

Thematic priority

Green Technology Trends in Flat Panel Displays

Green Legislation > Europe has a very tough environmental legislation and display manufacturers targeting the European market have to make sure that their products comply with these rules. The RoHS regulation on the restriction of hazardous substances - introduced in 2006 - is currently being revised and updated. The REACH directive on the registration, evaluation, authorisation and restriction of chemicals just came into force. WEEE, the waste electrical and electronic equipment act, forces manufacturers to think about the recycling at the end-of-life of their products. The EuP (energy-using products) directive finally encourages environmentally friendly design.

Eco Labelling > There is a variety of eco labels available on the market. Some of them, like the blue angle, the EU eco label or the energy star, have clear requirements and restrictions towards the products that are granted these labels. Others, like the EU energy label, have to be used by all manufacturers to guide the consumer. Besides, manufacturers create their own eco labels to promote their products.

Eco-friendly new display technologies > Many new display technologies emerge on the market that claim for themselves to be environmentally friendly and energy saving. Among those are bistable display technologies like cholesteric colour displays for signage, e-paper technologies used mainly for small handheld applications and electrowetting technologies as well as the self-emitting OLED technology.

Improving existing display technologies > Both legal obligations as well as increasing consumer awareness force display manufacturers to redesign and improve their products as well as to change their marketing strategies. These include to increase the power efficiency of displays, the reduction of materials used (saving both costs and waste) and the replacement of components (e.g. CCFL vs. LEDs).

The meeting > At the 33rd DFF Working Group Meeting of DFF, we will first look at the legal obligations caused by the RoHS, WEEE, REACH and EuP directives. The second half of the meeting will present a closer look on voluntary self-obligations and marketing aspects, including new and greener display technologies.

Contact:

German Flat Panel Display Forum (DFF)

Dr. Susanne Bieller

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www.displayforum.de/service/networking.htm



March 25, 2010
8:45 - 16:00 h
Regensburg, Germany

www.displayforum.de

Working Group Meeting

"Green Technology Trends in
Flat Panel Displays"

Invitation

33rd Working Group Meeting of the
German Flat Panel Display Forum (DFF) hosted by
OSRAM Opto Semiconductors GmbH
in Regensburg, Germany
Wednesday / Thursday, March 24/25, 2010



Programme

Wednesday, March 24, 2010

15:45 - 17:30 **Company Tour**

OSRAM Opto Semiconductor GmbH
Leibnizstr. 4
93055 Regensburg, Germany
Phone: +49 941 850-1611

How to get there, see below.



17:30 - 20:00 **Networking Get-Together**

Participants and guests of the company tour and the DFF working group meeting will meet for a networking get-together following the company tour.

Address see above.

Thursday, March 25, 2010

8:45 - 16:00 **33rd Working Group Meeting of the German Flat Panel Display Forum**

Thematic Priority: “Green Technology Trends in Flat Panel Displays”

Hansa Apart-Hotel
Friedensstr. 7
93051 Regensburg
Phone: +49 941 99 29-0

How to get there, see below.



The Topic: Green Technology Trends In Flat Panel Displays

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The meeting > At the 33rd DFF Working Group Meeting of DFF, we will first look at the legal obligations caused by the RoHS, WEEE, REACH and EuP directives. The second half of the meeting will present a closer look on voluntary self-obligations and marketing aspects, including new and greener display technologies. The 33rd DFF Working Group Meeting is hosted by Osram Opto Semiconductors in Regensburg, Germany. On the eve of the meeting, we will have the chance to visit the Osram site in Regensburg and to network in a joint get-together.

The agenda will be distributed some weeks before the meeting.

Registration

Please register by fax (see last page) or e-mail by **March 8, 2010** to:

Ms Sabine Egerer

Fax.: ++49 (0)69 / 66 03-25 92

email: sabine.egerer@vdma.org

For our guests and lecturers

Please email your presentation as PDF- or PowerPoint-File to Dr. Susanne Bieller (dff@vdma.org) by **March 22nd**. Note that attachments >5MB may suffer from transmitting problems, so please send a control mail without any attachment, simultaneously.

A PC (running PowerPoint 2003) and a projector will be available during the meeting.

Your presentation will be published in the annex of the minutes.

All **new members and guests** are invited to briefly introduce their companies.

We also want to encourage our **long-time members** to give a short update on their current activities in the materials sector. If you are interested to do so, please send a short note to Dr. Susanne Bieller (dff@vdma.org).

A PowerPoint presentation template will be sent to you prior to the meeting. Please use this file for your company presentation. In order to not completely get beyond schedule, we have to restrict the short presentations to three slides.

Accommodation

For the night March 24/25 we suggest the following hotels:

Hansa Apart-Hotel

Friedensstr. 7

93051 Regensburg

Phone: +49 941 99 29-0

Rate: 110,- € Standard

120,- € Komfort

130,- € Premium

www.hansa-apart-hotel.de

Hotel Courtyard Marriot

Bamberger Str. 28

93059 Regensburg

Phone: +49 941 8 10 10

Rate: 99,- € (Rooms have to be booked by March 10)

www.marriott.de

Altstadthotel Am Pach

Untere Bachgasse 9

93047 Regensburg

Phone: +49 941 298 61-0

Rate: 93,- €

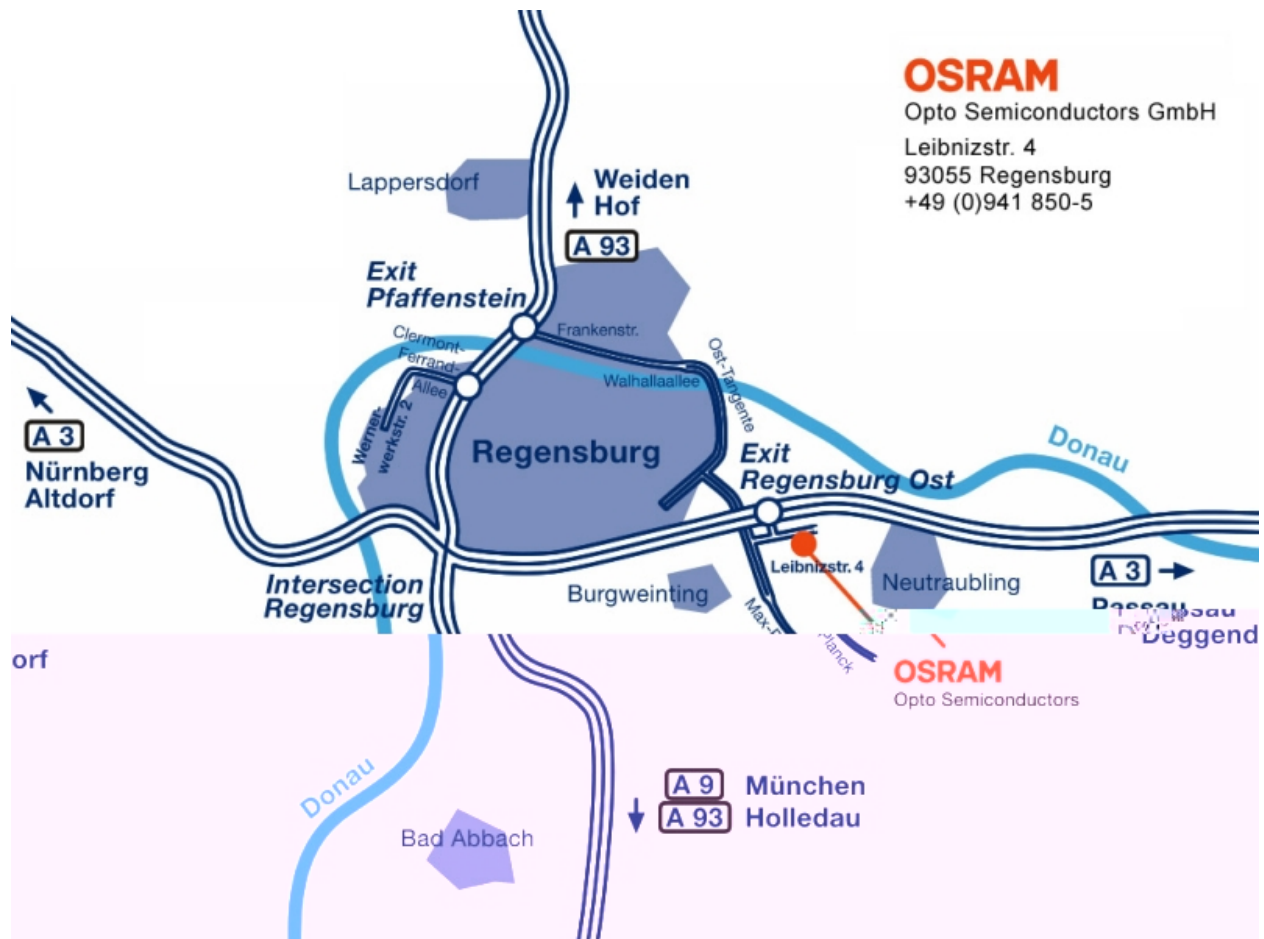
103,- € double room for single use (Rooms have to be booked by February 24)

www.ampach.de

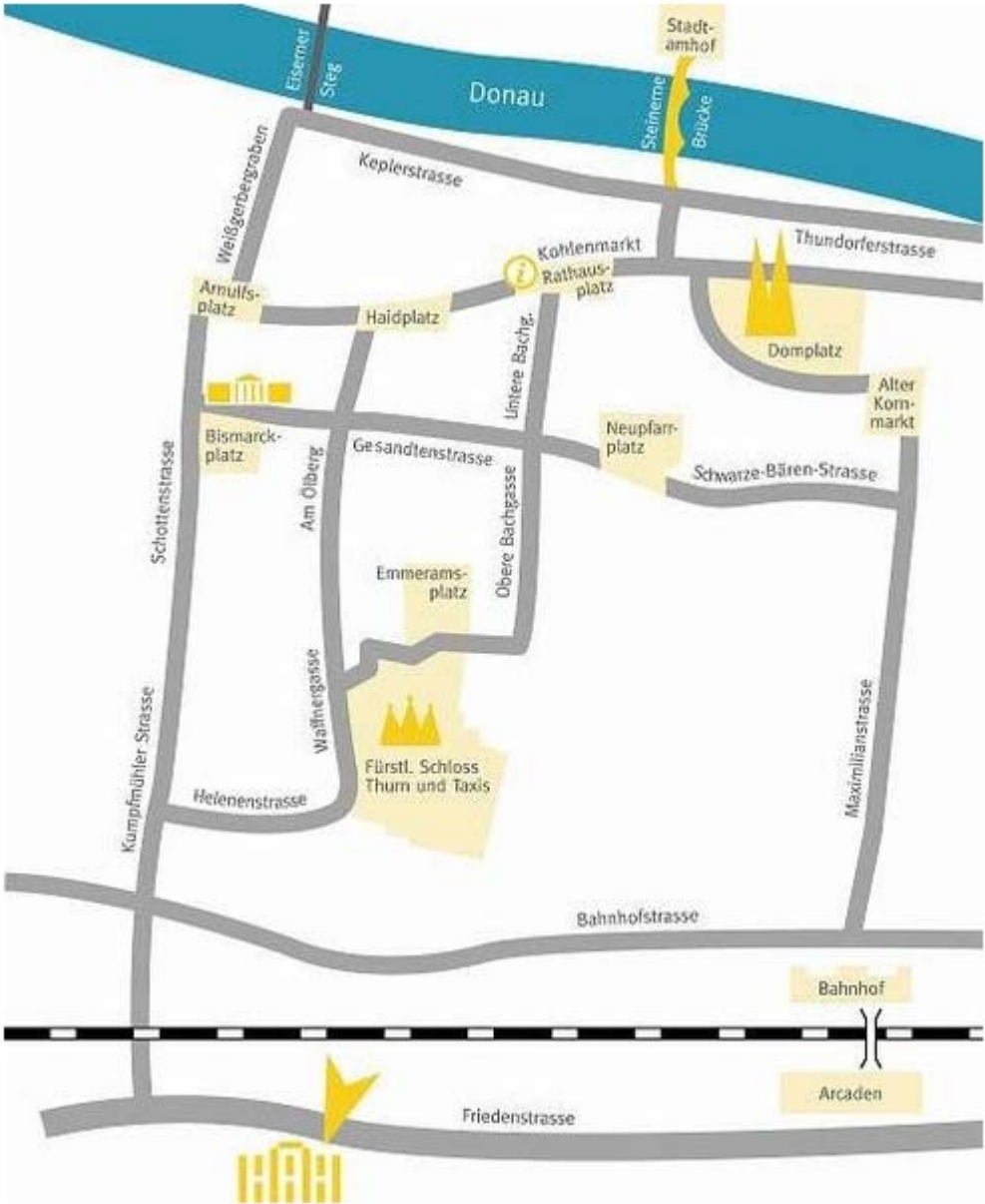
Please book your rooms directly with the hotels by quoting: "DFF"

Please note that early booking is urgently recommended because a large international congress is taking place in Regensburg at the same time.

Directions to OSRAM Opto Semiconductor GmbH, Leibnizstr. 4



Directions to Hansa Apart-Hotel, Venue of the Working Group Meeting



German Flat Panel Display Forum

DFF Working Group Meeting in Regensburg,
March 24/25, 2010



Fax Reply

Please return by March 8, 2010

Ms Sabine Egerer
German Flat Panel Display Forum (DFF)
VDMA – The German Engineering Federation
Lyoner Str. 18

60528 Frankfurt/Main (Germany)

Fax-Nr.: ++49 (0)69 / 6603 - 2592

Please use the tick boxes to indicate the events you plan to attend:

Event		
Company Tour (all participants)	March 24, 15:45 - 17:30	<input type="checkbox"/> yes <input type="checkbox"/> no
Get-Together (all participants)	March 24, 17:30 - 20:00	<input type="checkbox"/> yes <input type="checkbox"/> no
33 rd DFF Working Group Meeting (WGM)	March 25, 08:45 - 16:00	<input type="checkbox"/> yes <input type="checkbox"/> no
I want to give a company presentation	(during the WGM)	<input type="checkbox"/> yes <input type="checkbox"/> no
Please send me the DFF-Brochure		<input type="checkbox"/> yes <input type="checkbox"/> no

Title, Name

Phone

Fax

eMail

Company / Institute

Street

Postal Code/City

Country

Internet Address

Place, Date

Signature

33rd Working Group Meeting
of the German Flat Panel Display Forum

Green Technology Trends in Flat Panel Displays

March 25, 2010, 8:45 a.m. – 4:00 p.m.
Hansa-Apart-Hotel, Regensburg

Agenda

1. Introductory Session and Overview

08:45 – 09:00 Registration

09:00 – 09:10 Welcome and Opening Remarks

Dr. Jörg Winkler

Plansee Metall GmbH

DFF Chairman "FPD Technologies"

Robert Isele

BMW AG

DFF Chairman "FPD Applications"

Dr. Rüdiger Müller

CEO, Osram Opto Semiconductors

09:10 – 09:25 Short Company Presentations
(max. 3 minutes each)

**New DFF members
and guests**

2. New energy saving display technologies

**09:25 – 09:45 Green Information Systems for Outdoor
Applications based on ChLCDs**

Dr. Christoph Supritz

AEG MIS

09:45 – 10:05 Is e-paper saving forests?

Alex Henzen

iRex Technologies

10:05 – 10:25 Low-power electrochromic displays

Dr. Gotthard Rieger

Siemens

10:25 – 10:45 Coffee Break

10:45 – 11:05 No-Power - Electrowetting Displays

Dr. Jürgen Rawert

adt Deutschland GmbH

**11:05 – 11:25 Where is the Green in Organic Light Emitting
Diodes?**

Dr.-Ing. Michael Kröger

Innovation Lab GmbH

2. Legal obligations

11:25 – 12:05	An Updated Overview of Global Compliance Requirements for Electronic Products: REACH - RoHS Review - China RoHS	Markus Hornberger Fraunhofer IPA
12:05 – 12:20	Contributions of a chemicals manufacturer to “Green displays”	Dr. Werner Becker Merck KGaA
12:20 – 13:20	Networking Lunch	
13:20 – 13:40	EuP Directive – Concrete requirements	Dr. Floris Akkerman (tbc.) BAM (Bundesanstalt für Materialforschung und –prüfung)
13:40 – 14:00	Challenges and conditions in the collection, transport and treatment chain of LCD displays	Nico Krukenberg Remondis Elektrorecycling

5. Voluntary Self-obligations and marketing aspects – improving LCDs

14:00 – 14:20	High efficacy LEDs enabling energy efficient, eco-friendly displays	Thomas Hutsteiner Osram Opto Semiconductors
14:20 – 14:40	Green Technology in TV and IT Displays	Dr. Thomas Schauneweg LG Displays
14:40 – 15:05	Coffee Break	
15:05 – 15:25	Next generation LCDs – performing higher, using less power	Hajo Koglin Sharp Microelectronics Europe
15:25 – 15:40	LED -- Life Cycle Assessment	Dr. Berit Wessler Osram Opto Semiconductors

5. Discussion Session

15:40 – 15:55	Panel Discussion	All Speakers and participants
15:55 – 16:00	Summary and next steps Adjourn	Dr. Jörg Winkler, Robert Isele