INDUSTRY DAY

DISRUPTIVE INNOVATION IN MANUFACTURING ENGINEERING TOWARDS THE 4TH INDUSTRIAL REVOLUTION

March 26, 2014 | Stuttgart, Germany
We are pleased to invite you to attend the Industry Day entitled “Disruptive Innovation in Manufacturing Engineering towards the 4th Industrial Revolution”. It takes place on the first day of the 8th International Conference on Digital Enterprise Technology DET 2014. The Conference is organized by the Fraunhofer Institute for Industrial Engineering IAO in Stuttgart and sponsored by the International Academy for Production Engineering (CIRP). It aims to bridge the gap between industry and the scientific community through interdisciplinary dialog involving both users and providers of this forward-looking technology.

The Industry Day held jointly by Fraunhofer IAO in cooperation with Fraunhofer IOSB focuses on the need to find a common understanding of what role Digital Enterprise Technology (DET) will play in disruptive innovation within the manufacturing sector.

DET represents systems and methods employed along the entire chain of production, from digital modeling, simulation and optimization within collaborative product development, through to factory and production process planning. The Industry Day is to serve as an international forum to exchange leading-edge scientific knowledge in this field and its implementation in industrial practice, as disruptive technologies take us forward to the 4th Industrial Revolution.

The Industry Day focuses on the employment of modern ICT technologies and tools for modeling, simulation, optimization, advanced control and monitoring involved in the real-time visualization of products, factories and manufacturing processes. The topics addressed cover the entire lifecycle of product, factory and manufacturing processes, beginning with product design and development, followed by the engineering of factories, machines, equipment and technical processes, through to the commissioning and ramp up of production. These topics will be complemented by a look at manufacturing operation, maintenance and facility management, as well as the recycling and reuse of products and materials, factory overhaul and the environmentally compatible dismantling of production plant.

Renowned DET specialists from the European Commission and from industry will be joined in the event by key providers of digital manufacturing technologies to synergize the excellent basic and applied research and powerful ICT solutions needed to meet the challenging questions coming from the industry.

We look forward to welcoming you at our Centre for Virtual Engineering on 26th of March, 2014, in Stuttgart.

Prof. Dr.-Ing. Wilhelm Bauer
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<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<td>8.00 A.M.</td>
<td>Registration / coffee</td>
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<tr>
<td>9.00 A.M.</td>
<td>Opening and welcome address</td>
<td>Prof. Dr. Wilhelm Bauer, Head of Fraunhofer IAO and IAT University of Stuttgart, Germany</td>
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<tr>
<td>9.20 A.M.</td>
<td>Industry 4.0 – the way to a smarter manufacturing</td>
<td>Prof. Dr. Dieter Spath, WITTENSTEIN AG, Igersheim, Germany</td>
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<td>10.00 A.M.</td>
<td>Manufacturing innovation and Horizon 2020</td>
<td>Dr. Erastos Filos, Factories of the Future, European Commission, DG Research &amp; Innovation, New Forms of Production, Brussel, Belgium</td>
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<td>10.30 A.M.</td>
<td>Integration as enabler towards decentralization and self-organization in advanced manufacturing engineering</td>
<td>Dr. Bernd Brinkmeier, Digital Manufacturing, Siemens Industry Software GmbH &amp; Co. KG, Stuttgart, Germany</td>
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<td>11.00 A.M.</td>
<td>Coffee break</td>
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<td>11.30 A.M.</td>
<td>Dynamic manufacturing networks in a globalized economy</td>
<td>Prof. George Chryssolouris and Dr. Nikolaos Papakostas, LMS, University of Patras, Greece</td>
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<td>12.00 A.M.</td>
<td>Why should we link intangibles to digital engineering</td>
<td>Dr. Christoph Hanisch, Research Cooperations, Festo AG &amp; Co. KG, Esslingen, Germany</td>
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<td>12.30 A.M.</td>
<td>Industry 4.0 – the evolutionary leap in manufacturing engineering</td>
<td>Frank Knafia, PHOENIX CONTACT Deutschland GmbH, Blomberg, Germany</td>
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<td>1.00 P.M.</td>
<td>Lunch</td>
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<td>2.00 P.M.</td>
<td>Digital Factory 2.0 and the 4th Industrial Revolution – status and trends in key industries</td>
<td>Joachim Bauer, Director Sales, DELMIA Central Europe, Munich, Germany</td>
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<td>2.30 P.M.</td>
<td>Learning factories for smart manufacturing</td>
<td>Hoda ElMaraghy and Waguih ElMaraghy, Intelligent Manufacturing Systems Centre, University of Windsor, Canada</td>
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<td>3.00 P.M.</td>
<td>Smart products for future production – achievements and challenges</td>
<td>Jochen Schlick, WITTENSTEIN AG, Ingersheim, Germany</td>
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<td>3.30 P.M.</td>
<td>Coffee break</td>
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<td>4.00 P.M.</td>
<td>SecurePLUGandWORK – an example for the challenges from Industry 4.0</td>
<td>Dr. Olaf Sauer, Fraunhofer IOSB, Karlsruhe, Germany</td>
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<td>4.30 P.M.</td>
<td>Industry 4.0 – Research for the 4th Industrial Revolution</td>
<td>Dr. Manfred Dangelmaier, Fraunhofer IAO</td>
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<td>5.00 P.M.</td>
<td>Closing discussion, overview over sessions of the next two days</td>
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<td>5.45 P.M.</td>
<td>Transfer to dinner event</td>
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<td>6.30 P.M.</td>
<td>Visit of Württemberg Automobilclub (WAC)</td>
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<td>7.00 P.M.</td>
<td>Start of banquet</td>
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<td>10.00 P.M.</td>
<td>Estimated end of banquet</td>
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Venue | Fraunhofer Institute Center Stuttgart, Nobelstrasse 12, 70569 Stuttgart, Hörsaal A and B

Information
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Event Management
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Phone +49 711 970-5453
det2014@iao.fraunhofer.de

Fee | The participation fee for the Industry Day including the banquet amounts to 495 €.

Registration | Register by completing and returning the enclosed card or register online at:
https://anmeldung.iao.fraunhofer.de/registration.php?id=539

Registration Deadline | March 10, 2014

Changes to Registration | Registrations may be transferred free of charge to a different participant at any time. This should be done in writing.

Cancellations | A fee of 75 € is payable for registrations cancelled by March 15, 2014. In the event of cancellation after this date, the full participation fee will be charged.

How to Reach Us | Confirmation of your registration will be accompanied by a map with directions as well as further organizational information and your invoice. You can also find out how to reach us online at www.iao.fraunhofer.de/directions.

In Co-operation With

Fraunhofer IAO

FpF Verein zur Förderung produktionstechnischer Forschung e.V., Stuttgart

University of Bath

Fraunhofer IOSB
REGISTRATION
BY FAX: +49 711 970-736 5461
BY E-MAIL: DET2014@IAO.FRAUNHOFER.DE

I wish to register for the Industry Day: “Disruptive Innovation in Manufacturing Engineering towards the 4th Industrial Revolution” in Stuttgart:

☐ Wednesday, March 26, 2014 | Industry Day
   Fraunhofer Institute Center Stuttgart (Hörsaal A and B)

Note | In accordance with the German Federal Data Protection Act (Bundesdatenschutzgesetz), we inform you that your address will be put on file and processed automatically.

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Surname, Name

________________________________________
Title

________________________________________
Company, Department

________________________________________
P.O. Box, Street

________________________________________
ZIP code, City

________________________________________
Telephone, Fax

________________________________________
E-mail

________________________________________
Place, Date, Signature

In registering for the event, participants agree that their personal data may be collected and used for information purposes, and that any photographs taken in connection with the event may be published without the right to remuneration.