



Contents

1. Introduction

2. From the European Commission - Pre-proposal Service

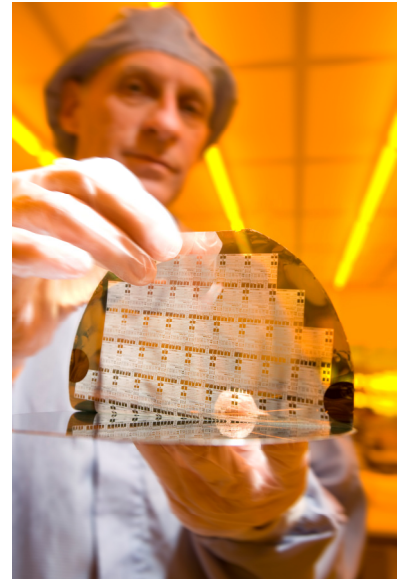
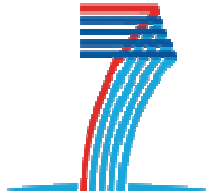
3. Quadriga Partners Project News

- Opera
- PolyMAP
- PolyNet
- Prodi

4. General News Lope-C

5. How to join the Quadriga Associated Network Members

6. Upcoming Events



Courtesy of the Holst Centre

Welcome to the second issue of the Quadriga Newsletter.

This newsletter will be published a minimum of 3 times a year and it will inform you of progress within the 4 Quadriga Partners Projects. Additionally it will contain information about major developments, and research achievements in the field of the Organic & Large Area electronics (OLAE) in Europe, plus important updates about call for proposals from the Commission in Brussels and upcoming events.

The Quadriga Project is a joint initiative of the European Commission, the Directorate General of Information Technology & Media and 3 Coordination Action Projects and one Network of Excellence within the seventh framework programme: OPERA, Polynet, Polymap and Prodi. The main and common objectives of all four collaborative projects are to foster the position of Europe as the gravitation point in the research of organic & large area electronics, and to strengthen the position of Europe as a main hub in this area. Ultimately the objective is to contribute to the creation of new start-ups and to the creation of a knowledge based European economy with strong comparative advantages.

We hope you find it informative and interesting and we welcome feedback and contributions.

The Quadriga Partners

(For more information and project links go to <http://www.quadriga-org.eu/>).





From the European Commission

PRE-PROPOSAL SERVICE

A pre-proposal service is available for the first time to proposers submitting their proposals in the R&D objective ICT-2009-3.3 "[Flexible, organic and large area electronics](#)".

To take advantage of this service the proposers should complete the pre-proposal form which is available for download on the Organic and Large Area Electronics Website on CORDIS (<http://cordis.europa.eu/fp7/ict/organic-elec-visual-display>) and send it to the email address: INFSO-FOLAE-ELECTRONICS@ec.europa.eu. This form may be submitted at any time until three weeks before the close of this call on 1 April 2009 at 5:00 pm.

The Commission services will reply by fax or electronic mail giving a brief assessment of this pre-proposal. The assessment does not constitute in any respect a pre-evaluation of the proposal in terms of scientific and technical quality. The advice given by the Commission is strictly informal and non-binding. The advice provided through this pre-proposal check does not in any way engage the Commission with regard to acceptance or rejection of the proposal when it is formally submitted.

The table below summarizes basic information on the R&D objective ICT-2009-3.3 "Flexible, organic and large area electronics".

Publication date: 19.11.2008

Closure date: 01.04.2009

Budget: 60 M€

Funding schemes: IPs, STREPs, NoE, CSAs

An extract of the ICT Work Programme 2009-2010 on the R&D objective "Flexible, organic and large area electronics" can be found: ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/organic-elec-visual-display/folae-wp-09-10_en.pdf. For further details, please visit the website on CORDIS <http://cordis.europa.eu/fp7/ict/organic-elec-visual-display>. The ICT Work Programme 2009-2010 is available for download here: ftp://ftp.cordis.europa.eu/pub/fp7/ict/docs/ict-wp-2009-10_en.pdf



Quadriga Partner Project News

OPERA

Work Package 4

OLAE SME Entrepreneurship Training Programme and OLAE Venture Forum

Date: 18 – 19 May 2009

The overall objective of the Entrepreneurship work package (WP4) of Opera is to help establish structures that actively support existing SMEs and start-ups and enhance the global competitive positioning of European SMEs in relevant technology areas. In spring 2009 Opera project team will organise two important events to foster its objectives: **Entrepreneurship Training Programme and Organic Electronics Venture Forum**.

The One-day-long Organic and Large Area Electronics SME Entrepreneurship Training Programme will be held on May 18, 2009. The main objective of this pilot programme is to help would-be academic entrepreneurs and small teams with a preliminary business idea develop their ideas towards a complete

business plan. Moreover, the aim is to evaluate the training concept and to draft a plan for the continuation of the programme after the Opera project. The main method of instruction will be group work facilitated by experienced mentors and supporting lectures. The objective is to enroll 10 participants (individuals or small teams) across Europe, and scouting for potential participants is currently underway. All Quadriga project partners are requested to identify potential participants. Contact person: Raimo Korhonen, VTT (e-mail: raimo.korhonen@vtt.fi).

The Organic and Large Area Electronics Venture Forum will take place on the following day, May 19, 2009. The main objective of the Venture Forum is to facilitate investor-entrepreneur interactions and to help channel private money into this emerging industry. We are currently in the process of scanning for presenting companies in search of private investment, as well as venture capital firms in search of new investment opportunities in emerging technologies. The members of our steering group are Capricorn Venture Partners (Belgium), Sofinnova (France), Intel Capital Europe (UK), and BASF Venture Capital (Germany), and they have also expressed their interest in attending the forum itself. The objective is to enroll 15-20 companies with a promising business plan. By early February four SMEs had already expressed their interest to participate, but more are still needed. Venture Forum website has been established at <http://opera-project.eu/index.php?id=13&lang=EN>. The website contains a preliminary programme, including important deadlines, instructions for participants and contact information, and a link to a downloadable brochure. Contact person: Jari Kettunen, VTT (e-mail: jari.kettunen@vtt.fi).

Venue: To be announced shortly on the OPERA website
<http://opera-project.eu/>

Work Package 1

Stakeholders Survey

For work package 1, we continued with the Stakeholders Survey and collected a total of 144 responses from key stakeholders within the field of organic and large area electronics in Europe.

The responses were made up of 45% companies, 25% universities and 23% research institutes. We received surveys from all across Europe but the dominant areas of responses were from Germany [20%], Switzerland [15%], UK [13%], France [10%], Netherlands [9%] and Italy [8%]

Most new business and opportunities perceived to be in displays (24%), lighting and signage (19%) and OPV (18%), followed by sensing (13%) and smart labeling and tagging (10%).

There was a common call for more collaboration between industry and science and stronger government funding for innovation and commercialization.

The main concerns were about a lack of investment in manufacturing, lack of industry structure, lack of company funding, lack of entrepreneurs, lack of collaboration between industry and science, commercial competence and weak innovation adoption.

Further statistics showed the following:

- ✦ 64% of the respondents have already got a technology strategy for OLAE in place.
 - ✦ 87% of companies and 91% of universities/research institutes are seeking partners for collaboration.
- The Stakeholders are interested in discussing the key issues of technology (86%), strategy (53%) and funding (57%) with their peers.

The Survey produced some very clear opinions about the opportunities within the industry and the concerns regarding the problems that need to be overcome in order to strengthen Europe's position. The full report was sent to all of those who participated in it. It is also available upon request. Please email victoria.plompen@plastic-electronics.org. Thank you to everyone who took the time to participate in it.



OPERA



OPERA Vision Paper Update:

The details of the progress that is being made resulting from the vision paper (pdf version available by emailing victoria.plompen@plastic-electronics.org) will be available shortly on the Opera website.

For more information on OPERA go to <http://www.opera-project.eu>



POLYMAP

There are no submissions for this issue of the Quadriga newsletter but please keep up to date with Polymap's project news on: <http://www.polymap.eu/>



POLYNET

The NoE PolyNet (Network of Excellence for the Exploitation of Organic and Large Area Electronics / OLAE) aims to establish Europe in the OLAE area as the world leader in science, technology development and subsequent commercial exploitation of printing and large area technologies for heterointegration of flexible electronics.

For further information on the PolyNet core platforms

- 1) **Research Cooperation Platform** (platform leader Isak Engquist: (isaen@itn.liu.se / Linköping University, Sweden))
 - 2) **Service Platform** (platform leader Markku Käsäkoski: (Markku.Kansakoski@vtt.fi / VTT, Finland))
 - 3) **Knowledge Platform** (platform leader Isabelle Chartier: (isabelle.chartier@cea.fr / CEA-LITEN, France))
- please go to www.vdivde-it.de/polynet .

News from the PolyNet Platforms

Research Cooperation Platform

Currently six PolyNet research collaborations are running. For a comprehensive overview on the first year's results of the research collaborations please go to: <http://www.vdivde-it.de/polynet/public/res-coll-results/>

For more information please contact the leader of the Research Cooperation Platform: (See above).

Service Platform

NEW: The PolyNet Service Platform contact is online now. Please use it to send your requests for OLAE services to the PolyNet team : <http://www.vdivde-it.de/polynet/public/services>

For the results of the PolyNet industrial workshops please see <http://www.vdivde-it.de/polynet/public/public-events/polynet-ws-1/polynet-workshop-no-1> => "related content" and <http://www.vdivde-it.de/polynet/public/public-events/industrial-ws-no-2>

*Knowledge Platform*

NEW: EOOE report No. 1 with selected topics is available now: <http://www.vdivde-it.de/polynet/public/eooe-results/eooe-report-no-1/>. Please find conference reports from the Knowledge Platform on Organic and Large Area Electronics related conferences here: <http://www.vdivde-it.de/polynet/public/eooe-results/eooe-conference-reports/>

Pre-announcements PolyNet Events

ICOE 2009 (June 15 - 17.06.2009 – Liverpool, United Kingdom): Special Session on Nano Imprint Lithography

LOPE-C 2009 (<http://www.lope-c.com/> - 23. – 25.06.2009 – Frankfurt/M., Germany): Find PolyNet in the Quadriga booth

ISFOE 2009 (<http://isfoe.physics.auth.gr/> - 8. – 10.07.2009 - Halkidiki, Greece): Special Session on Multifunctional Materials

Contact PolyNet coordinator

Lars HEINZE / VDI/VDE Innovation + Technik GmbH, Steinplatz 1, 10623 Berlin, Germany
Tel. +49 30 310078 165 / Fax +49 30 310078 223
heinze@vdivde-it.de, <http://www.vdivde-it.de/polynet>

**PRODI**

Chemnitz University of Technology is going to organize the Second PRODI Intensive Course and Workshop. The details are as follows:

Date: **Wednesday, April 22nd, 2009**

Time: **08:30 - 19:00 hrs CET**

Location: **Institute for Printing and Media Technology**

Chemnitz University of Technology

Orange Lecture Hall

Reichenhainer Straße 70

09126 Chemnitz

Germany

“Introduction to advanced printing technologies”

- a comprehensive overview comprising;

- introduction to printing processes
- printed functionalities and their special requirements
- economic aspects and concepts
- state-of-the-art applications in the field

- addresses industrial R&D staff members, industry professionals and SME representatives from Europe as well as young academic researchers who are already active in or entering the field of R2R printing of functionalities

General chair: Prof. Dr. Reinhard Baumann 5

Contact: Ulrike Geyer
ulrike.geyer@mb.tu-chemnitz.de
 Tel: +49 (0) 371 531 37517
 Fax: +49 (0) 371 531 836884

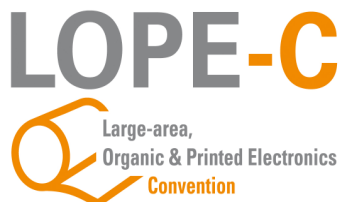
Further Prodi News:

Prodi Industrial Advisory Board (IAB) will have a working meeting in Spring and a follow-up meeting on 25 June, 2009 at LOPE-C conference. The working meeting will be either in conjunction with the OE-A 18th Working Group meeting in March or as a separate event in May. The IAB members have been approached with a request to vote for the preferred day.

For more information on the Prodi project, please go to <http://www.project-prodi.eu/>

GENERAL NEWS

Call for papers **for the peer-reviewed track and the interactive session**



June 23–25, 2009
 Congress Center, Messe Frankfurt, Germany

www.lope-c.com

Submit your paper now!

Due date for submission is February 23, 2009

Download Call for Papers and submission form at www.lope-c.com/callforpapers

About LOPE-C

LOPE-C 2009 is the premier conference and exhibition on organic and printed electronics, hosted by the Organic Electronics Association (**OE-A**) and Messe Frankfurt Ausstellungen GmbH (**MFA**).

The Topics

Materials, devices, manufacturing processes, equipment for large-area, organic and printed electronics, in particular:

- **Materials:** organic, inorganic, carbon and nano materials, semiconductors, conductors, dielectrics, substrates
- **Devices:** transistors, diodes, sensors, circuitry, power sources, backplanes, photovoltaics, lighting, memory, displays, smart textiles and further applications
- **Device and Circuitry Design, Simulations**
- **Printing, Patterning Technologies and Appropriate Equipment:** traditional printing processes (gravure, flexo, offset, screen etc), ink-jet, laser patterning, large-area patterning techniques, nano patterning technologies, Micro- and dip-pen and further technologies
- **Products** with integrated large-area electronics
- **Quality Control in Production Lines**



General News

Author Benefits.

All authors – from industry and academia – **of papers** accepted in the peer-review process qualify for the academic delegate rate **of 395 Euros**.

Take note of the following dates:

Deadline for Submission of Abstracts: February 23, 2009

Notification of Abstract Acceptance: April 6, 2009

Final Submission of Contribution: May 7, 2009

Presentation June 24 & 25, 2009

Please submit your abstract to peer-review@lope-c.com.

Do not miss this opportunity to meet scientific and industrial experts from all over the world!

Prof. Reinhard R. Baumann (Chairman of the [Scientific Board](#))

Fraunhofer ENAS

Email: reinhard.baumann@mb.tu-chemnitz.de

Dr. Klaus Hecker

Organic Electronics Association (OE-A)

Email: peer-review@lope-c.com

Internet: www.oe-a.org

www.lope-c.com

For your information, the Quadriga Partners will share a booth at Lope-c so come and visit us!



Offer to become a member of the Quadriga Associated Network on Organic and Large Area Electronics

The Quadriga Project is a joint initiative of the European Commission, the Directorate General of Information Technology & Media and 4 Collaboration Action Projects within the seventh Framework Program: OPERA, PolyNet, PolyMap & Prodi [See also www.quadriga-org.eu]. The main objectives of all four collaborative projects is to foster the position of Europe as a gravitation point in the research of organic & large area electronics, to strengthen the position of Europe as a main hub in this area and ultimately to contribute to the creation of new start-ups and to the creation of knowledge based employment. The first OLAE newsletter which was published by the EU is now available on the website. Contributions for the second are welcome and we will endeavor to include all relevant news submitted.

Here are just a few of the benefits offered:

You will receive **newsletters** on the topic area of large area and organic electronics regularly, but at least twice a year;

You will receive first hand information and participation details about **Networking Events** organized by the EU;

You will receive **advanced information** about Quadriga Workshops on the topic area;

You will receive **preferred registration** information about all Quadriga events

Please go to the following at www.quadriga-org.eu/index.php?id=12&lang=EN to register

GENERAL



For more information on Quadriga please go to <http://www.quadriga-org.eu/>

Disclaimer:

The Quadriga Newsletter is published under the responsibility of the four Quadriga Partners in the capacity of an editorial board. The Quadriga Partners cannot be held responsible for any 3rd party contributions.

The next issue of the Quadriga Newsletter will be released in June. If you have any news or wish to have an event included in the “Upcoming Events” section, please email copy to: victoria.plompen@plastic-electronics.org before 30th May 2009.

We would like to thank all contributors for their work.

UPCOMING EVENTS

5th Global Plastic Electronics Conference and Showcase



27, 28 & 29 October 2009
Maritim Hotel & Conference Centre, Dresden, Germany
<http://www.plastic-electronics.org/global/>

OE-A 19th WG Meeting
9 – 10 November 2009
Venue to be announced
www.oe-a.org

OPERA Entrepreneurship Training Pilot

18 May 2009

(Further details to be announced)

www.opera-project.eu

OPERA Organic Electronics Venture Forum

19 May 2009

(Further details to be announced.)

The OPERA Organic Electronics Venture Forum is organised by an EU-sponsored project OPERA [www.opera-project.eu]. OPERA aims to develop the competitiveness of Europe in the field of organic and large area electronics. A particular objective of the project is to boost entrepreneurship and to facilitate interactions between European investors and new start-ups and SMEs.

The OPERA Venture Forum will bring together ventures seeking new capital and venture capital firms seeking new investment opportunities. The participating companies can be at any stage of their development path, but especially new start-ups are encouraged to participate.

More information will be released shortly. Enquiries to victoria.plompen@plastic-electronics.org

<http://opera-project.eu/index.php?id=13&lang=EN>

Frontiers in Polymer Science

7 – 9 June 2009

Mainz, Germany

www.frontiersinpolymerscience.com

The 34th IEEE Photovoltaic Specialists Conference

7 - 12 June 2009 - Philadelphia, Pennsylvania, USA

We expect to present a very strong Technical Program that will encompass 9 programmatic areas covering topics from novel materials and devices, thin film cells made from CIGS and CdTe and emerging semiconductors, crystalline and amorphous silicon, III-V cells, concentrator devices and systems, space technologies, and module and system experience including reliability studies.

<http://www.34pvsc.org/>

6th International Conference on Organic Electronics,

15 – 17 June 2009 - City Centre Campus, University of Liverpool, Liverpool

The conference dinner and accommodation is at the Adelphi Hotel. The deadline for papers is the last day of February 09. They should be sent to icoe09@liverpool.ac.uk.

OE-A 5th Annual General Assembly including Elections to the OE-A Board

22 June 2009-02-02 VDMA, Frankfurt, Germany

www.oe-a.org

LOPE-C, Large-area Organic and Printed Electronics Convention

June 23-25, 2009, Frankfurt, Germany,

The official annual conference & exhibition of the Organic Electronics Association (OE-A)

<http://www.lope-c.com>

ISFOE 09

2nd International Symposium on Flexible Organic Electronics

July 8 -10 2009, Porto Carras Hotel, Halkidiki, Greece

<http://nn.physics.auth.gr/isfoe>

OE-A 18th WG Meeting

15 – 16 September 2009

Hosted by VTT Technical Research Centre, Espoo, Finland

www.oe-a.org



Upcoming Events

Innovationdays 2009

16 – 19 February 2009
 Allmend Exhibition Area, Lucerne, Switzerland
www.innovationdays.com

Doxnet

(Doxnet is an event within Innovationdays 2009)
 17 February 2009
 Conference Centre of Verkehrshaus of Switzerland
www.doxnet.eu

2009 International Thin Film Transistors Conference ITC'09

5 – 6 March 2009
 Ecole Polytechnique (near Paris), France
<http://www.polytechnique.fr/itc09>

Smart Systems Integration 2009

10 – 11 March 2009
 Brussels, Belgium
www.mesago.de

OE-A 17th WG Meeting

17 – 18 March 2009
 Hosted by PETEC/CPI, Sedgefield, Durham, UK
 (PETEC launch event on 17 March)
www.oe-a.org

Printed Electronics Conference

7 – 8 April 2009
 Maritim Hotel, Dresden, Germany
 IDTechEx
<http://www.idtechex.com/printedelectronicseurope09/en/>

5th International Conference on Nanostructured Polymers and Nanocomposite

15 – 17 April 2009
 Arts et Métiers ParisTech, Bld. de l'Hôpital (Metro Place d'Italie), Paris, France
 Scientific topics

- Chemistry of nanostructured polymers and copolymers
- Physics of soft matter in nanostructured polymers: relaxation phenomena, optoelectronic and magnetic properties
- Nanostructured blends and copolymers
- Nanofillers: carbon nanotubes and nanofibers, hybrids, POSS and metaloxo clusters, nanocellulose
- Nanostructured coatings and adhesives
- Processing of nanostructured polymers and nanocomposites
- Advanced characterization techniques
- Mathematical modelling
- Life Cycle Analysis

www.nanofun-poly.org www.ecnp.eu.org

Tech Connect World, Conference & Expo 2009

3 – 7 May 2009
 George R Brown Convention Centre, Houston, TX
 Connecting innovative technologies to the marketplace.
<http://www.techconnect.org/Summit2009/>

SPIE Europe – Microtechnology for the New Millenium

10 – 12 May 2009
 Dresden, Germany
<http://spie.org/x26212.xml>