INTENSIVE PROGRAM

MODULAR COURSES

ACCREDITED BY



TWO COURSES ON PARTICLE ACCELERATORS

11 January to 18 March 2016

Course 1

SCIENCES & PHYSICS 11 January to 12 February

Course 2

TECHNOLOGY & APPLICATIONS 15 February to 18 March

PARTNER UNIVERSITIES:











TECHNISCHE UNIVERSITÄT DARMSTADT





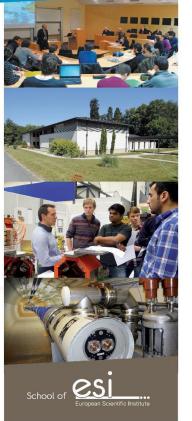












www.esi-archamps.eu

With the support of:

























Original Poster can be send by post mail.







----- 11 January to 18 March 2016

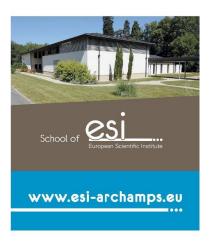
Course 1

SCIENCES & PHYSICS

11 January to 12 February

Course 2

TECHNOLOGIES
AND APPLICATIONS
15 February to 18 March







ESI / JUAS - Mars 2015 Crédits photo : ESI - JUAS - Cern Graphisme : virginie@indelebile-creation.com

Original Bookmarks can be send by post mail.



Welcome to the new ESI website



Report about JUAS lecturers meeting at CERN

Agenda for JUAS lecturers meeting

Monday 8th September 2014



Morning:

Building 160-1-009

9h:30

- 1 Welcome
- 2 Short introduction on ESI
- 3 Round table of JUAS lecturers
- 4 Brief summary of the 20th Anniversary at Grenoble
- 5 Brief summary of JUAS 2014 Advisory Board
- 6 Status of JUAS students 2015
- 7 Round table about pedagogical aspects
- 8 Balance between lectures and tutorials
- 9 Presentation of the Timetable 2015
- 10 Comments from lecturers

Coffee break

- 11 CERN and ESRF visits (course 1)
- 12 CERN, PSI and HUG visits (course 2)
- 13 Examinations
- 14 JUAS certificates
- 15 Practical days at CERN and at Bergoz
- 16 Two days of practical works at CERN
- 17 Overlap on lectures
- 18 General comments on the evaluations received from students
- 19 Contribution to a second JUAS school in June-July

Afternoon:

CERN Council Chamber

Building 503-1-001

14h:

- 20 Information about JUAS and partner Universities
- 21 Information about ECTS (European Credit Transfer System)
- 22 Follow-up IPAC'14
- 23 Computing support for JUAS
- 24 JUAS Web site
- 25 Indico to upload the lectures
- 26 Job opportunities publication
- 27 New seminars
- 28 Improvements for 2015
- 29 A.O.B.

Coffee break

Invitation of former students present at CERN or around for discussion and feed-back.

JUAS LECTURERS MEETING MINUTES



CERN - Monday 8th September 2014

Participants:

Alemany Reyes
Benedetto Elena
Caspers Fritz
Chautard Frederic
Darve Christine
Ferracin Paolo
Forck Peter

Gauthier Marie Hoffmann Hans

Holland Bob Kersevan Roberto

Kleeven Wiel

Lallement Jean-Baptiste

Latina Andrea Lebrun Philippe Metral Elias

Meyroneinc Samuel

Pellegrini Dario Queralt Xavier

Resta-Lopez Javier

Rinolfi Louis

Russenschuck Stephan

Thuillier Thomas

Wilson Martin (Skype)

Zickler Thomas

Apologies from:

Ballarino Amalia Bartolini Riccardo Bauche Jérémie Bousson Sebastien

Bryant Phil

Chiggiato Paolo

De Conto Jean-Marie

Degiovanni Alberto

Dimov Veliko

Federmann Silke

Henke Heino

Losito Roberto

Migliorati Mauro

Miralbell Raymond

Mondelaers Wim

PapaphilippouYannis

Perron Thomas

Sterbini Guido

Tommasini Davide

Zimoch Elke

Introduction

After a brief welcome by Louis, there was a round table of JUAS professors to present themselves. The slides used by Louis, as support for the discussions and exchanges, are attached.

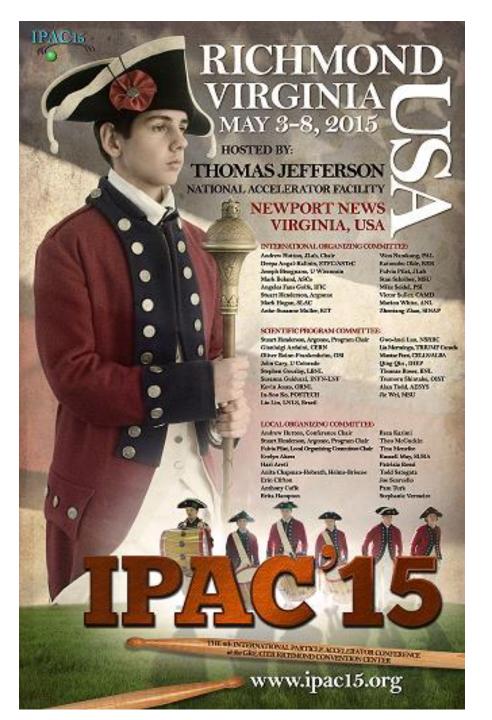
The present Minutes are only focused on points where decisions were (or need to be) taken.

See attached document

Meeting very fruitful. JUAS lecturers ask to repeat it.



JUAS in the community of particle accelerators





Accelerator Conference award for JUAS



Each year one JUAS student receives a grant to attend the IPAC conference.

There are requirements to attend IPAC:

Follow JUAS courses

Obtain the best marks at the examination

Continue in the field of particle accelerator

Present work at the conference

Serve as for other supported students (scientific secretary, JUAS stand, Poster, ...)







Philipp DIJKSTAL (German) from TU-Darmstadt (Germany), as JUAS Master student got the first rank at examination of course 1 and course 2. He will receive a grant for IPAC 2015.



Giovanna CAMPOGIANI (Italian) from University La Sapienza - Roma (Italy), as JUAS PhD student got the second rank at examination of course 1. She will receive a grant for IPAC 2015.



JUAS laureates

TU-Darmstadt,

INP-Grenoble,

TU-Darmstadt,

TU-Darmstadt,

TU-Darmstadt,

Valencia – Spain,

LPSC Grenoble,

TU-Darmstadt,

Valencia university

Manchester univ.

ALBA-Barcelona

TU-Darmstadt

TU-Darmstadt

La Sapienza-Roma

EPAC 2008, Genoa

EPAC 2008, Genoa

PAC 2009, Vancouver

IPAC 2010, Kyoto, 23-28 May

IPAC 2011, San Sebastian, 4-9 September

IPAC 2011, San Sebastian, 4-9 September

IPAC 2012, New Orleans, 20-25 May

IPAC 2012, New Orleans, 20-25 May

IPAC 2013, Shanghai, 12-17 May

IPAC 2013, Shanghai, 12-17 May

IPAC 2014, Dresden, 15-20 June

IPAC 2014, Dresden, 15-20 June

IPAC 2015, Richmond, 3 – 8 May

IPAC 2015, Richmond, 3 – 8 May

UPC Madrid, PAC 2007, US Javier Barranco

Matthias Euler

Timo Bloch

Philipp John

Yan Dutheil

Javier Jongalez

Robert Stegmann

Jorge Giner Navarro

Alessio Mereghetti

Michele Carla

Nikolai Schmitt

Philipp Dijkstal

Giovanna Campogiani

Alexandre Pichard

Christopher Bauer







Société Française de Physique



33, rue Croulebarbe-75013 Paris

Division « Physique des Accélérateurs & Techniques Associées »

Journées Accélérateurs de la SFP Roscoff, du 4 au 7 octobre 2015

CIRCULAIRE Nº 1

Paris, 16 février 2015



Jean-Luc Revol, ESRF, President



https://indico.lal.in2p3.fr/event/2497/

Nicolas Delerue, LAL, Organizer



TIARA: European project



Test Infrastructures and Accelerator Research Area





Test Infrastructure and Accelerator Research Area

Status Report

Recommendations for promoting accelerator science and technology in Europe

Burrows, P. (JAI, University of Oxford) et al

07 November 2013

The research leading to these results has received funding from the European Commission under the FP7-INFRASTRUCTURES-2010-1/INFRA-2010-2.2.11 project TIARA (CNI-PP).

Grant agreement no 261905.

This work is part of TIARA Work Package 5: Education and Training.

The electronic version of this TIARA Publication is available via the *TIARA web site* at http://www.eu-tiara.eu/database or on the *CERN Document Server* at the following URL: http://cds.cern.ch/search?p=TIARA-REP-WP5-2013-016

Date: 1/04/2015

Dear colleagues,

After discussion with Roy Aleksan, I am writing to ask if you would be willing for your institute to participate in education and training activities in accelerator science and technology, as part of the next-stage TIARA Consortium....

.... a strong recommendation was to construct an 'e-learning' course,....

Phil Burrows (TIARA preparatory phase WP5 leader)



EuCARD²

- Frankfurt meeting
- Presentation at JUAS





Universities meet Laboratories

from September 29, 2014 to October 1, 2014 Frankfurt am Main



Summary of the 1st EuCAN Workshop "Universities meet Laboratories (ULA2014)"



G. Franchetti (GSI) and F. Zimmermann (CERN)

Based on contributions from

R. Aleksan (CEA), G. Anelli (CERN), R. Appleby (U. Manchester/CI), G. Arduini (CERN), R. Assmann (DESY), K. Aulenbacher (JGU Mainz), P. Bambade (CNRS/IN2P3/LAL), W. Barletta (USPAS & MIT), O. Boine-Frankenheim (TU Darmstadt/GSI), P. Burrows (U. Oxford/JAI), A. Faus-Golfe (IFIC), S. Guiducci (INFN-LNF), W. Herr (CERN), S. Kamada, (KEK), A. Letchford (RAL), M. Migliorati (Sapienza Rome), Márius Pavlovič (SUT Bratislava), H. Podlech (GU Frankfurt) L. Rinolfi (JUAS), L. Rivkin (EPFL & PSI), S. Russenschuck (CERN), E. Schleiff (GU Frankfurt), M. Seidel (PSI), H. Stoecker (GSI), J. Stroth (GU Frankfurt), A. Valloni (CERN), V. Ziemann (U. Uppsala)

Global Summary

"Universities meet Laboratories" was a pioneering attempt to bring together representatives of the academic world and of laboratories, in order to confront the interface of joint research, communication and collaborations.

The workshop revealed a unanimous consensus among the participants from universities across Europe that, in general, the field of accelerator physics and technology appears to be often disadvantaged by an inadequate standing in the academic environment.







Building the future of particle accelerators: collaborative R&D in the European context

M. Vretenar, CERN EuCARD-2 Coordinator

An introductory presentation for the JUAS 2015 cycle European Scientific Institute, Archamps, 16.02.2015





EuCARD-2: the collaborative road to Accelerator R&D



EuCARD-2 = European Coordinated Accelerator Research and Development, an *Integrating Activity* co-funded by the European Commission under the *Capacity – Research infrastructure* Program

> 300 participants from 40 Institutes (Laboratories, Universities and Industries) of 12 European Countries (+ CERN and Russia)

48 months duration (01.05.2013 - 30.04.2017)

13 Workpackages covering different fields of advanced Accelerator R&D

23.5 M€ total cost, 8 M€ EC contribution

One website: http://eucard2.web.cern.ch/

One goal: develop the technologies for tomorrow accelerators

• Promote public outreach of accelerator science, and education and training of the future generation of accelerator scientists.



Nordic Particle Accelerator School

Christine Darve / ESS Lund















Nordic Particle Accelerator School 2015

Lund University, Sweden August 17-23, 2015

Registration online by May 30, 2015: http://www.eit.lth.se/index.php?cjuid=92281 Contact: christine.darve@esss.se

Topics:

A one week introductory course on the physics of particle accelerators, aimed at Bachelor and Master students in Physics and Electrical Engineering. Students will receive an introduction to accelerator based science and learn how modern particle accelerators work.

Lund, Sweden Lund University: Anders Karlsson, Sverker Werin MAX IV Laboratory: Pedro Fernandes Tavares, Simon Leemann

European Spallation Source: Christine Darve Uppsala University: Maja Olvegard, Roger Ruber

Aarhus University: Søren Pape Møller University of Oslo: Erik Adli

University of Jyväskylä: Pauli Heikkinen

CERN: Rudiger Schmidt

Lund is home to Scandinavia's largest particle accelerator facilities, the European Spallation Source and the MAX IV Laboratory. The school includes visits to both facilities.





The NPAS2015 will be hosted in Lund on August 2015, with partners institutes:

MAX IV, ESS, Uppsala, Aarhus, Oslo and Jyväskylä Universities.

- 20 students
- 6 days
- 3 ECTS equivalents

Registration and program available at: http://www.eit.lth.se/index.php?ciuid=9 22&L=1

The NPAS2015 will be the proof of a successful cooperation between Nordic universities and will act as a feeder school for JUAS.

A follow-up project aims to establish every 2-years, a 2-week school of accelerator (NPAS) expanding the first school edition from 20 to 40 students and using additional innovative materials and network.



Application to Erasmus+, Strategic Partnership

Proposed 36-month Nordic Particle Accelerator Program structured in 3 work-packages:

WP01: Preparation and implementation of 2 Nordic Particle Accelerator Schools

WP02: Preparation and implementation of MOOCs and e-learning materials

WP03: Seminar, webinars and other networking activities

The aim of this proposed Strategic Program is to increase the European capacity of accelerator scientist training by establishing a Nordic centre for education and training in accelerator science in Lund, Sweden to benefit the ESS and the MaxIV laboratory.

NPAS will act as a feeder school for JUAS by preparing students at Bachelor/early Master for JUAS' intensive university-accredited programs.

Further partnership with the JUAS could foresee future school in Archamp.

As a possible follow-up of the earlier European program TIARA (Test Infrastructure and Accelerator Research Area), TIARA-REP-WP5-2013-005, the NPAP will give support to students who focus on accelerator science so that they become the European accelerator experts, who exploit, develop and improve current and future particle accelerators.



A new facility on Archamps Technopole

B. Holland, A. Seryi



The « FieldTech » Project

A project has been envisioned to strengthen ESI's position in the strategic and geo-sensitive global business of radiation sciences education.

- Highest quality teaching
- Best standards facility

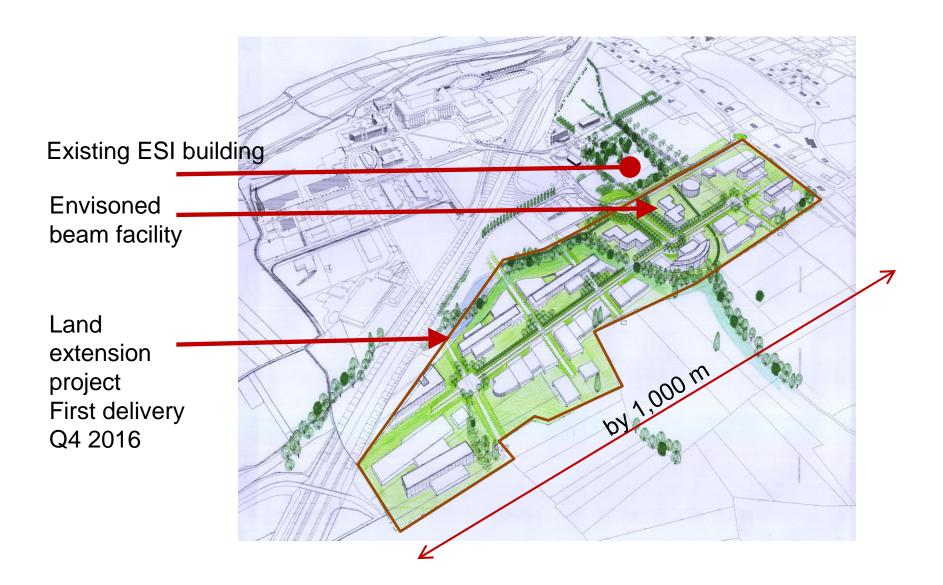


A vision built on key ESI features:

- 1. The "golden line" facilities ESRF / CERN / FEL-PSI
- 2. ESI/JUAS worldwide recognition in radiation science teaching.
- 3. The JUAS network of expertise
- 4. New land extension (very close to ESI building)
- 5. A dedicated 10 MW power line
- Proximity of CIXP* (All possible services available)
- 7. Fibre optic network regular 100MBit/sec.
- 8. Quiet location subnanometer/4Hz vibration qualified (ongoing)

^{*} CIXP = CERN Internet eXchange Point







BEAM TECHNOLOGIES BEAM APPLICATIONS

ACCELERATOR ENERGY

BEAM WAVELENGTH

TUNABILITY

SCALABILITY

CAPITAL COST

OPERATING COST

LIFE SCIENCES

MATERIALS

LITHOGRAPHY

EDUCATION

RESEARCH

SERVICES

REQUEST the JUAS EXPERTISE NETWORK for a PRELIMINARY POSITION PAPER









Options for Compact Light Sources

Andrei A. Seryi John Adams Institute

Video meeting with:

Archamps Technopole

March 13, 2015





Imperial College London





Background

Preliminary discussions

 indicated the interest of Archamps Technopole colleagues in desire to build a compact Light Source (FEL or other design) at Archamps

In this presentation

- ... we will outline several options of compact light sources:
 - Compact Compton Source
 - Compact SCRF Compton Source
 - Laser Plasma Light source

We will mention compact FEL only briefly – see extra slides