

Wednesday, June 15, 2016



8TH INTERNATIONAL SCIENTIFIC SYMPOSIUM ON LOGISTICS

June 15-16, 2016

Logistics in the Times of the
4th Industrial Revolution –
Ideas, Concepts, Scientific Basis

Südwerk, Karlsruhe

17.00 **Get Together**

18.00 **Welcome**

Prof. Dr. Dr. h.c. Werner Delfmann

Director of the Department of Business Policy and Logistics,
University of Cologne, Germany,
Chairman BVL Scientific Advisory Board

18.15 **High Impact Transformations from Industry 4.0 Technologies:
Crossing the Boundaries between Manufacturing and Logistics**

Prof. Larry M. Sweet, PhD

Associate Director, Institute for Robotics and Intelligent Machines,
Professor of the Practice in Robotics,
Georgia Institute of Technology, Atlanta, Georgia, USA

18.45 **The Internet of Things for Business**

Prof. Dr. Uwe Kubach

Vice President and Chief Evangelist Internet of Things,
SAP SE, Walldorf, Germany

19.15 **PANEL DISCUSSION**

A Field of Tension between Technology and Organization

Prof. Dr.-Ing. Kai Furmans

Head of Institute for Material Handling and Logistics,
Institute of Technology, Karlsruhe, Germany,
BVL Scientific Advisory Board

Prof. Dr. J. Rod Franklin

Dean of Programs, Kühne Logistics University, Hamburg, Germany

Prof. Benoit Montreuil, PhD

Coca-Cola Chair in Material Handling and Distribution,
Georgia Institute of Technology, Atlanta, Georgia, USA

Prof. Dr. Wolfgang Stölzle

Managing Director of the Chair of Logistics Management,
University of St. Gallen, Switzerland,
BVL Scientific Advisory Board

Prof. Dr. Yilmaz Uygun

Professor of Logistics Engineering,
Technologies and Processes Mathematics & Logistics,
Jacobs University Bremen, Germany

20.00 **Networking Event**

Concept Group:

Prof. Dr. Dr. h.c. Werner Delfmann

Prof. Dr. Stefan Minner

Prof. Dr.-Ing. Kai Furmans

Prof. Dr.-Ing. Thorsten Schmidt

Prof. Dr. ir. René de Koster

Thursday, June 16, 2016

9.00	Specialist session I
10.30	Coffee break and time to visit the exhibition
11.00	Specialist session II
12.30	Lunch and time to visit the exhibition
13.30	Specialist session III
15.00	Coffee break and time to visit the exhibition
15.15	The key take aways of the Symposium
15.45	Closing
16.00	Farewell Coffee



Specialist session I | 9.00

Operations, Logistics and Supply Chain Management I

Chair of Session: Prof. Dr. Stephan M. Wagner, Chair of Logistics Management, Swiss Federal Institute of Technology, Zurich, Switzerland, BVL Scientific Advisory Board

Sustainability in the Area of Industry 4.0:

A Comparison between German and Greek Logistics Service Providers

Asst. Prof. Dr. Dimitrios Aidonis, Chairman, Department of Logistics, Technological Educational Institute of Central Macedonia, Serres, Greece

Impact of the Warehouse Operator's Behavior Regarding Enforcement of Time Slots in the Cost Structure of Road Freight Transport Services

Prof. Dr. Ralf Elbert, Department of Management and Logistics, Technical University Darmstadt, Germany

Sustainable Supply Chain Operations in Developing Countries: Supply Chain Models for Base of the Pyramid

Asst. Prof. Dr. Julia Bendul, Head of Workgroup Production & Logistics Networks, Jacobs University Bremen gGmbH, Germany

Manufacturing, Warehousing and Information Technology I

Chair of Session: Asst. Prof. Kimberly Ellis, PhD, Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, USA

A Novel Approach to Analyze Inventory Allocation Decisions in Robotic Mobile Fulfillment Systems

Asst. Prof. Debjit Roy, PhD, Production & Quantitative Methods, Indian Institute of Management Ahmedabad, India; Visiting Professor, Rotterdam School of Management, Netherlands

Challenges for In-house Logistics Posed by Redundant Configuration of Automated Flow Lines Based on Industry 4.0-Technologies

Prof. Dr. Thomas Spengler, Chair of Production and Logistics, Institute of Automotive Management and Industrial Production, Technical University Braunschweig, Germany

A Buffer Configuration Approach for Robust Resource Allocation in Project-Related Production

Prof. Dr.-Ing. Thorsten Schmidt, Professorship of Logistics Engineering, Technical University Dresden, Germany, BVL Scientific Advisory Board

Operations, Logistics and Supply Chain Management II

Chair of Session: Prof. Dr.-Ing. Uwe Clausen, Director, Fraunhofer Institute for Material Flow and Logistics, Dortmund, Germany, BVL Scientific Advisory Board

Food Distribution with Multi-Compartment Trucks:

An Extended Vehicle Routing Problem

Prof. Dr. Alexander Hübner, Catholic University Eichstätt-Ingolstadt, Germany

A Taxonomy of Fourth-Party Logistics Service Providers

Asst. Prof. Dr. Anne Lange, Technical University Darmstadt, Germany

Conceptualizing a Synchronized Combined Freight Transport in the Era of Industry 4.0

Prof. Dr. Herbert Kotzab, Chair of Logistics Management, University of Bremen, Germany, BVL Scientific Advisory Board

Manufacturing, Warehousing and Information Technology II

Chair of Session: Prof. Dr.-Ing. Hartmut Zadek, Institute of Logistics and Material Handling Systems, Otto-von-Guericke-University, Magdeburg, Germany

Integrated Cross-Dock Scheduling and Assignment

Prof. Dr. ir. René de Koster, Professor of Logistics and Operations Management, Erasmus University Rotterdam, Netherlands, BVL Scientific Advisory Board

Smart Storages – Innovative Urban Storage Concepts for Cities of the Future

Prof. Dr. Kai-Oliver Schocke, Frankfurt University of Applied Science, Germany

Role of Transaction Type and Mix on Dual Yard Cranes Performance

Asst. Prof. Debjit Roy, PhD, Production & Quantitative Methods, Indian Institute of Management Ahmedabad, India; Visiting Professor, Rotterdam School of Management, Netherlands

Operations, Logistics and Supply Chain Management III

Chair of Session: Prof. Dr. Stefan Minner, Chair of Logistics and Supply Chain Management, Technical University Munich, Germany, BVL Scientific Advisory Board

Risk Management of Supply Chains in the Digital Age

Prof. Dr. Dr. h.c. Wolfgang Kersten, Head of the Institute of Business Logistics and General Management, University of Technology, Hamburg, Germany, BVL Scientific Advisory Board

Potentials and Risks of Resource Sharing in Production and Logistics

Prof. Dr.-Ing. Michael Freitag, BIBA – Bremer Institut für Produktion und Logistik GmbH at the University of Bremen, Germany

The Effect of 3D Printing on Logistics

Prof. Layek Abdel-Malek, PhD, New Jersey Institute of Technology, Newark, New Jersey, USA

Manufacturing, Warehousing and Information Technology III

Chair of Session: Prof. Dr. Klaus Turowski, Chair of Business Informatics, Otto-von-Guericke-University, Magdeburg, Germany, BVL Scientific Advisory Board

Industry 4.0 Interoperability

Prof. Emeritus Leon McGinnis, PhD, Stewart School of Industrial & Systems Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA

The Fusion of Business Process as a Service and Cyber Physical Systems as Enabler for Industry 4.0

Prof. Dr. Michael ten Hompel, Managing Director, Fraunhofer Institute for Material Flow and Logistics, Dortmund, Germany, Member of the BVL Board

Material Handling with GridFlow Technologies:

An International Collaboration

Prof. Kevin R. Gue, PhD, Director, Logistics and Distribution Institute (LoDI), University of Louisville, Kentucky, USA

8th International Scientific Symposium on Logistics

The International Scientific Symposium on Logistics (ISSL) is the central forum for the scientifically oriented logistics community. The aim is to promote the interdisciplinary and international exchange of ideas in order to encourage the development of totally new models to provide solutions to real-world issues that are of relevance to researchers and scientists as well as business companies.

Most of the key trends in coming years will be technology-driven. There is hardly any other topic that poses such great challenges for today's companies, a phenomenon even being perceived as **"the 4th Industrial Revolution"**, **"Industry 4.0"** or **"IoT"**.

BVL's Scientific Advisory Board is seeing noteworthy developments in all areas of industry, trade and services in response to the challenges for science and real-world logistics by the innovative combination of information technology and production technology in the networked industry of the future. This was reason enough to choose the motto: **Logistics in the Times of the 4th Industrial Revolution – Ideas, Concepts, Scientific Basis.**

Through cooperation with the Material Handling Research Colloquium (IMHRC) we expect numerous participants from abroad for this year's Symposium.

We are looking forward to seeing you in Karlsruhe.

Your Registration

You can conveniently register for the 8th International Scientific Symposium on Logistics either online at www.bvl.de/issl or by phone on +49 / 421 / 173 84 34.

Participation Fees

€ 495 for BVL members and € 575 for non-members, reduced fee € 333 for scientists and € 110 for students.
Special rates can be granted to BVL members only.

Presentation Options

Nils Biederstaedt will be happy to inform you about sponsoring options and about the exhibition.
Phone +49 / 421 / 173 84 29, Mail: biederstaedt@bvl.de.

Location

Südwerk, Henriette-Obermüller-Strasse 10, 76137 Karlsruhe

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