



THE OMNI-NET PROJECT NEWSLETTER

ISSUE no.3
May 2007

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WELCOME NOTE

Welcome to the third OMNI-NET newsletter!

In this new edition of the OMNI-NET newsletter we will inform you about current activities of the project. The project results section presents local workshops and seminars, which were organised by some of the clusters. Fields of interest were laser technologies, wireless sensor networks as well as biotechnologies.

One upcoming step of the project will be the organisation of three European conventions starting in September 2007.

Furthermore, work on methodology (WP 4) will be continued by completing deliverable 4.4 on best practices.

Finally, the “spot on...” section presents facts and figures about the project coordinator **Opticsvalley**, Paris-Region's leading network in the fields of Optics, Electronics and Software Engineering.

We wish you a fruitful and pleasant reading experience!

The OMNI-NET project partners

The project is co-financed by the European Commission in the context of the 6th framework programme - Entrepreneurial innovation - Networking the players.

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TRANSVERSALITY

PROJECT RESULTS

IMPLEMENTATION OF WORKPACKAGE 3

Starting with the last project meeting in Jena in December 2006, the OMNI-NET partners entered the workpackage 3 on joint projects and strategies. In order to achieve the key objective of identifying technologies on which the members can cooperate, the partners proceed in two steps:

- the organisation of 18 local seminars
- the preparation of three European conventions

The goal of the seminars is to identify opportunities of common trans-national and to gather company profiles in order to prepare the European conventions. During the last months a majority of the seminars has already been realised:

OPTENCE (GERMANY)

Seminar 1: Optence Industrial Members Day,
November 24th , 2006

The 'Optence Industrial Members Day' takes place two times a year and all Optence members are invited. The event in November was organized in Neu-Anspach near Frankfurt and attended by 23 members. As a key topic the OMNI-NET project and the new FP7 of the European Union was presented by Robert Gohla from Steinbeis.

Seminar 2: Optence Working Group 'Lighting Technologies', February 9th, 2007

The meeting of the working group 'Lighting Technologies' in Darmstadt had 23 attendees. Key topics were a technology update on LEDs as light sources, the LED4EUROPE congress in Brussels and the OMNI-NET project. Optence informed about the goals of OMNI-NET, especially work package 3 and the formation of a trans-technological European 'Meta Cluster'.

PROJECT RESULTS

Seminar 3: Project Matching Seminar, February 28th 2007

The overall goal of the meeting has been working out potential technology fields for common projects. All Optence members have been invited and 17 attended the event in Mainz. Technology fields of common interest were: optical metrology, optical sensors, new materials, surface technologies, novel optics laser technology and lighting technology.

OPTICSVALLEY (FRANCE)

Opticsvalley has organised the following three seminars.

April 3rd 2007: Wireless Sensor Networks

April 26th 2007: Laser Technologies

June 6th 2007: Wireless Sensor Networks

In all seminars, after a presentation of the context of OMNI-NET, the participants benefited from interventions on opportunities for SMEs and calls for proposals of the 7th framework program, on the EUREKA individual projects, as on other support tools ("Amorce 2 Europe", supports from the Paris Region and other support instruments for export).

The objective of the seminars was to prepare the Paris Region companies wishing to build European co-operative research projects, and to present them collaboration opportunities with the other OMNI-NET partners' members. The fields of laser and wireless sensor networks were previously identified by the OMNI-NET consortium as key themes of technological cooperation.

At the end of each seminar a catalogue with information on European companies and research centers wishing to cooperate at European level in the field of laser and wireless was handed out to the participants.



OPTICSVALLEY: SEMINAR 3rd APRIL



OPTICSVALLEY: SEMINAR 3rd APRIL

PROJECT RESULTS

PHOTONICS BW + STEINBEIS (GERMANY)

October 25th 2006: Biotechnologies

After information on research promotion and the technology platform "Photonics 21" Robert Gohla presented the 7th framework programme as well as the OMNI-NET project.

Furthermore, activities and upcoming projects of Photonics BW were discussed.

November 9th 2006: Laser technologies

Fields of interest in this seminar were laser materials processing and optical measurement techniques. Besides the introduction of the OMNI-NET project, terahertz technologies and planned activities were discussed.

Further seminars:

October 20th: Transmission of data, micro-optic systems, optical fibres

February 14th: Optical design and simulation

OPTONET (GERMANY)

November 23th and 24th 2006: Laser technologies

The fifth Laser Symposium took place at the Esplanade Hotel in Jena. The University of Applied Science, IfW Jena GmbH, Linde AG and OptoNet hosted the event.

Fields of interest were current trends and developments of the fiber laser. After a presentation of Prof. Dr. Tünnermann (IOF Jena), Dr. Klaus Schindler presented the aims and objectives of the OMNI-NET project. Altogether 15 companies presented their fiber laser exhibits and 150 participants took part.

Further Seminars:

May 15th 2007: Sensors

June 28th 2007: Optical Fibres



PHOTONICS



PHOTONICS

PROJECT RESULTS

FMNT (FINLAND)

2nd February 2007: Metallic and Inorganic Nanoparticles and their Industrial Use

The seminar was held in Otaniemi science park in the Helsinki Region and was attended by 66 persons.

The aim of the seminar was to gather Finnish and Russian companies and research organisations interested in nanoparticles to learn from each others and think about new activities. OMNI-NET was introduced by Jouko Strand as a platform for new project ideas. The aim was also to establish a Finnish - Russian collaborative partnership with complementary partners from Russia and Finland. The idea was to find ways to boost research results into commercial applications.

The Russian partner CONCERN NANO-INDUSTRY from Moscow represented a selected group of key actors in Russian nanotechnology - from nanomaterials to instruments for nanotechnology research. Some topics presented by the Russian participants were Polymer nanocomposites, Nanodisperse Repair-And-Rehabilitation Compounds and Tools for Nanotechnology - UMKA Nanotechnological AFM System and Ellipsometers.

The presentations of Finnish partners were on Nanomaterial Research at VTT, Novel Carbon Nanomaterials (new findings in CNT research), Multicomponent nanoparticle synthesis and functional coatings by nHalo process and the role of Nanoparticles in Printable Electronics. The seminar ended with a get together-event. The presentations can be downloaded from:

<http://www.fmnt.fi/nanoparticles>.

PROJECT RESULTS

March 14th 2007: Printed Intelligence - Printable Electronics

The most current topic was introduced by the presentations: “Printed Intelligent Products – product ideas and future” and “Printed Electronics – possibilities and threats in commercializing”, by VTT, “SoftBattery in Applications of Printable Electronics by Enfucell Oy, “Trackway-software as link to Printed Intelligence” by Trackway Oy. Jouko Strand presented the OMNI-NET European Meta-Cluster as platform for new FP7 project ideas. The workshop with 66 participants ended with discussions about what possibilities of business printed Intelligence can offer for innovative young companies.

The third local OMNI-NET seminar in Finland, Nano&Micro Technologies – New Challenges, New opportunities, will be organized in Joensuu 14th June as optional seminar of the 12th world conference of tool makers. The organizers are FMNT and Technology Industry of Finland. Planned topics are Precision manufacturing, Micro and Nanopatterning and New challenges in Measuring Nano and Micro and of course information about the OMNI-NET project.

THÜRINGEN INNOVATIV (GERMANY)

Thüringen innovativ organised 4 workshops encompassing the topic “European Research Funding”:

April 12th 2007	FZMB Bad Langensalza
April 18th 2007	IBA Heiligenstadt
May 22nd 2007	Messe Erfurt
June 4th 2007	IHK Ostthüringen Gera

A fifth seminar is planned on June 14th 2007 in Nordhausen.

SEE FURTHER:

<http://www.imtec.net/istma>

UPCOMING

EUROPEAN CONVENTIONS

After the organisation of local seminars, the next step of workpackage 3 is the organisation of three European conventions. In order to prepare them, the mature clusters delivered and exchanged lists and profiles of companies participating in their regional workshops.

Hessen Agentur collected these profiles, which were then classified according to fields of work and interest as well as the most promising collaboration opportunities.

This catalogue serves as a basis for the topics and potential participants of the conventions. **However, there is also an opportunity to participate for other companies that express their interest.**

Primarily, the conventions will be a platform for communication and exchange between the participating enterprises.

Aims of the planned events are:

- * presentation of the context to participants
- * list of potential opportunities for collaboration
- * presentation of collaborative projects by players
- * organisation of separate meetings for players interested in the same project

Responsible for the organisation of the conventions are Scottish Enterprise, **Opticsvalley**, Steinbeis Europa Zentrum and Photonics BW. The first one is planned for September 6th 2007 in Aalen near Stuttgart and will cover the field of laser technologies in microlithography, materials processing, measurement and medicine.

More information on the European conventions will be available on the Europe Innova's website on the OMNI-NET pages.

If you are interested in participating at one of our events, please contact Fiona Gerente:

f.gerente@opticsvalley.org.

SEE FURTHER:

THE
CLUSTER NETWORKS
SECTION
ICT/OPTICS
ON:

www.europe-innova.org

SPOT ON...

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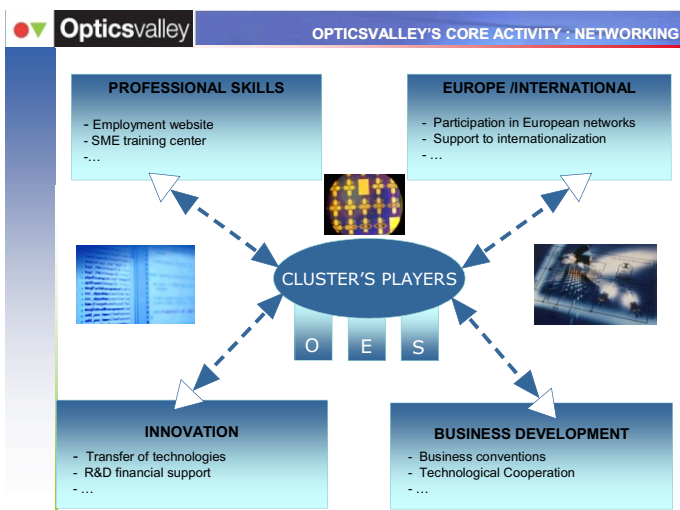
OPTICSVALLEY

Opticsvalley is the Paris-Region's leading network in the fields of Optics, Electronics and Software Engineering.

Through its support activities **Opticsvalley** aims to:

- * Promote innovation at the service of network development
- * Contribute to the Paris-Region's economic development, by fostering the region's attractiveness and employment
- * Facilitate the convergence of optics, electronics and software engineering

Supported by local and regional governments, **Opticsvalley** gathers circa 100 members : large, small and medium sized companies, research and training centers and institutional partners.



SPOT ON...

FACTS AND FIGURES

The cluster gathers:

- * 7,500 industrial players with more than 200,000 employees

Technologies in the Optics, Electronics and Software engineering fields (OES) are:

- * multi-applicative (technologies used in various industries and markets)
- * diffusing (one technology can be re-used by several industrial sectors)
- * enabling (key technologies for final products)

Manufacturing and technological development:

- * 1,000 entities of which more than 90 % are SMEs
- * 45,000 employees of which more than 50% work in SMEs
- * Plain hardware and software activities represent respectively 25% and 23% of the employment
- * Companies producing both hardware and software represent 52% of the employment

Higher education and public research activities:

- * 138 higher education centers and more than 350 training programs
- * 10,500 researchers within 176 laboratories

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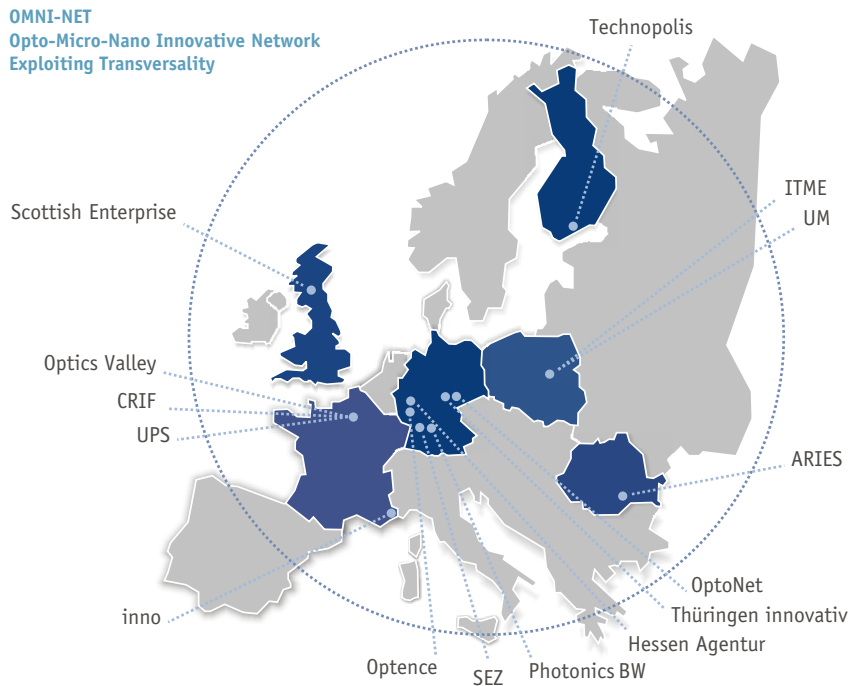
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PARTICIPANT ORGANISATION NAME

COUNTRY

Optics Valley	FRANCE
Conseil Régional Ile-de-France (CRIF)	FRANCE
University of Paris XI (UPS)	FRANCE
inno TSD	FRANCE
Optence e.V.	GERMANY
HA Hessen Agentur GmbH	GERMANY
OptoNet e.V.	GERMANY
Thüringen innovativ	GERMANY
Photonics BW e.V.	GERMANY
Steinbeis-Europa-Zentrum (SEZ)	GERMANY
Scottish Enterprise - Microelectronics and Optoelectronics Cluster	UNITED KINGDOM
Technopolis Ventures Ltd. Finnish microelectronics cluster	FINLAND
Romanian Association for Electronic and Software Industry (ARIES)	ROMANIA
Urząd Marszałkowski, Mazovia regional authority (UM)	POLAND
Polish Optoelectronics Consortium (ITME)	POLAND