



**Minutes of the
2nd International EULASNET II Experts Meeting and Workshop
Brussels (Belgium), 13-14 November 2007**

Participants:

Attending the meeting:

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Final Agenda

Tuesday 13 November 2007: Eureka Secretariat
Rue Neerveld 107
B-1200, Belgium

- ..9:00 – 9:30.** Registration, opening and presentation of participants
9:30 – 11:00. Technical Workshop (See separate programme)
11:00 – 11:30. Coffee break
11:30 – 13:00. Technical Workshop (cont.) (See separate programme)
13:00 – 14:00. Lunch
14:00 – 15:30. Technical Workshop (end) (See separate programme)
15:30 – 16:00. Coffee break
16:00 – 17:00. Technical Summary of EULASNET II members activities during 2006-2007
- National EULASNET Networks activities
 - Running projects presentations. Success stories
 - Other (Inter-Umbrella meeting + EBS + ...)
- 17:00.** End of day activities
19:30. Joint dinner of Meeting participants

Wednesday 14 November 2007: Belgian Science Policy
Rue de la Science 8 Wetenschapsstraat,
B-1000 Brussels; BELGIUM

- 9:00 – 9:30.** Welcome by Belgian EUREKA authorities
9:30 – 11:00. Presentation of possible frames for cooperation between EULASNET II and other EU Programs
- General background (Other Umbrellas, ETPs, COST)
 - Presentation of MNT-ERANET (Dr. Roland Brandenburg) (Finally not presented)
 - Presentation of EUROSTARS (Dr. Svatopluk Halada)
- 11:00 – 11:30.** Coffee break
11:30 – 13:00. Discussion on new proposals and strategic lines within EULASNET II. Action Plan update
- Definition/Update of strategic lines for the fostering of EUREKA EULASNET II Projects
 - Strategies of cooperation with other networks in the field of Laser Technology and Applications
- 13:00 – 14:00** Lunch
14:00 – 16:00. Update of EULASNET II Action Plan (Cont.)
- Strategies of cooperation with other networks in the field of Laser Technology and Applications.
 - Update of draft calendar of EULASNET II activities. Commitment of responsible(s) per activity.
 - Other proposals and any other business.
- 16:00** End of the meeting





Minutes

Welcome, Opening and General Presentation

Dr. Aleš Mihelič, EUREKA Chairman (Slovenian Chairmanship 2007/2008), opened the meeting by welcoming the participants to the EUREKA Secretariat and expressing his wishes for a fruitful work during the meeting and an intense activity of the EULASNET II Umbrella for the promotion of new Projects. Dr. Mihelič stressed the need for a wide diffusion of EUREKA activities and the desirable role of EUREKA Projects as entry points to wider European cooperative activities according to the renewed EUREKA Strategy. Specially, he stressed the great opportunity provided by the recent agreement between EUREKA and the European Commission (EC) to launch the EUROSTARS Program.

After this introductory talk, a general presentation of the participants took place in which the main activities and prospects of their respective institutions were briefly described. Prof. Ocaña (EULASNET II Coordinator) especially welcomes Dr. Kristensen (DK) newly incorporated to the EULASNET II WG following the incorporation of Denmark to EULASNET II.

EULASNET II Technical Workshop

The scheduled EULASNET II technical workshop took place according to the Final Agenda attached at the end. The high scientific and technical level of the presentations provided by the participants must be explicitly remarked and acknowledged. The EULASNET II Chair appreciates very much and wishes to acknowledge the participation of invited experts presenting a contribution to the Workshop, namely Drs. Van Haver, Igartua and Kubecek.

Under the point Technical Summary of EULASNET II members activities during 2006-2007:

1. Prof. Ocaña (ES) informed about the recent launching of the HISPLASNET network as a EULASNET cooperation network for Spanish institutions.
2. Dr. Patron (PL) informed about the constitution activities of the Mazovian Photonic Technology Cluster "OPTOKLASTER".
3. Dr. Kristensen (DK) introduced, as a new member of EULASNET II, the research activities on Laser applications developed at FORCE (his home Institute) and commented on the active involvement of Denmark in Laser applications development.
4. Prof. Možina (SI) informed about the development of the European Cooperative Project LASTED.NET, a Project trying to develop distance learning laboratory through real time and virtual experiments.
5. Prof. Ocaña (as EULASNET Chair) informed about the EUREKA Inter-umbrella meeting just celebrated on November 12th also at EUREKA Secretariat in Brussels and the important novelties implied by the new EUREKA Strategy under development and some new instruments, particularly the EUROSTARS Program. IN view of the importance of this new instrument, a separate presentation for this Program was scheduled for the next meeting day.

Welcome by Belgian EUREKA Authorities

Mr. Verbruggen (BE NPC) kindly welcomed EULASNET II participants at the Belgian Science Policy Office (BELSPO). All the delegates presented themselves and the Laser activities at their respective countries. Mr. Verbruggen attended personally the rest of the meeting and offered the facilities of BELSPO for the requested needs (including lunch break). The EULASNET II Chair deeply appreciates and acknowledges the assistance of the Belgian delegation to host the meeting (in particular Mr. Verbruggen and Dr. Motmans).

Presentation of possible frames for cooperation between EULASNET II and other EU Programs

The initially scheduled presentation by Dr. Brandenburg (AT, ERANET) about this Program couldn't finally be provided because of a critical delay preventing the arrival of the speaker in time for a subsequent meeting.

Following the request of the EULASNET II Chair, Dr. Halada (EU Secretariat) presented the new launched instrument EUROSTARS, born from the direct cooperation of EUREKA with the European Commission (EC). DR. Halada provided a clarifying talk that, it's sure; will constitute an important reference point for the generation of new high quality EUREKA Projects. The EULASNET II Chair appreciates very much and deeply acknowledges the availability of Mr. Halada for providing his interesting presentation.



Discussion on new proposals and strategic lines within EULASNET II. Action Plan Update

A number of proposals of actions to be taken for the diffusion of EULASNET II activities were considered. In particular, Prof. Fiedorowicz (PL) offered himself to promote EULASNET II for the generation of new Projects in collaboration with other European Technological Platforms, concretely Photonics21, and Mr. Verbruggen (BE NPC) offered to promote EULASNET II activities for possible cooperation with other Umbrellas, especially PRO-FACTORY and ENIWEP, as well as with other European Platforms, concretely Manufacture. In a similar way, Prof. Ocaña (Coordinator) informed about his intention to promote EULASNET II activities at the meeting of Photonics 21 Working Group on Laser Processing Applications convened for March 2008 to which he plans to attend.

On the other hand, some proposals were presented on the distribution of information about leading scientific and technical initiatives in Europe, especially the European funded Extreme Light Infrastructure (ELI), to which several members of the EULASNET II WG already belong. Information about this project can be found under: <http://www.extreme-light-infrastructure.eu/>.

Under the section of New Project Ideas, the following tentative proposals were put forward by different WG members. The idea is to think about them especially looking at their feasibility until the next WG meeting, where the appropriate submission to the EUREKA Secretariat as Project Ideas would be eventually recommended. The proposed ideas were those listed in the annexed table. In parentheses the member countries initially interested:

1. Development of EUV/X-Ray Microscope (in cooperation with COST) for biomedical applications (PL, DE)
2. Benchmarking and Standardization of Laser Pulse Properties for Microprocessing Applications (ES, LT, PL)
3. Development of Advanced Cladding and Direct Laser Deposition Techniques (DK, BE)
4. Development of Laser Shock Processing for Surface Mechanical Properties Improvement (ES, PL, CZ)
5. Development of Laser Semiconductor Characterization Techniques (LT, PL)
6. Development of High Brightness Laser Welding Techniques (DK, ES, BE)
7. Development of Laser Based Metrological and Characterization Standards (ES, PL, LT)
8. Laser Based Monitoring of Contaminant Gases (ES, PL)

Update of draft calendar of EULASNET II activities

Under this section, the following events were announced:

1. 3rd EUREKA NPC&HLG meeting under the coordination of the Slovenian Chairmanship to be held in Portorož (SI) on next 9-11 April 2008. At this meeting, the EULASNET II Coordinator (Prof. Ocaña) has to address the NPC delegates presenting a Monitoring Report on the Umbrella activities in order to be evaluated.
2. 2008 VITO (BE) Laser event, to be held on 21st-22nd May 2008
3. 2008 E-MRS Event, to be held in Strasbourg (FR) on 26th-30th June 2008
4. 2008 ELI Event in Rumania (still to be announced for autumn 2008)
5. 2008 Optical Polish-Czech-Slovak Conference to be held in Poland in September 2008
6. 2008 NORLAS event (still to be announced)

Next International EULASNET II Experts Meeting and Workshop

The next International EULASNET II Experts Meeting and Workshop is planned for next May-June 2008 in Vilnius (LT) following the kind offer by Prof. Dementjev. The exact dates and venue will be appropriately announced by the EULASNET II Coordinator.

End of the Working Group Meeting

After a lunch break offered by BELSPO, the 2nd EULASNET II Working Group Meeting and Workshop was closed by Mr. Verbruggen (BE NPC).





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Technical Workshop
(Programme)

- ..9:00 – 9:30. Registration, opening and presentation of participants**
- 9:30 – 11:00. Technical Workshop Part I**
1. Hybrid laser welding of steel grades (Hylas-project) (ir Wim Van Haver, Research Center of the Belgian Welding Institute, BE)
 2. The production of polymer composite coatings by laser cladding (results obtained in FP6 project Kristal) (Dr. F. Motmans, Dr. M. Rombouts, VITO, BE)
 3. Advanced Manufacturing Technologies: Laser Surface Texturing (Dr. A. Igartua, TEKNIKER, Eibar, ES)
- 11:00 – 11:30. Coffee break**
- 11:30 – 13:00. Technical Workshop Part II**
4. Laser plasma X-ray source for contact microscopy (Prof. H. Fiedorowicz, WAT, Warsaw, PL)
 5. Scientific and Technical Applications of Short Pulse Lasers (Prof. V. Kubecek, Czech Technical Univ., Prague, CZ)
 6. High Precision 2D/3D Direct Ablation and Laser Assisted Micromanufacturing (Prof. J.L. Ocaña, CLUPM, Madrid, ES)
- 13:00 – 14:00. Lunch**
- 14:00 – 15:30. Technical Workshop Part III**
7. Development of High Power Femtosecond Lasers. (Prof. C. Fenic, Laser Department, NILPRP Bucharest, RO)
 8. Laser Shock Processing as a method for surface mechanical properties enhancement of high in-process-reliability metallic alloys (Prof. J.L. Ocaña, CLUPM, Madrid, ES)
 9. Proposal/Technical presentation of new project ideas (open to members of other networks)
- 15:30 – 16:00. Coffee break**
- 16:00 – 17:00. Technical Summary of EULASNET II members activities during 2006-2007**