

4th International Symposium on Emerging and Industrial DLP® Applications

Frankfurt/Main, Germany
Conference Center IHK Frankfurt
November 12th, 2009
09:30 h – 17:00 h

Online registration at
www.dlp-symposium.com

Conference Program – Technical Session

DLP® Technology: From Pico to High Performance
Matt Mather, Texas Instruments Inc.

Illumination of DLP® with Laser Light Sources
Dr. Reinhard Völkel, Suss MicroOptics SA

Optically Pumped Semiconductor Lasers (OPSL), an innovative Light Source from UV to IR enabling novel DLP® Applications
Dr. Volker Pfeufer, Coherent Deutschland GmbH

Optimization Potentials in TIR Prisms for DLP® Light Engines
Ludwig Dick, In-Vision Digital Imaging Optics GmbH

(invited) Laser diodes and UV-LEDs for Microdisplay applications
Sönke Baumann, Omicron Laserage GmbH

Low Temperature Operation of DMDs
Kyrre Tangen, Visitech AS

Foyer Exhibition

Products and services from development partners in emerging and industrial DLP® applications are displayed in a comprehensive exhibit. List of exhibitors to be confirmed.

Conference Program – Application Sessions

DLP® Pico Projection Technology for 3D Visualization and Optical 3D Metrology
Dr. Gottfried Frankowski / Robert W. Kuhn, GF Messtechnik GmbH

A compact Light Engine for Narrow Spectral Band Applications
Prof. Udo Rohlfing, Hochschule Darmstadt

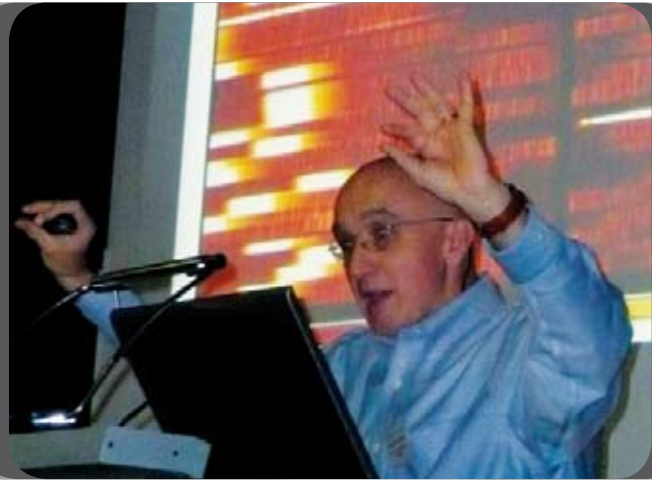
DLP® Applications with Dynamic Optics Speckle Reduction
Fergal Shevlin, Dyoptika Ltd.

Multi Object Spectroscopy and robust, high-speed 3D Shape Measurement using Digital Micro-mirror Devices
Øystein Skotheim / Trine Kirkhus, SINTEF ICT Norway

UV Treatment of Skin Diseases using DLP® Imagers
Prof. Dr. Hans-Dieter Sträter, Leuphana University of Lüneburg

3D Scanning of Human Body Parts
Dr. Roland Höfling, ViaLUX GmbH

Hyperspectral Imaging with programmable light source
To be confirmed



DLP® micro displays enable innovative applications

More than 18 million DLP® chipsets shipped since 1996 build a solid foundation for use of the technology in industrial applications with high reliability demands. The DLP® Discovery series offers accelerated innovation on flexible development platforms, with resolutions from Pico projection (HVGA) to high resolution (WUXGA).

During the past years a wide variety of industrial and scientific applications have been developed, such as Spectroscopy and Hyper Spectral Imaging systems, medical and biotech applications, UV applications in lithography, material processing and rapid prototyping, optical metrology systems for quality inspection, processing inspection and manufacturing or applications in optical networking.

New application fields are rapidly gaining traction, such as augmented reality, head-up displays, holographic data storage, NIR projection systems, neuroscience imaging, volumetric display, and many more.

VAR partners like Visitech AS support product developments with in-depth know-how, expertise and sophisticated building blocks (LUXBEAM® boards and light engines). Additional development partners such as OpSys Project Consulting or In-Vision Digital Imaging GmbH provide optical system design solutions as well as prototyping and production support.

Sponsored by:



Visitech AS · Drammen, Norway



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Texas Instruments Inc. · Plano, TX, USA



In-Vision Digital Imaging GmbH · Guntramsdorf, Austria

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Registration Fees:

Members of Competence Networks (KNOT)

120,00 Euro (until Oct. 15, 2009) 150,00 Euro (after Oct. 15, 2009)

Others

140,00 Euro (until Oct. 15, 2009) 170,00 Euro (after Oct. 15, 2009)

Cancellations prior to Oct. 31, 2009 free of charge; full fee applies after Oct. 31, 2009. Prices incl. VAT.

For general questions please contact:

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Tel +49 (0) 6445 6125090 · Fax +49 (0) 6445 7679
office@opsysconsult.com

For questions on the registration process please contact:

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Tel +49 (0) 6732 935122 · Fax +49 (0) 6732 935123
reuter@optence.de

Location

Chamber of Industry and Commerce (IHK Frankfurt am Main)
Ludwig-Erhard-Saal · Börsenplatz 4 · 60313 Frankfurt/Main · Germany

Parking Options during DLP®-Symposium

Parking Garage „Börse“ · Meisengasse, Frankfurt/M
Parking Garage „Schiller-Passage“ · Taubenstraße 11, Frankfurt/M



with



4th International Symposium on Emerging and Industrial DLP® Applications

Sponsored by:

VISITECH

Visitech AS
Drammen, Norway

in-VISION®
a *Digital Imaging*® Company

In-Vision Digital Imaging GmbH
Guntramsdorf, Austria

DLP®
TEXAS INSTRUMENTS

Texas Instruments Inc.
Plano, TX, USA

Date: November 12, 2009

Time: 09:30 h – 17:00 h

Location: Chamber of Industry and Commerce (IHK Frankfurt am Main)
Ludwig-Erhard-Saal
Börsenplatz 4, 60313 Frankfurt/Main, Germany

with



Program and Schedule

Plenary Session

- 09:30 h Welcome by Organizers
- 09:35 h Illumination of DLP® with Laser Light Sources
Dr. Reinhard Völkel, Suss MicroOptics SA
- 10:05 h Optically Pumped Semiconductor Lasers (OPSL), an innovative Light Source
from UV to IR enabling novel DLP® Applications
Dr. Volker Pfeufer, Coherent Deutschland GmbH
- 10:35 h Coffee Break
- 11:10 h DLP® Technology: From Pico to High Performance
Matt Mather, Texas Instruments Inc.
- 11.40 h High Power Multi-wavelength Light Sources for DLP Applications
Dr. Richard Du, Aiscent Technologies Ltd.
- 12:00 h Optimization Potentials in TIR Prisms for DLP® Light Engines
Ludwig Dick, In-Vision Digital Imaging Optics GmbH
- 12:30 h Lunch break
- 14:00 h Low Temperature Operation of DMDs
Kyrre Tangen, Visitech AS
- 14:30 h DLP® Applications with Dynamic Optics Speckle Reduction
Fergal Shevlin, Dyoptyka Ltd.
- 14:50 h A compact Reference Light Engine for Narrow Spectral Band Applications
Prof. Udo Rohlfing, Hochschule Darmstadt
- 15:10 h Coffee Break

with



- 15:40 h DLP® Pico Projection Technology for 3D Visualization and Optical 3D Metrology
Dr. Gottfried Frankowski / Robert W. Kuhn, GFMesstechnik GmbH
- 16.00 h Multi Object Spectroscopy and robust, high-speed 3D Shape Measurement using Digital Micro-mirror Devices
Øystein Skotheim / Trine Kirkhus, SINTEF ICT Norway
- 16:20 h UV Treatment of Skin Diseases using DLP® Imagers
Prof. Dr. Hans-Dieter Sträter, Leuphana University of Lüneburg
- 16.40 h 3D Scanning of Human Body Parts
Dr. Roland Höfling, ViaLUX GmbH
- 17:00 h Closing words and end of event
Alfred Jacobsen, OpSys Project Consulting

Moderation: Alfred Jacobsen, OpSys Project Consulting

Foyer Exhibition

Aiscent Technologies Ltd., Canada
BTE Bedampfungstechnik GmbH, Germany
Design!Struktur U. Bernatzki, Germany
Dyoptyka Ltd., Ireland
GF Messtechnik GmbH, Germany
In-Vision Digital Imaging GmbH, Austria
Lasertechs, Eschbach & Hardi GbR
OpSys Project Consulting, Germany
Optence e.V., Germany
Qioptiq Singapore Pte. Ltd., Singapore
Suss MicroOptics SA, Switzerland
ViaLUX GmbH, Germany
Visitech AS, Norway