



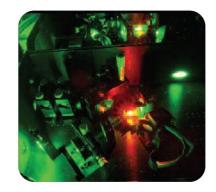






LAser Applications at Accelerators a european NETwork

- More than 30,000 accelerators in the world;
- Lasers are becoming increasingly important
 - Beam generation;
 - Acceleration;
 - Characterization, etc.
- Few experts trained in <u>both</u> fields;
- Large scale facilities: International collaboration is key!



Multi-disciplinary field!







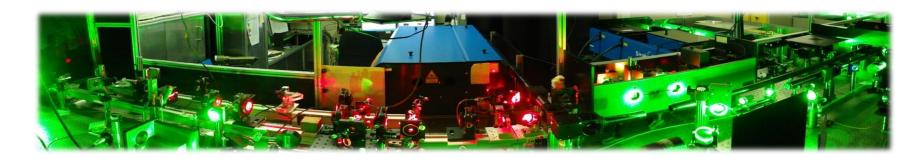




Research Program

Main areas:

- Particle Sources (WP2);
- Particle Beam Acceleration Schemes (WP3);
- Beam Diagnostics (WP4);
- System Integration (WP5);
- Laser and Photon Detector Technology (WP6).















Overview of Consortium

Beneficiary partners





















Associated partners







































Adjunct Partners

Part of the long term strategy – LA³NET is growing

































Steering Committee

Research Centers:

Nathalie Lecesne
 GANIL

Enrique Conejero Jarque CLPU

Universities

Carsten Welsch Liverpool

Allan Gillespie
 Dundee

Industry

Arnd Baurichter
 Danfysik

+ Project Manager/Assistant and Trainee Representative (Jurjen Couperus)





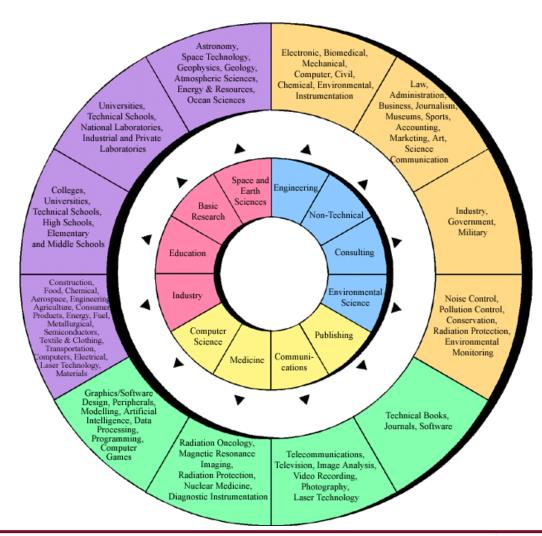








- MSc standard;
- PhD part of training in most countries;
- Broad skills;
- Blue sky research vs. applied physics.





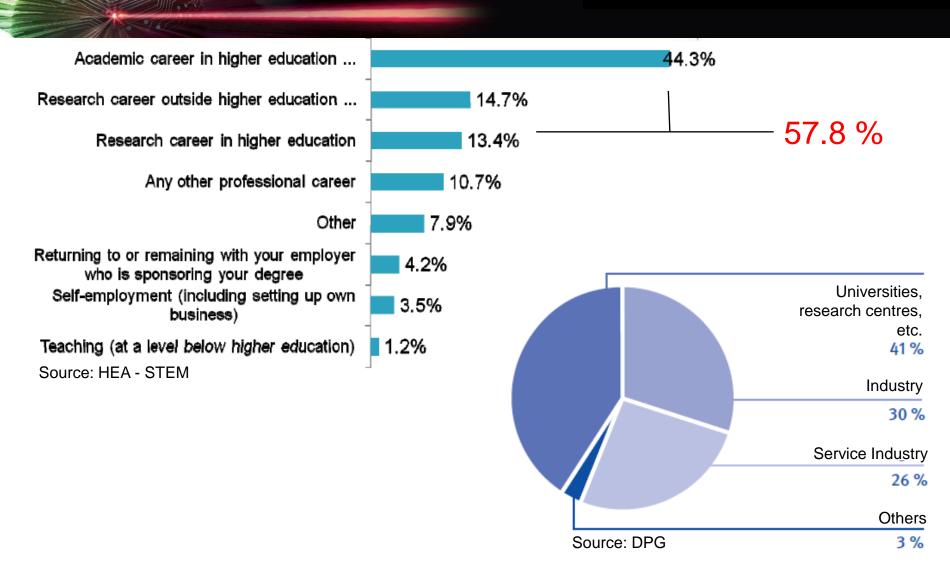


L/*NET*





















,Classic' PhD training

- Focus on academic career path;
- Scientific papers as key quality indicator;
- Training through (often blue sky) research;
- Very little training in complementary skills –
 researchers often need to be (re)trained on the job;
- Students or researchers ?

Evolution: Marie Curie networks













Training – at each Network Node

- In accordance with national PhD regulations
- Provide trainees with broad skills base
- Enable secondments between nodes
- Promote knowledge exchange and collaboration across the network
- 100% focus on research project
- Initial plan fixed in CDPs, additional opportunities already taken (e.g. JUAS, IPAC, etc.)













Network-wide Training

- International Schools in Laser Applications and Complementary Skills
- Topical Workshops on focused research areas
- Conference and Symposium to summarize and disseminate research results internationally
- Provision of seminars, contributions to conferences, etc.
- Secondments between partners













- First major event;
- Held at GANIL,Caen/France;
- IndicolD: 177701







- 80 participants
- LA³NET prize.













Events to date

- Particle Sources, CERN, February 2013
- Complementary Skills School, March 2013, Liverpool, UK
- Mid-term review meeting, Copenhagen, Denkmark
- Laser Technology and Optics Design, Aachen
 - 4-6 November 2013 (now!)













Time	Monday	Tuesday	Wednesday	Thursday	Friday
8.30 - 9.30 9.30 - 10.30	Introduction Paired Introductions: Participants generate flip chart poster of interview partner then present them to whole group.	Career Prospects in Industry & Academia Independent Teamwork Dreamer, Realist, Critic	Presentation skills Introduction Participants will give 5 minute presentation in small groups about their PhD projects All presentations will be video recorded	Advanced Project Management Independent Team Work Teams work on the project according to their plan Chairs meeting Present summary of report	The Presentation (Followed by Questions)
10.30 - Break 11.00 – 12.30	Presentation skills Basics of research presentations – an introduction to the Do's and Don'ts of conference presentation	Teams to come up with a response to the challenge Teams choose their project topic and plan the teamworking process. Target Setting Milestones & deliverables session – assessment of targets for the project		structure Teams review project following feedback International collaboration	Peer Review Teams present assessment and feedback Forward Planning
12.30 – 13.30			Lunch		
13.30 – 15.00 15.00 – Break 15.30 – 16.30 16.30 – 17.30	Introduction to Project Management Theoretical Background Action: Plan PhD project Update description Stakeholder analysis Milestones Deliverables	Focus on writing research papers. The writing process and structure Thinking about the audiance Target journals Tips Writing for the general public.	Visit to Cockcroft Institute Introduction Tour of facilities	Network diagrams (Understanding dependencies) Independent Team Work Teams continue collaborating on project. Produce report Create presentation Assessing Risks	













PhD project-specific part

- Presentation skills
- Scientific writing
- Project management



- Team working
- Proposal writing
- Peer review
- Working under (time) pressure





"I hadn't really thought of myself as a project manager until today!"

















Future Events

- Topical Workshops
 - Novel Acceleration Schemes, Dresden, 28-30 April 2014
 - Beam Diagnostics (tbc)
 - More in the planning...
- International Schools
 - Advanced School on Laser Applications, Salamanca, Sept.
 2014
 - Advanced Researcher Skills School, Liverpool, June 2015
- Conference and Symposium





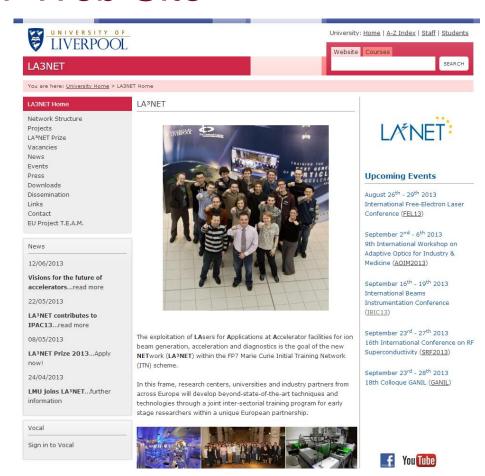








LA³NET Web Site



(http://www.)la3net.eu







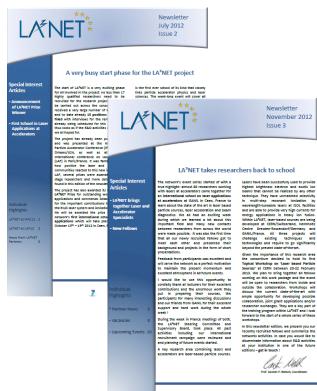






Quarterly Newsletter

- Part of the dissemination strategy
- Contribution from all network partners
- Announcement and review of activities
- > 500 recipients, growing
 - All available via home page.





Follow us on Facebook







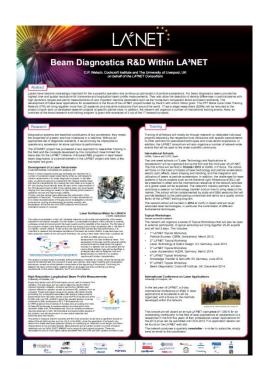






Conference contributions

- Conferences 2012
 - IPAC stand
 - BIW, LAP, etc.
- Conferences 2013
 - FEL, IPAC, IBIC, HEA L&T, etc.
 - IBIC stand
- Conferences 2014
 - IPAC stand, ESOF
 - IBIC, IPAC
- Outreach Symposium 26 June 2015
- Own conference in 2015 Mallorca















Publications

- IPAC 13: fellows publications
- Pan European Networks, Science and Technology 6 (2013)
- STFC's UK news from CERN 2013: Issue 14 on LA³NET
- Higher Education Academy's Annual Learning and Teaching Conference in Birmingham, UK
- LA³NET Brochure and Booklet

















Outreach

- Conference Symposium (26 June 2015)
- Fellows:
 - Webcasts about projects
 - Engagement with local schools
 - Specific opportunities
- Annual prize













LA³NET Prize

- Annual prize of 1 k€ for E(S)R;
 - Within first 5 years of career;
 - Original contribution;
 - Letters of recommendation.
- Not limited to LA³NET partners.
- Application deadline: 30 June each year.













1st prize awarded at GANIL



- NameSebastian Rothe
- - Research
 Installation of the novel
 all solid state tuneable
 laser system at ISOLDE
 and laser spectroscopic
 investigation of astatine













Administrative Support



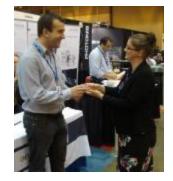
- Promotes LA³NET research, training and administration internationally
- Contributions to IPAC, HEASTEM, IBIC, etc.
- Best practice in Europe (EC)

























International Partnership

















































































Summary

- LA³NET R&D program now running at full speed;
- Unique combination of research areas;
- Many events will be organized join in !
- Consortium is planning future initiatives at the interface between accelerator and laser communities – participate!

Thanks for your attention!



