

Organised by

IMI
EUROPE

Industrial Ink Jet Technology Showcase

Supported by

INPRINT
INDUSTRIAL PRINT SHOW

angelo Hotel
Munich Westpark
Munich, Germany
June 24-25, 2015

The **Ink Jet Technology Showcase** - one of IMI Europe's largest events - has always been great, and this year it's even better! With keynote presentations on emerging markets and applications, Tech Talks covering some of the latest scientific developments, and this year the **InPrint Industrial Print Forum**, it's the ideal place to source ink jet products and services!

InPrint Industrial Print Forum

Wednesday 24 June, 2015



A new section for this 2 day event, focusing on industrial print, is the **InPrint Industrial Print Forum** hosted by Frazer Chesterman and Marcus Timson, organisers of the InPrint trade show. Leading consultants, brand owners and end users will help you understand the current and future capabilities of industrial digital printing. Full details on page 4.

IMI Europe Industrial Ink Jet Technology Showcase

Wednesday 24 - Thursday 25 June, 2015

COME FOR INSPIRATION - INDUSTRY OVERVIEWS

Hear a range of invited speakers inform and inspire you about new applications and markets that are offering exciting new opportunities for ink jet technology. Speakers include **Mark Hanley** of **IT Strategies**, **Jason Oliver** of **Heidelberg**, and **Ingo Ederer** of **Voxeljet**.

HEAR KEY SUPPLIERS PRESENT NEW PRODUCTS

Hear the leading suppliers of hardware, inks, curing systems, and other components and services to the ink jet industry present their company's products and services. Each exhibitor will give a 15 minute presentation. Think how much you can learn without travelling the world to meet with them all!

MEET THE SUPPLIERS AT THE DEVELOPERS FAIR

Meet with the leading suppliers to the ink jet industry during the inclusive conference breaks, lunches and evening reception. Make those important first contacts, catch up on the latest developments and products, or remake old contacts, discuss your latest applications or seek advice.

FREE TRAINING - INK JET TECH TALKS

Join our four optional tutorials at no extra cost for registrants to the Industrial Ink Jet Technology Showcase 2015. Listen to the experts discuss some of the latest scientific findings and techniques - information that you can use immediately!

FEATURED INDUSTRY SUPPLIERS

adphos Digital Printing
Agfa Graphics
Amica Systems Europe
Ardeje
Collins Inkjet
ColorGATE Digital
Excelitas Technologies
Fujifilm Dimatix
Fujifilm Imaging Colorants
Fujifilm Specialty Ink Systems
Global Inkjet Systems
ImageXpert
Kyocera Fin ceramics
Pivotal Resources
Ricoh Europe
RJA Dispersions
TTP Meteor
Wifag - Polytype Technologies
Xennia Technology

Ink Jet Summer School

INK JET ACADEMY
THEORY OF INK JET TECHNOLOGY

INK JET INK MANUFACTURING COURSE
MANUFACTURING INK JET INKS FOR PERFORMANCE & RELIABILITY

JETTING FUNCTIONAL FLUIDS COURSE
RHEOLOGY, DEPOSITION, PROCESS, DEVELOPMENT

IMI Europe's
top 3 courses

JUNE 22-23, 2015

Full course details on pages 9-11

INTRODUCTION

IMI Europe's Industrial Ink Jet Technology Showcase is a proven programme concept to enable current and potential ink jet printing system developers, integrators and users to obtain detailed technical information and establish professional working relationships with ink jet printing technology providers.

The Industrial Ink Jet Technology Showcase 2015 will provide:

- **3 Keynote presentations** by acknowledged experts
- **Exhibits** by key ink jet printing technology suppliers
- **Technology supplier presentations** highlighting their technology's capabilities, applications & advantages
- **4 Ink Jet Tech Talk** tutorials by industry experts
- **InPrint Industrial Print Forum** hosted by Marcus Timson & Frazer Chesterman - overviews, success stories & requirements of the fast-growing digital print sector
- **Course proceedings** containing technology suppliers presentation notes
- **IT Strategies report** containing market size and forecast information for the printer and supplies market worldwide
- **Networking opportunities** with all categories of ink jet printing professionals
- **"Field Trip"** visit to the **adphos** manufacturing plant, followed by dinner at a brewery

Participation at IMI Europe's Industrial Ink Jet Technology Showcase 2015 could well be the most productive two days ever in your efforts to utilise ink jet printing technology in your company's future. **Register now!**

EVENT VENUE

angelo Hotel Munich Westpark, Munich, Germany

The Industrial Ink Jet Technology Showcase 2015 and Ink Jet Summer School 2015 are being held at the angelo Hotel Munich Westpark, Munich, Germany.



Opened in 2013, the angelo Hotel Munich Westpark is the newest of the seven angelo design hotels worldwide. This modern and vibrant 4 star hotel has 185 rooms and 22 suites all designed with black, coral red, yellow and white interior. A cosy and comfortable atmosphere is guaranteed with fully equipped bathrooms, free WiFi and amenities such as: tea and coffee making facilities, bathroom floor heating, climate control, flat-Screen TV and Satellite TV. A fitness and wellness area is equipped with high-tech fitness machines and a sauna.

The hotel provides underground parking with 70 parking spaces for €15 per car per night, or there is free parking in the surrounding streets.

The angelo Hotel Munich Westpark is a 3 minute walk from Harras U-Bahn and S-Bahn stations. The line S7 (direction Wolfratshausen) goes directly from the main station to Harras without any change and is approximately 10 minutes.

Special room rates

€149 single occupancy Twin Superior 22, 23 June
€165 single occupancy Twin Superior 24, 25 June

Room rates are per room, per night (inclusive of 7% VAT), include full buffet breakfast (including 19% VAT), free Wi-Fi throughout the hotel and meeting rooms, and free access to the fitness and wellness area.

To book your accommodation please use our downloadable PDF form on our [website](#), which you can save, fill in and then fax or email directly to the hotel. Alternately please telephone the hotel and mention you are a delegate at the IMI Europe event to receive our special rate. Cancellations should be made 28 days prior to arrival.

angelo Hotel Munich Westpark

Albert-Rosshaupter-Str. 45
81369 Munich, Germany
Tel: +49 89 411 113 552
Fax: +49 89 411 113 529
Email: convention@angelo-munich.com
Web: www.vi-hotels.com/angelo-munich

INK JET TECHNOLOGY SHOWCASE 2015 MEDIA PARTNERS



Graphic Display World is the UK's coolest website providing punchy and concise up-to-the-minute news, views and industry opinions covering the world of digital printing.
www.graphicdisplayworld.com



IndPrint looks at the innovative and exciting technology that continues to grow and becomes stronger day by day. It looks closely at the processes to print on speciality substrates such as wood, glass, plastic, vinyl, metal and more. It even delves into the unknown for many with in-depth case studies and white papers on augmented reality, 3D printing and electronic printing. The industrial printing market is one that is booming, and more and more companies are looking to it to expand their portfolios and revenue channels. With the magazine we want to show how exciting industrial printing really can be and the potential it holds!
www.earthisland.co.uk



Large Format is a leading magazine for large-screen printing, sign making and presentation on the German market.

www.largeformat.de



PrintInnovation.de, the e-zine of LARGE FORMAT, is the new online platform focusing on industrial print. On a daily basis PrintInnovation.de informs about innovations, applications and products in the field of decorative and functional printing.

www.printinnovation.de



P4 Inkjet Magazine is the first online printing magazine of Turkey. It focuses on 4 printing areas: textile printing, industrial printing, 3D printing and printable electronics.

www.inkjetmagazine.com



Founded in 2010, Output is a business intelligence source for the print, digital, design, manufacturing and emerging technology sectors. With a mix of breaking news, detailed analysis and extensive feature and video content, Output ties together the disparate elements of the visual communications world and identifies the trends, technologies and ideas that make the industry tick.

www.outputmagazine.com



The worldwide Photo Imaging News team, based in Bonita Springs, Florida, USA, publishes PDF international industry periodicals in Chinese and English as well as an Excel-based statistical Global Syndicated Market Forecasting programme covering picture-taking and picture-making from 2000 through 2016 in 30 regions, sub-regions and countries around the world. In addition the team, with representatives/offices in China, India, Japan and the UK, provides custom global market reports and consulting services.

<http://photo-news.com>

Ink Jet Technology Showcase 2015

Wednesday June 24, 2015

08:00 - 09:00 REGISTRATION OPENS

09:00 SUPPLIER EXHIBITS OPEN

INPRINT INDUSTRIAL PRINT FORUM

Forum Sponsor



09:00 INTRODUCTION

SESSION 1 - PACKAGING, BRAND & RETAIL

Hosted by Marcus Timson, Director & Co-Founder, FM Brooks - InPrint Show, Leatherhead, UK

Speakers

Steve Lister, Charterhouse
Paul Jenkins, ThePackHub
Simon Edwards, Tonejet

SESSION 2 - DESIGN & DÉCOR

Hosted by Frazer Chesterman, Director & Co-Founder, FM Brooks - InPrint Show, Leatherhead, UK

Speakers

Markus Benesch, Markus Benesch Creates
Giorgio Macor, Kuei
Frank Seemann, Erfurt & Sohn

SESSION 3 - FUTURE TECHNOLOGY

Hosted by Dr Tim Phillips, Marketing & Business Development Manager, Xennia Technology, Letchworth, UK

Speakers

Dr Patrick Smith, University of Sheffield
Prof Dr-Ing Ferdinand Trier
Mark Ritchie, Xaar

13:00 LUNCH

Lunch Sponsor
Diamond Dispersions



IMI INDUSTRIAL INK JET TECHNOLOGY SHOWCASE
EUROPE

14:00 - 14:45 KEYNOTE PRESENTATION

INDUSTRIAL INKJET: HIGH AMBITION TAKES ON THE CHALLENGE

Mark Hanley, President, IT Strategies, Hanover, Massachusetts, USA

- Industrial markets like packaging ARE a big challenge
- But textiles, ceramics and other markets inspire confidence
- Resource and support issues for the smaller vendor
- An epidemic of creativity in Europe



15:00 - 17:30 TECHNOLOGY SUPPLIER PRESENTATIONS

15 minute presentations from the key suppliers in the ink jet industry

TECH TALKS

17:30

HOW TO QUALIFY INKS FOR INKJET COST EFFECTIVELY?

Thomas Gerhardt, ToJET GmbH, Berlin, Germany

18:00

DISPERSION TECHNOLOGY FOR PIGMENT BASED INK JET INKS

Dr Alan Hudd, Director, Alchemie Technology, Cambridge, UK

18:30 - 20:00 RECEPTION IN EXHIBIT AREA

Thursday June 25, 2015

09:00 SUPPLIER EXHIBITS OPEN

TECH TALKS

09:00

INK TESTING FOR INDUSTRIAL INK JET PRINTHEADS

Dr Tim Phillips, Marketing and Business Development Manager, Xennia Technology, Letchworth, UK

09:30

HOW PRINT QUALITY AND PERFORMANCE IS INFLUENCED BY INKJET WETTING TO FIXATION CONFIGURATIONS IN DIGITAL PRESSES

Dr Kai K O Bär, adphos Digital Printing GmbH, Bruckmühl, Germany

10:00 - 13:00 TECHNOLOGY SUPPLIER PRESENTATIONS

15 minute presentations from the key suppliers in the ink jet industry

13:00 LUNCH

14:00 - 14:45 KEYNOTE PRESENTATION

IS DIGITAL PRODUCT DECORATION ABOUT TO GO MAINSTREAM?

Jason Oliver, Senior VP Digital, Heidelberger Druckmaschinen, Heidelberg, Germany

- What is 4D Printing?
- Technologies involved
- Markets - where it fits
- Challenges and opportunities
- Consumer versus industrial product decoration
- How it fits in Heidelberg's digital strategy



14:45 - 16:15 TECHNOLOGY SUPPLIER PRESENTATIONS

15 minute presentations from the key suppliers in the ink jet industry

16:15 - 17:00 KEYNOTE PRESENTATION

3D PRINTING: NEW OPPORTUNITIES FOR INK JET PRINTING IN MANUFACTURING

Dr Ingo Ederer, CEO, Voxeljet AG, Friedberg, Germany

- Great promise of 3D printing technologies is more justified for industrial production than home use
- Ink-jet based powder binding technology within 3D printing offers outstanding advantages:
 - High productivity with large build envelopes
 - Continuous operation and inline production capabilities
- Current system concepts and applications
- Insight into future developments



17:30 - 23:30 "FIELD TRIP"



- 17:30 Bus departs angelo Hotel Munich Westpark
- 18:30 Arrive **adphoS** Headquarters, welcome drink
Tour of manufacturing plant, applications lab and testing facility
- 19:30 Departure
- 19:45 Arrival at **Maxlrainer-Bräustüberl**, a local brewery, for a Bavarian evening!
- 23:30 Arrive back at conference hotel

InPrint Industrial Print Forum

Wednesday 24 June, 2015



angelo Hotel Munich Westpark, Munich, Germany

Overviews, success stories and requirements of the fast-growing industrial digital print sector - hosted by Frazer Chesterman and Marcus Timson, organisers of the InPrint trade show and Dr Tim Phillips, Marketing & Business Development Manager of Xennia Technology.

Expert speakers will be giving updates and insights on what industrial print is doing and where it is going. A great introduction for the Industrial Ink Jet Technology Showcase, and a preview of what's to come at the InPrint Show taking place in Munich, 10-12 November 2015.

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Wednesday June 24, 2015

09:00 - 13:00

SESSION 1 - PACKAGING, BRAND & RETAIL

Hosted by Marcus Timson, Director & Co-Founder, FM Brooks - InPrint Show, Leatherhead, UK



BRINGING DIGITAL PRINT TO LIFE FOR BRANDS & RETAILERS

Steve Lister, Print Sustainability Director, Charterhouse, Hatfield, UK

Charterhouse specialises in seeking out creative and innovative ways to use print in packaging, retail and POP, with clients including BMW, Coca Cola, Heineken and Unilever.



WHEN WILL PACKAGING EMBRACE THE DIGITAL REVOLUTION?

Paul Jenkins, Founder, ThePackHub, Banbury, UK

ThePackHub is a packaging innovation consultancy that specialises in bringing together experience and passion to deliver packaging solutions to brand owners, retailers and packaging suppliers.



THE RISE AND RISE OF CRAFT DRINKS: SOME CHALLENGES, MASSIVE OPPORTUNITIES

Simon Edwards, VP - Sales & Marketing, Tonejet, Melbourn, UK

Key parts of the packaging supply chain are holding back their true potential, the move to beverage cans. Simon presents an overview of the craft drink market trends and discusses the key challenges and solutions to enable this industry to reach its true potential.

SESSION 2 - DESIGN & DÉCOR

Hosted by Frazer Chesterman, Director & Co-Founder, FM Brooks - InPrint Show, Leatherhead, UK



IDENTIFYING CREATIVE APPLICATIONS - ENDLESS POSSIBILITIES OF DIGITAL PRINT FOR INTERIORS

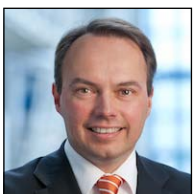
Markus Benesch, Markus Benesch Creates, Munich

Markus Benesch Creates is a multi-disciplinary design studio creating surfaces, products, interiors and smiling faces since 1988. Clients include Benetton, Campari, Ferrero, Hewlett-Packard, Mövenpick, Paul Smith and Samsung.



CREATING AMAZING RESULTS FOR INTERIORS THAT WILL EXCITE ALL YOUR SENSES WITH DIGITAL SPECIALITY INKS

Giorgio Macor, Founder & CTO, Kuei, Coseano, Italy



HOW TO DIGITALLY PRINT ONTO WALLPAPER

Frank Seeman, Division Manager - Digital Print & Direct Business, Erfurt & Sohn KG, Wuppertal, Germany
Frank is the CEO of JuicyWalls and will show the audience the omnichannel strategy of Erfurt & Sohn. In addition he will explain why the digital interior design business strengthens the brand value of Erfurt's core businesses.

SESSION 3 - FUTURE TECHNOLOGY

Hosted by Dr Tim Phillips, Marketing & Business Development Manager, Xennia Technology, Letchworth, UK



PUSHING THE BOUNDARIES OF INK JET APPLICATIONS

Dr Patrick Smith, Lecturer, Laboratory of Applied Inkjet Printing, Department of Mechanical Engineering, University of Sheffield, UK

Patrick offers his view of the degree of possibilities for ink jet, examples include synthesising silk for medical applications, developing tougher carbon composites for use in aircraft manufacturing and printing conductive features onto metal component parts of vehicle engines.



THE CHALLENGES OF DIGITALLY PRINTING ON GLASS - CREATING THE PERFECT 'TRANSPARENT IMAGE'

Prof. Dr-Ing Ferdinand Trier

Prof. Dr.-Ing. Ferdinand Trier, previously of University of Munich and BMW will discuss can it be done digitally and can it be applied to the manufacturing world?



FUTURE TECHNOLOGICAL DEVELOPMENTS FOR INKJET AND ADVANCED MANUFACTURING TECHNOLOGY

Mark Ritchie, Product Manager, Xaar, Cambridge, UK

INPRINT

INDUSTRIAL PRINT SHOW
MUNICH 10-12 NOVEMBER 2015

InPrint 2015 is the exhibition for Industrial Print Technology. It is designed to connect state of the art industrial print technology with industrial printing professionals. Taking place in Munich, 10-12 November 2015 alongside Productronica, InPrint will feature 150 exhibiting companies showing the latest specialty, screen, digital, inkjet and 3D printing technologies for industrial print production.

Visitors to InPrint 2014 (8-10 April 2014 in Hannover) attended from a broad range of industries including: ceramics, textile, packaging, aeronautical, automotive, electronics, engineering, sports-wear, pharmaceutical and printing. Exhibitor feedback from InPrint 2014 confirmed that the visitor quality exceeded expectations from all exhibitors whether they were showing industrial screen, 3D or inkjet printing technologies.

*InPrint Show organisers
Marcus Timson & Frazer Chesterman*

www.inprintlive.com

Ink Jet Tech Talks

Helping you develop better products



HOW TO QUALIFY INKS FOR INKJET COST EFFECTIVELY?

Thomas Gerhardt, Founder, ToJET, Berlin, Germany

- Having an idea, but how to start
- Basic measurements, what is needed
- Dynamic or static
- How to test the crusting behaviour without damaging a printhead
- Ink stability
- Material compatibility
- Print quality tests



Thomas Gerhardt founded ToJET GmbH in 2002 in Berlin to sell ink jet printheads (IJT-64ID2) for glass ceramics manufacturer IJT based in California (USA). From 2004, ToJET GmbH worked mainly for Francotyp-Postalia GmbH in the areas of: Ink Development and quality control, development of recycling processes, analysis of material problems, conversion of an ink degassing and bottling plant, and development of functional water-based fluids. In 2012, ToJET GmbH took over a small portion of products from the former production site of Francotyp-Potsalia. www.tojet.de

DISPERSION TECHNOLOGY FOR PIGMENT BASED INKJET INKS

Dr Alan Hudd, Director, Alchemie Technology, Cambridge, UK

- History of pigmented dispersions
- Stabilisation theory
- Agglomeration and flocculation
- Materials that make the difference
- Processes and manufacturing
- Challenges vs Mother Nature



Dr. Hudd is Director and Founder of Alchemie Technology Ltd. Alchemie is an independent contract development and consultancy company to the industrial ink jet industry. Alan was a founder of Xennia Technology and Managing Director from 1996 to 2012. During this period Alan built Xennia to become a world leading ink jet developer and solutions provider to industrial ink jet markets. In 1987, Alan joined Domino Printing Sciences and spent eight years as the Fluids Technology Manager and is credited with a number of patents and significant innovations within the industrial ink jet industry. www.alchemietechnology.com

INK TESTING FOR INDUSTRIAL INK JET PRINTHEADS

Dr Tim Phillips, Marketing & Business Development Manager, Xennia Technology, Letchworth, UK

- Initial ink trials – what to look for & how to select the best ink
- Ink testing methodologies
- Typical test equipment & set-up
- Characterisation
- Print quality analysis
- It doesn't jet – is it the ink or printhead?
- Differences between thermal & piezo ink testing



Tim is Marketing & Business Development Manager at Xennia, the leading one stop ink jet solutions house. This has required a strong working knowledge of the latest ink jet technology, and has brought him into contact with a wide range of clients working at the leading edge of new applications. These include textiles, printed electronics, deposition of functional materials, and bio and medical applications as well as the latest graphics applications. Tim graduated from the University of Cambridge in 1991 with an MA Honours degree in Natural Sciences, and completed his PhD in liquid crystal physics and chemistry at the University of Bristol in 1994. www.xennia.com

HOW PRINT QUALITY AND PERFORMANCE IS INFLUENCED BY INKJET WETTING TO FIXATION CONFIGURATIONS IN DIGITAL PRESSES

Dr Kai K. O. Bär, adphos Digital Printing GmbH, Bruckmühl, Germany

- Principal process analysis of ink wetting, setting, drying & fixation
- Influences & interactions from combination of ink & substrate properties
- Analysis of applied drying technologies & their configurations in today's digital presses
- Commercial case studies comparison on achievable print quality and/or printing performance for different applicable drying technologies



Since July 2009 Dr. Bär is the Managing Director and President of the adphos Innovative Technologies GmbH, adphos Thermal Processing GmbH and adphos Digital Printing GmbH. Dr. Bär was one of the founders of the IndustrieSerVis GmbH (Rechtsvorgänger of the AdPhos AG) where he practiced as Managing Partner. He was the leader of the business segment "High Temperature Technology and Installations" at IABG, Ottobrunn from June 1993 till September 1996 and was responsible for the Technology-Program "HERMES-Heatstructure-Tests". From August 1989 until May 1990 he was working as an academic staff member at IABG, Ottobrunn, Aachen. www.adphos.de

Event Partner



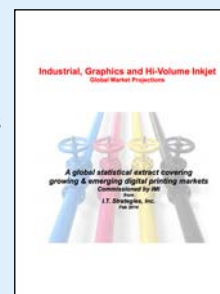
I.T. Strategies, Inc. is an established research consultancy dedicated to serving companies in digital industrial printing markets worldwide. The company delivers intelligent data, analysis, strategy, and implementation practices to vendors in the digital printing industry around the world. From offices in Boston and Tokyo, I.T. Strategies conducts and delivers research data, offers interpretation and advice, identifies specific opportunities, and helps organizations implement these strategies to achieve effective solutions. We are a custom consultancy with an employee count under 25. I.T. Strategies was built on a vision of Digital printing's long-term dominance of document and industrial print markets – a vision in process of realization.

www.it-strategies.com

INDUSTRIAL, GRAPHICS & HI-VOLUME INKJET GLOBAL MARKET PROJECTIONS REPORT

IMI Europe is pleased to announce that it has commissioned I.T. Strategies, Inc. of Hanover, Massachusetts to prepare a study report entitled "Industrial, Graphics and Hi-Volume Inkjet Global Market Projections" for distribution to all registrants to IMI Europe's programmes.

This exclusive market report is updated at least twice annually and provides an ongoing source of market information based on a consistent methodology and reporting structure. The report is generated from IT Strategies' worldwide computer printer industry model.



Ink Jet Technology Showcase 2015 Exhibitor Directory

Wednesday 24 - Thursday 25 June, 2015

angelo Hotel Munich Westpark, Munich, Germany

Only
€ 595!



This directory of Ink Jet Industry Suppliers is in alphabetical order. At the **Ink Jet Technology Showcase 2015** the suppliers will present in order of sign-up for the event. The final schedule will be published on the IMI Europe web site at www.imieurope.com with copies available at registration.

adphos

adphos Digital Printing GmbH; With our comprehensive knowledge and application experience of radiation technology, we have the capability to revolutionise technical processes in entire sectors of many industries. adphos, using its adphosNIR® "Accelerated Drying Technology", is able to offer standard and customised solutions to other manufacturers and to end users for integration into their process equipment to perform more efficient drying, curing or heating processes, at higher throughput speeds.

Dr Kai Baer
Managing Director
Tel: +49 8061 3950
info@adphos.de
www.adphos.de

adphos Digital Printing GmbH
Bruckmühler Str. 27
D-83052 Bruckmühl
Germany

AGFA

Agfa Graphics designs, develops, manufactures and supplies ink jet inks & fluids for wide format and industrial single pass printing systems for a broad range of applications including packaging, label printing, decoration, marking & coding and product printing.

Contact: Dr Marc Graindourze
Marketing Manager Industrial Inks
Tel: +32 3444 3871
marc.graindourze@agfa.com
www.agfa.com

Agfa Graphics NV
Septestraat 27
B-2640 Mortsel
Belgium

Join us Wednesday evening for beers, wines, cocktails and hors d'oeuvres at our all inclusive reception. This is time to visit the suppliers exhibits, meet with the speakers, and network with the other Industrial Ink Jet Technology 2015 Showcase delegates!



AMICA SYSTEMS

Amica Systems is a leading developer & manufacturer of industrial ink jet solutions. Amica's unique and modular solutions deliver unparalleled value and opportunities for OEMs to build wide-format graphics printers, flat-bed UV inkjet printers, and single-pass inkjet head array digital presses for a wide variety of industrial applications. Amica Systems manufacture large-format inkjet printer and digital inkjet press for OEMs.

Patrick Citroen
Managing Director
Tel: +31 36 2100 166
info@amicasystems.eu
www.amicasystems.com

Amica Systems Europe B.V.
Camerastraat 6
1322BC Almere
The Netherlands



Move with Ardeje within the heart of Industry 4.0. Partner of demanding Industrials in the feasibility phase of their project, ARDEJE provides proven printing solutions resulting in in-house smart digital printers ready to equip robotized and full automated production line.

Pascal Lenormand
Sales & Marketing Manager
Tel: +33 475 782 663
lenormand@ardeje.com
www.ardeje.com

Ardeje
4 Rue Georges Auric
26000 Valence
France

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Collins Inkjet is a technical leader in providing standard and custom formulations of water-based, solvent-based, oil-based, and energy-curable inks to fulfill customers' needs. Collins manufactures and sells millions of litres of inks worldwide and has partnerships with most major printhead manufacturers.

Simone Wieczorek
Managing Director
Tel: +1 513 948 9000
info@collinsinkjet.com
www.collinsinkjet.com

Collins Inkjet
1201 Edison Drive
Cincinnati
Ohio 45216
USA

ColorGATE

Innovative Solutions

Committed to Color

Since 1997 ColorGATE has been successful developing software solutions, RIP Software and printer driver technology for the Commercial- and Industrial Printing. Our software solutions are used by thousands of end users all around the world. We are actively engaged in the Industrial Printing market since 10 years.

Thomas Kirschner
CEO
Tel: +49 511 942 930
contact@colorgate.com
www.colorgate.com

ColorGATE Digital Output Solutions GmbH
Grosse Dueselstr. 1
Hannover
30171 Germany

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Mississauga
Ontario L5N6H7
Canada

FUJIFILM

Value from Innovation



FUJIFILM Dimatix, Inc., is a wholly owned subsidiary of FUJIFILM Corporation and the world's leading supplier of drop on-demand inkjet printheads for industrial applications, driving a revolution in inkjet technology to support a new generation of products for printing, industrial product decoration and materials deposition.

Howard Baldwin
VP, Sales & Marketing
Tel: +1 630 460 5922
hbaldwin@fujifilm.com
www.fujifilmusa.com

Fujifilm Dimatix
109 Etna Road
Lebanon
NH 03766
USA



FUJIFILM

FUJIFILM Imaging Colorants

FUJIFILM Imaging Colorants (FFIC) is a global leader in the design and manufacture of high performance aqueous colorants and inks for the inkjet market. With an enviable track record in product innovation, and extensive manufacturing capabilities, FFIC brings true innovation and manufacturing scale to ink jet material supply.

US Contact: John Spych
Business Manager
Tel: +1 302 477 8023
John.Spych@fujifilmic.com
EU Contact: Phil Double
Techno-Commercial Manager
Tel: +44 161 721 1761
Phil.double@fujifilmic.com
www.fujifilmic.com

FUJIFILM Imaging Colorants Inc.
233 Cherry Lane
Newcastle
DE 19720
USA

FUJIFILM

FUJIFILM Speciality Ink Systems Limited

Fujifilm Speciality Ink Systems specialises in the development and commercialisation of UV and UV hybrid inkjet technology. It manufactures a range of unique, high performance inks for the wide format, industrial and package printing markets.

Jon Harper-Smith
Marketing Manager - Industrial
Tel: +44 7831 494799
jon.Harper-Smith@fujifilmsis.com
www.fujifilm.eu/fsis

FUJIFILM Speciality Ink Systems Ltd
Pysons Road
Broadstairs
Kent CT10 2LE
UK



GLOBAL INKJET SYSTEMS
CONTROL | PERFORMANCE | INNOVATION

Print Better: Print Faster: Print Smarter. GIS provides industry leading software and electronics to system builders. Any number of printheads: any number of inks: ultra-high data handling capability: high print speeds: production proven reliability: innovative software; ink system components – GIS technology enables system builders to develop ground-breaking products for demanding production environments.

Debbie Thorp
Business Development Director
Tel: +44 1223 733 733
debbie.thorp@globalinkjetsystems.com
www.globalinkjetsystems.com

Global Inkjet Systems Ltd
The Jeffreys Building
Cowley Road
Cambridge CB4 0DS
UK

Full details & registration
www.imieurope.com

imageXpert

ImageXpert Inc., the world leader in vision-based inspection systems and solutions for the inkjet market, offers systems for measurement of drops-in-flight, wetting visualization, jet sustainability/life testing and print quality assessment.

Yair Kipman
President
Tel: +1 603 598 2500
info@imagexpert.com
www.imagexpert.com
www.jetxpert.com

ImageXpert Inc.
460 Amherst Street
Nashua
NH 03063
USA

KYOCERA

Kyocera offers a wide variety of inkjet printhead solutions: from the world's fastest 300dpi printhead able to provide simultaneous two-color printing with only one head, up to the world's fastest 1200 x 1200 dpi KJ4B printhead. The company's product line also includes the KJ4A printhead for UV-curable ink, and the KJ4B for water-based ink - both world record holders in terms of speed with its 600 dpi 4-inch wide printhead.

Kazumi Honda
European Product Line Manager
Tel: +49 711 9393 4837
Kazumi.honda@kyocera.de
<http://global.kyocera.com/prdct/printing-devices/inkjet-printheads>

Kyocera Fineceramics GmbH
Fritz Mueller Strasse 27
73730 Esslingen
Germany

pivotal resources

We operate at the forefront of ink jet technology, working for vendors and users worldwide. We assist in defining and reviewing product strategies, support the development of new products and processes, and help our clients gain market position. Our clients include many familiar names. Among our services and activities are *Directions*, our ink jet patent review service and the Ink Jet Academy course.

Mike Willis
Managing Director
Tel: +44 1223 235900
mike@pivotal.co.uk
www.pivotal.co.uk

Pivotal Resources Ltd
11 Glebe Way
Histon
Cambridge CB24 9HJ
UK

RICOH

Ricoh provides industrial strength, stainless steel ink jet print heads to OEMs with demanding applications in wide format graphics, 3D modelling, ceramics and specialty fluid dispensing.

Graham Kennedy
Business Development Manager
Tel: +44 207 465 1208
graham.kennedy@ricoh-europe.co.uk
www.ricoh-europe.com

Ricoh Europe PLC
20 Triton Street
London NW1 3BF
UK

Industrial Ink Jet Technology Showcase 2015

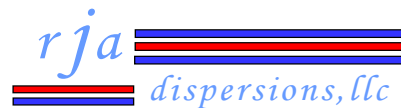
4 TECH TALK TUTORIALS

3 KEYNOTES

15 HOURS of PRESENTATIONS

6 HOURS of NETWORKING

Downloadable brochure,
hotel booking form
and on-line registration at
www.imieurope.com



RJA Dispersions is a rapidly growing Nano-materials dispersion company founded in 2002. The founders have leveraged their years of experience in digital imaging at major companies and developed a unique business focused on making excellent dispersions for ink jet inks. RJA works with their customers to solve difficult problems, and wins their business based on the relationships established.

Joseph Ward
VP Marketing & Sales
Tel: +1 715 808 0172
jeward@rjadispersions.com
www.rjadispersions.com

RJA Dispersions llc
2745 Harvey St
Hudson
WI 54016
USA



TTP Meteor is the leading independent specialist in industrial inkjet printhead driving solutions. Working closely with all the major industrial inkjet printhead manufacturers, TTP Meteor supplies production ready electronics and software to printer OEMs and print system integrators world-wide. Headquartered near Cambridge, UK, TTP Meteor is a part of the TTP Group, an assortment of companies employing more than 300 scientific, engineering and commercial staff.

Clive Ayling
General Manager
Tel: +44 1763 262626
Clive.Ayling@ttp.com
www.ttpMeteor.com

TTP Meteor Ltd
Melbourn Science Park
Melbourn Royston
Herts SG8 6EE
UK

wifag//polytype

brilliance on top

Wifag-Polytype Technologies is your interdisciplinary R&D partner in all industrial inkjet projects. We offer a broad range of products like printhead electronics or ink supply systems as well as engineering and consulting services, among them inkjet process, web handling, custom software development and mechanical engineering.

Florian Faessler
Product Manager Digital
Tel: +41 26 426 16 37
Florian.Faessler@wifag-polytype.com
www.wifag-polytype.com

WIFAG-Polytype Technologies AG
26 Route de la Glâne
P.O. Box 1184
CH-1701 Fribourg
Switzerland



Xennia Technology provides state of the art industrial inkjet products in the form of systems, modules and inks, bringing the benefits of inkjet technology to original equipment manufacturers (OEM's) and machine partners in ceramics, laminates and wall coverings markets.

Tim Phillips
Marketing & Business Dev. Manager
Tel: +44 1462 705220
tphillips@xennia.com
www.xennia.com

Xennia Technology
Monroe House
Works Road Letchworth
Herts SG6 1LN
UK

Ink Jet Academy

Theory of Ink Jet Technology

angelo Hotel Munich Westpark, Munich, Germany

Monday 22 - Tuesday 23 June, 2015

pivotal
resources

Alchemie

THE THEORY OF INK JET TECHNOLOGY

This one and one half day course has been attended by 3,000 in the past 16 years. Completely revised, this course is aimed at people in the industry who would like an up to date overview of the ink jet technology used today.

Understanding the basics is essential to any industry's development. The Ink Jet Academy covers the basic theory behind the many types of ink jet technology used today and aims to give your understanding of the industry an expert start.

On the course you'll learn how printheads work, what materials are used in their fabrication and the theory of their operation. You'll also find out about inks and media, how they are formulated and used, about supply and support systems.

The course assumes a basic scientific knowledge and is designed to provide useful background information for anyone entering the ink jet industry, seeking an update on today's technology or looking for further fields of development.

Course leaders

Mike Willis, Managing Director
Pivotal Resources

Cambridge, UK



Mr. Willis founded Pivotal Resources, a consultancy in the digital printing industry, in 1995. He has experience in a wide range of technologies and markets including drop-on-demand and continuous ink jet printing, electro-photographic technology, greyscale and colour reproduction methods and light sensitive materials.

Mr. Willis was a founder member of Xaar - a spin-off company from Cambridge Consultants where Mr. Willis spent ten years working in a number of roles, culminating as Group Leader of Non-Impact Printing.

Dr. Alan L Hudd, Director & Founder
Alchemie Technology

Letchworth, UK



Dr Hudd is Director and Founder of Alchemie Technology Ltd. Alchemie is an independent contract development and consultancy company to the industrial ink jet industry. A particular

research interest is the development of how inkjet can play a role in providing sustainable energy solutions. Alan Hudd was a founder of Xennia Technology and Managing Director from 1996 to 2012. During this period Alan built Xennia to become a world leading inkjet developer and solutions provider to industrial inkjet markets. In 1987, Alan joined Domino Printing Sciences and spent eight years as the Fluids Technology Manager.



Monday June 22, 2015

12:00 - 14:00 Registration
14:00 Course begins

INTRODUCTION TO INK JET

- Course overview
- Types of ink jet technology
- Drop on demand technologies
- Thermal & piezo ink jet
- Evolution of ink jet markets
- Ink jet patents

INK JET INK TECHNOLOGIES

- Ink types: aqueous, solvent, oil, phase change & UV cure
- Dyes & pigments
- Ink jet ink formulations
- Ink jet ink design
- Understanding the ink jet printing process
- Drop formation
- Properties influencing piezo ink jet ink performance
- Testing an ink for reliability: methods & characterisation

DOD PRINthead TECHNOLOGIES

- Thermal ink jet
- Piezo ink jet
 - Piston mode designs
 - Roof mode actuators
 - Stacked piezo technology
 - Shear mode designs
 - Silicon printheads

INK JET INK MATERIALS AND DISPERSIONS

- Range of materials and ink chemistries
- Evolution of inkjet inks
- Evolution of dyes
- Pigments and dispersion technology
- Dispersion theory
- Polymers and additives
- Processes and manufacturing

18:00 Session closes

18:00 - 19:00 Reception
Join us and enjoy local wines and beers, canapés, and of course good company!

Tuesday June 23, 2015

09:00 Course begins

PRINthead OPERATIONAL ISSUES

- Drop placement accuracy
- Drop ejection frequency
- Crosstalk
- Reliability
- Life issues

UV INK CHEMISTRY AND CURING

- UV curable materials
- Monomers
- Oligomers
- Photoinitiators
- UV curing
- Print quality issues with UV inks

PRINT & IMAGE QUALITY

- Factors affecting print quality
- Printhead-ink-substrate
- Greyscale methods

13:00 - 14:00 Lunch

SYSTEM DESIGN ISSUES

- Industrial ink supplies
- Bubble control
- Nozzle maintenance

EMERGING TECHNOLOGIES

- Kodak Stream
- Memjet
- HP PageWide technology
- Landa Nanography
- Lead-free piezo
- Speed & resolution trends

INK JET APPLICATIONS

- Coding, marking, mailing, addressing
- Wide format graphics
- Industrial decoration – décor & laminates
- Ceramic tiles
- Textiles
- Commercial printing
- Labels & packaging
- Printed electronics, bio-medical & 3D printing

17:00 Course closes

Ink Jet Ink Manufacturing

Manufacturing ink jet inks for performance & reliability

angelo Hotel Munich Westpark, Munich, Germany

Monday 22 - Tuesday 23 June, 2015



COURSE PRESENTERS

Dr Simon Daplyn, Sales Manager - Inks & Consumables

Xennia Technology Limited
Letchworth, Hertfordshire, UK



Dr Simon Daplyn joined Xennia in 2008 and is the Sales Manager for Inks and Consumables, responsible for product sales across the Xennia portfolio of inks. As part of the team that commercialised many products for textiles, Simon

has a particular focus on textile solutions for decoration and functional finishing. Previously Simon was involved in the R&D group overseeing developments of a number of industrial ink jet solutions.

Dr Tim Phillips, Marketing & Business Development Manager

Xennia Technology Limited
Letchworth, Hertfordshire, UK



Tim is Marketing & Business Development Manager at Xennia. This has brought him into contact with a wide range of clients working at the leading edge of new applications. These include textiles, printed electronics, deposition of functional materials, and bio and medical applications as well as the latest graphics applications. Tim graduated from the University of Cambridge in 1991 with an MA Honours degree in Natural Sciences, and completed his PhD in liquid crystal physics and chemistry at the University of Bristol in 1994. He recently completed an Executive MBA at the University of Warwick.

Joseph Ward, VP Marketing & Sales
RJA Dispersions llc



Dr. Ward is one of the owners of RJA Dispersions. He has a unique blend of product and business development experience. When he was at 3M, he led product development for a succession of digital imaging businesses. One, (3M ScotchPrint® System)

grew from startup to over \$100 MM in 5 years. In 2003, he joined an early stage Nano-materials Company as Product Development VP. Since 2006 he has served as VP of Marketing for RJA.



COURSE FOCUS

This course provides a good background of the types of ink jet inks and materials that are used in today's ink jet printers. But how are inks actually made? Is pigmented ink really more expensive to make than dye-based ink? What is involved in manufacturing advanced ink jet inks?

Designed for those wishing to develop, source, or commission the development and manufacture of ink jet inks, the course will help you to understand the issues of development and testing, scale-up for manufacture and the manufacturing processes themselves. As well as being of interest to ink jet technologists, managers will benefit from an understanding of the ink jet ink manufacturing process to set realistic project and revenue plans and to decide whether to manufacture in-house or externally source ink.

Monday 22 June, 2015

12:00 - 14:00 Registration
14:00 Course begins

CRITICAL ASPECTS OF INK JET SYSTEMS DESIGN

- Printheads
- Ink
- Ink systems
- Motion control

INK FORMULATION CONSIDERATIONS FOR MANUFACTURING

- Ink jet ink ingredients
- Ink jet ink design & requirements

CREATING ROBUST MATERIAL SPECIFICATIONS

- Dyes
- Pigments
- Polymers
- UV-cure materials
- Functional materials
- Solvents
- Additives

18:00 Session closes

18:00 - 19:00 Reception
Join us and enjoy local wines and beers, canapés, and of course good company!

Tuesday 23 June, 2015

09:00 Course begins

TESTING PROTOCOLS & VALIDATION FOR MANUFACTURING

- Optimisation & testing
- Test schedules
- Protocols
- Testing for reliability & robustness
- Relationship with printer
 - Printhead
 - Colour Tables
 - Ink Management System

QUALITY CONTROL PROCESSES

- Quality control processes
 - QC laboratory infrastructure
 - QC laboratory equipment
- Scale up for manufacture
- Lab processes
- Pilot plant trials
- SPC parameters

INK PLANT REQUIREMENTS

- Layout
- Equipment selection
- Manufacturing practices
- Quality standards

13:00 - 14:00 Lunch

MANUFACTURING PROCESSES

- Mixing regimes
 - Water based inks
 - Solvent based inks
 - UV-cure inks
- Milling processes
- Filtration systems
- Degassing
 - Purification
 - Bottling
 - Packaging

COMMERCIAL CONSIDERATIONS

- Markets
- Strategies
- Costs
- Positioning
- Value chain

17:00 Course closes

Jetting Functional Fluids

Rheology, Deposition, Process, Development

angelo Hotel Munich Westpark, Munich, Germany

Monday 22 - Tuesday 23 June, 2015

1.5 day course

COURSE FOCUS

Whether the functional fluids have electronic, pharmaceutical or other important attributes, the challenges of getting them to "jet" with suitable performance and to "functionalise" on the target substrate are often common headaches for the material deposition community.

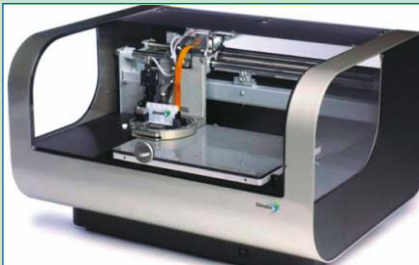
In this course we will focus on the practicalities of ink jet printing of what we may call "challenging fluids". We will consider in detail the basic building blocks of a material deposition ink jet system: the ink jet heads, ink, the motion platform, the substrate and methods available to make working printed structures. In addition we will provide a background on how we can fine-tune inks and their jetting waveforms to improve performance. The course will also provide a background on conventional manufacturing capabilities that must be matched for material deposition by ink jet to move into large scale production environments.



"Neil's course is well thought out and comprehensive. Participants can expect to gain quick, time savings benefits with a shortened learning curve. I strongly urge anyone considering inkjet for materials deposition applications to attend." **Stephanie Scattareggia, Fujifilm Dimatix**

LIVE DEMONSTRATIONS

As part of the course, Neil & Steve will be carrying out demonstrations using a Fujifilm Dimatix DMP - your chance to see this deposition platform in action, including built in drop-watcher.



COURSE PRESENTERS



Printed Electronics Limited, Tamworth, UK



Dr Neil Chilton,
Technical Director



Dr Steve Jones,
Business Development
Director

Monday 22 June, 2015

12:00 - 14:00 Registration
14:00 Course begins

THE BASIC COMPONENTS OF AN INK JET SYSTEM FOR FUNCTIONAL FLUID DEPOSITION

HEADS

- Choice of ink jet heads
- Material compatibility
- Drive electronics and systems
- Selection criteria for ink jet heads

INKS

- Basic tests for potential ink jet inks and re-formulation options
- Jetting methods to evaluate ink performance

INK JET PLATFORM

- Buy or build?
- Fundamental choices when deciding on a system
- Accuracy and compensation methods
- Control software considerations

SUBSTRATE

- Fundamentals of substrates – ink interaction
- Practical substrate characterisation
- How to optimise your patterning
- Surface treatment options

FUNCTIONALISING

- Making the printed fluid into the printed "thing" you need
- Thermal vs photonic methods for nano-metal materials
- UV methods for dielectric type materials

18:00 Session closes
18:00 - 19:00 Reception

Tuesday 23 June, 2015

09:00 Course begins

INK JET IMAGE FUNDAMENTALS

- A primer on printing bitmap images (when you really want a nice vector)
 - What is a bitmap?
 - Encoders and drive systems
 - Resolution and image conversion
 - Dealing with image artefacts
 - Software techniques

INK DELIVERY AND INK MANAGEMENT SYSTEMS

- Filtration, heating/cooling, degassing and ink delivery
- Customised and commercial ink delivery systems

13:00 - 14:00 Lunch

PRACTICAL APPLICATIONS AND CASE STUDIES

- Examples and lessons learnt
- Hands on with ink jet components

MOVING FUNCTIONAL PRINTING TO INDUSTRIAL SCALE

- System considerations, yield requirements and cost modelling

AN OVERVIEW OF MATERIAL DEPOSITION AND PRINTED ELECTRONICS USING INK JET - THINGS THAT CAN AND MAYBE CANNOT BE DONE

17:00 Course closes

Full details & registration
www.imieurope.com

Week at a glance

| | 08:00 | 09:00 | 10:00 | 11:00 | 12:00 | 13:00 | 14:00 | 15:00 | 16:00 | 17:00 | 18:00 | 19:00 | 20:00 |
|------------------------------|--------------|--|-------------------------|-------|-------|--------------|--|------------------------------|-------------------------|---------------------------|--------------------|--|-------|
| Monday June 22 | | | | | | Registration | Ink Jet Academy Course Ink Jet Ink Manufacturing Course Jetting Functional Fluids Course | | | | Reception | | |
| Tuesday June 23 | | Ink Jet Academy Course Ink Jet Ink Manufacturing Course Jetting Functional Fluids Course | | | | Lunch | Ink Jet Academy Course Ink Jet Ink Manufacturing Jetting Functional Fluids | | | | | | |
| Wednesday June 24 | Registration | Ink Jet Technology Suppliers Showcase 2015 | | | | | Lunch | Keynote Mark Hanley | Exhibitor Presentations | | Ink Jet Tech Talks | Reception | |
| | | InPrint Industrial Print Forum | | | | | | | | | | | |
| | | Technology Supplier Exhibits | | | | | | Technology Supplier Exhibits | | | | | |
| Thursday June 25 | | Ink Jet Technology Suppliers Showcase 2015 | | | | | Lunch | Keynote Jason Oliver | Exhibitor Presentations | Keynote Dr Ingo Ederer | | "Field trip" to adphos HQ & Bavarian Evening Return to hotel 23:30 | |
| | | Ink Jet Tech Talks | Exhibitor Presentations | | | | | | | | | | |
| | | Technology Supplier Exhibits | | | | | | | | | | | |

THE INK JET ACADEMY COURSE

- Attendance at all sessions
 - Copy of course slides
 - One lunch
 - One reception
 - Coffee breaks
- Registration fee €995

INK JET INK MANUFACTURING COURSE

- Attendance at all sessions
 - Copy of course slides
 - One lunch
 - One reception
 - Coffee breaks
- Registration fee €995

JETTING FUNCTIONAL FLUIDS COURSE

- Attendance at all sessions
 - Copy of course slides
 - One lunch
 - One reception
 - Coffee breaks
- Registration fee €995

INDUSTRIAL INK JET TECHNOLOGY SHOWCASE 2015

- 4 Ink Jet Tech Talk tutorials
 - 3 Keynote presentations
 - InPrint Industrial Print Forum
 - Conference proceedings
 - Two lunches
 - One reception
 - Coffee breaks
 - Field trip
- Registration fee €595

INK JET INDUSTRY SUPPLIER?

Are you a supplier of products or services to the ink jet industry? Would you like to speak and exhibit at the **Ink Jet Technology Showcase 2015**?

Full details at www.imieurope.com/IJTS15 or contact either Mike Willis mike@imieurope.com or Al Keene al@imiconf.com and we will explain how to join our event.

**Hotel reservations and charges are the responsibility of each registrant - See page 2 for details and our web site for booking details.
Special room rate €149 per night 22 & 23 June & €165 24 & 25 June, breakfast, WiFi, & 7% VAT included, subject to availability.**

MULTIPLE RATES AND DISCOUNTS

Registrants from the same company attending any Summer School Course or Technology Showcase:

- 1st registrant pays full registration rate
- 2nd or additional registrants are entitled to the discount **€80 discount off normal rate**
- Same person attending Summer School course + Industrial Ink Jet Technology Showcase 2015 .. **€80 discount off normal rate**
- Academic rate for Industrial Ink Jet Technology Showcase only **€295**

You can only receive one discount per person. *German VAT at 19% will be added to all registrations.*

BOOKING POLICY

Cancellations will receive a 100% refund of registration fees if made 1 week or more prior to the start of a course or Showcase. After that no refunds will be issued but substitutions may be made at any time - please let us know!

HOW TO REGISTER

Please register on-line via our web site - <http://imieurope.com/IJTS15>

We will check availability and email you a confirmation registration and an invoice with details of how, when and where to pay. Payment can be made in Euro, GBP or US\$ by bank transfer, or you can pay by credit card in Euro.