Sophia Antipolis 1994
Stockholm 1995
Milan 1996
Nottingham 1997
Sinaia 1998
The Hague 1999
Toulouse 2000
Bremen 2001
Rome 2002
Helsinki 2003
Sevilla 2004
Munich 2005
Milano 2006
Sophia Antipolis 2007
Lisbon 2008
Leiden 2009
Lugano 2010

Welcome to the ICE Conference 2011

20th to 22nd of June 2011

Aachen, Germany

ICE 2011: Introducing Aachen

- The city where research looks to the future*
- The city that offers a unique combination of rich cultural heritage and a great research environment
- The city with more ~ 12.000 employees in research facilities and app. 42.000 students

Aachen

Center of Europe **Aix-la-Chapelle**

RWTH Aachen University CHIO

City of Fountains **Healing waters**

Where the Kings got crowned

Hottest springs of Central Europe

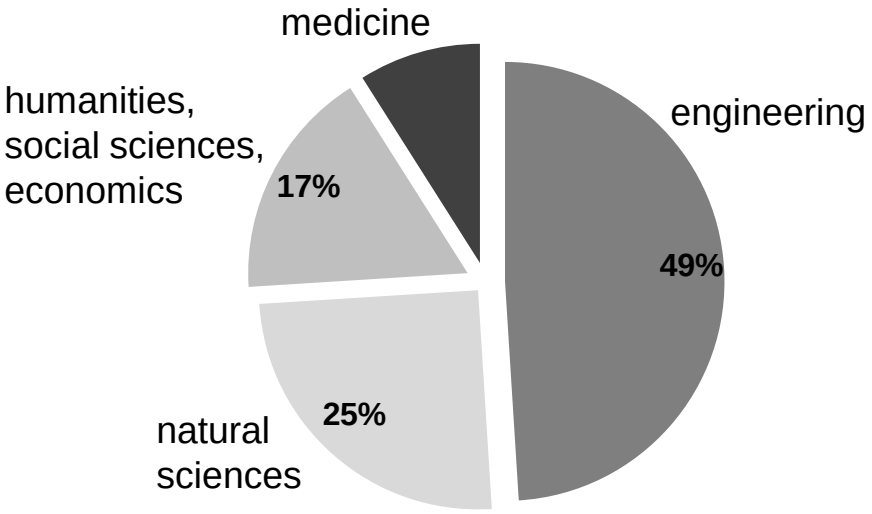
UNESCO World Heritage Site

Aachener Printen

ICE 2011: RWTH Aachen University

- Budget: 611 Mio. Euro
- Third party funding: 227 Mio. Euro
- Contract Research 70 Mio. Euro
- Affiliated institutes: 35 Mio. Euro

- 450 professorships
- 262 institutes, including 20 major institutes
- 4 Fraunhofer Institutes
- 13 Affiliated institutes
- 9 Research Training Groups
- > 31,000 students



RWTH AACHEN Campus

- New initiative at RWTH since 2009
- Initiatives to bring industry and academia together to collaborate and innovate
- Up to 19 research clusters

Your Host for ICE 2011: FIR at RWTH Aachen

Prof. Günther Schuh
Scientific Director

Prof. Volker Stich
Managing Director

Departments

Information Management	Service Management	Production Management
▪ Information Logistics ▪ Information Technologies ▪ Competence Center Electronic Commerce	▪ Service Engineering ▪ Lean Services ▪ Community Management ▪ Competence Center Maintenance	▪ Supply Chain Design ▪ Order management ▪ Logistic Management ▪ Competence Center IT-Management
▪ **Smart Object Innovation Lab**	▪ **Service Science Innovation Lab**	▪ **ERP Innovation Lab**

RWTH AACHEN Campus

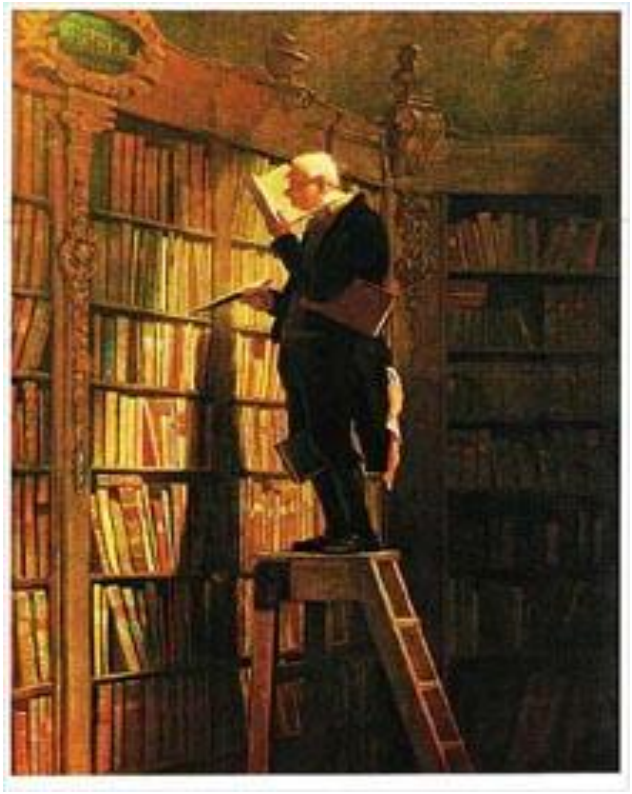
Innovations in Research: The RWTH Aachen Campus Project

Prof. Dr.-Ing. Volker Stich

ICE 2011, 20th June 2011

Our research approach

Research for Library



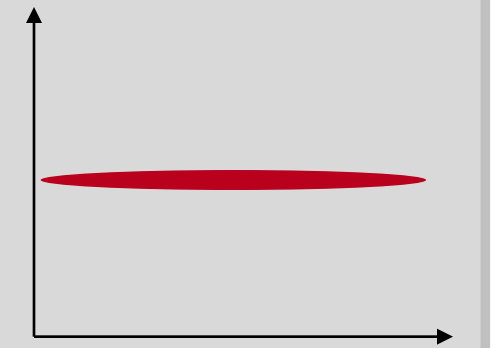
Research for Industry

The Vision: RWTH Aachen Campus as catalyst for research und trigger for innovation

Research Yesterday

- Long development times
- Narrow scope for solutions

Solution Space

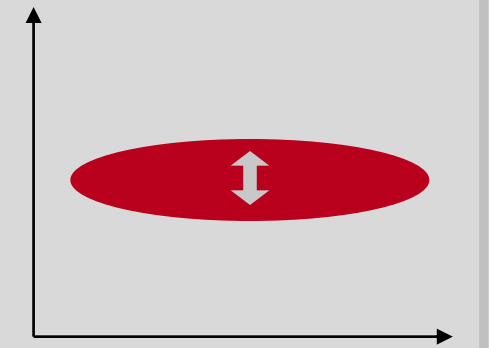


Knowing, where it is written

Research Today

- Long development times
- Narrow scope for solutions

Solution Space

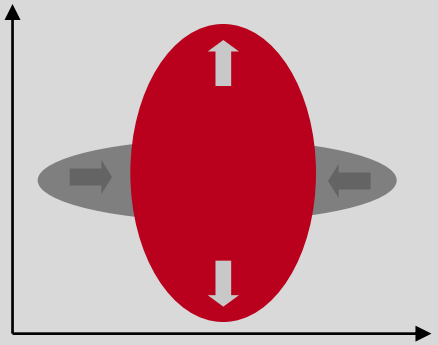


Knowing, who knows what

Research Tomorrow

- Shortened development times
- Ample room for solutions

Solution Space



Knowing, where knowledge is created

RWTH AACHEN Campus

RWTH Aachen Campus project in a nutshell

Vision: To emerge as one of the world leading technical Universities, RWTH Aachen has started the RWTH Campus Project to foster cooperation of research and industry.

- RWTH Aachen Campus Facts
  - Area: appr. **545,000m²**,
  - Capital commitments: appr. **2,000,000,000 €**,
  - New direct and indirect jobs: appr. **10,000**

- The CAMPUS-Areal Melaten covers a total area of **appr. 200.000m²**
- Additional Central Facilities will develop (Center for Continuing Education, Boulevard, „Campus Gate", Child Care, Gastronomy, Hotels, Shopping, Services)

The RWTH Aachen Campus: catalyst for research, competitive power and job-turbo

Benefits for industry

- Increased R&D-speed
- Reduction of research risk
- Access to resources and young staff members
- Use of synergy effects
- Increase of attractiveness of companies
- Development of competitive advantages

Benefits for university

- High-end research with intensive Interaction between industry and economy
- Attractive teaching and training events
- Improvement of image
- Generating new financial sources
- Guarantee of topical relevance

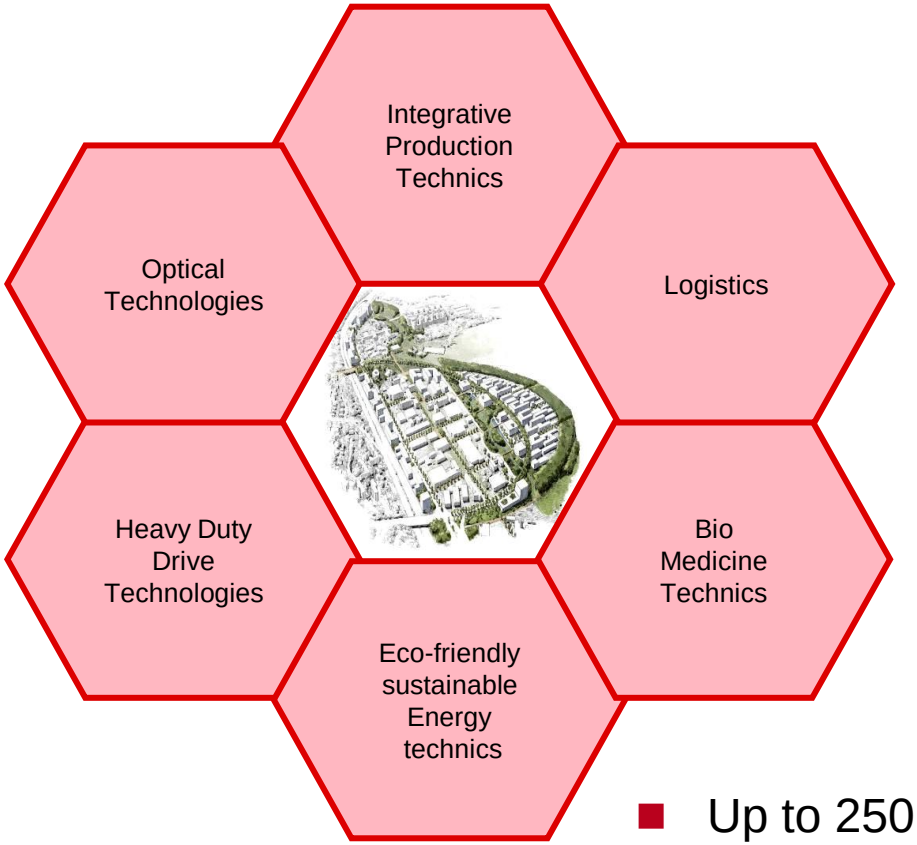
Benefits for members of staff

- Rapid and job-relevant qualifications
- Cosmopolitan working environment
- Broad offer of further training
- Doctorate close to industry
- Early setup of a personal network

Benefits for public

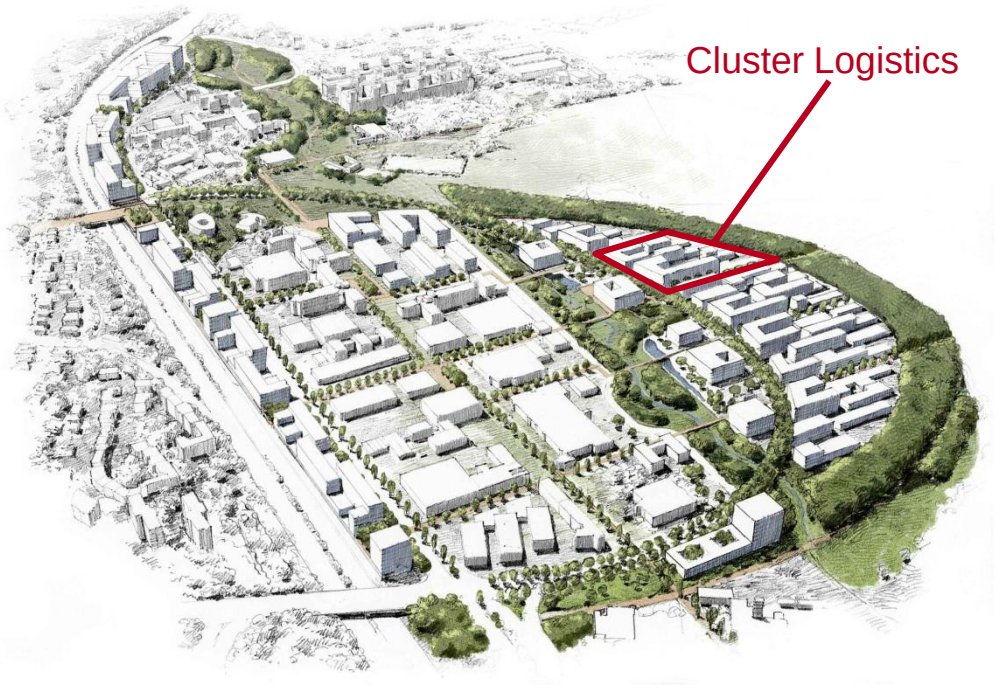
- High-tech-developments
- R&D as competitive power
- Highly qualified jobs
- International attractiveness
- Increase of gross domestic product

Starting with six Campus Clusters



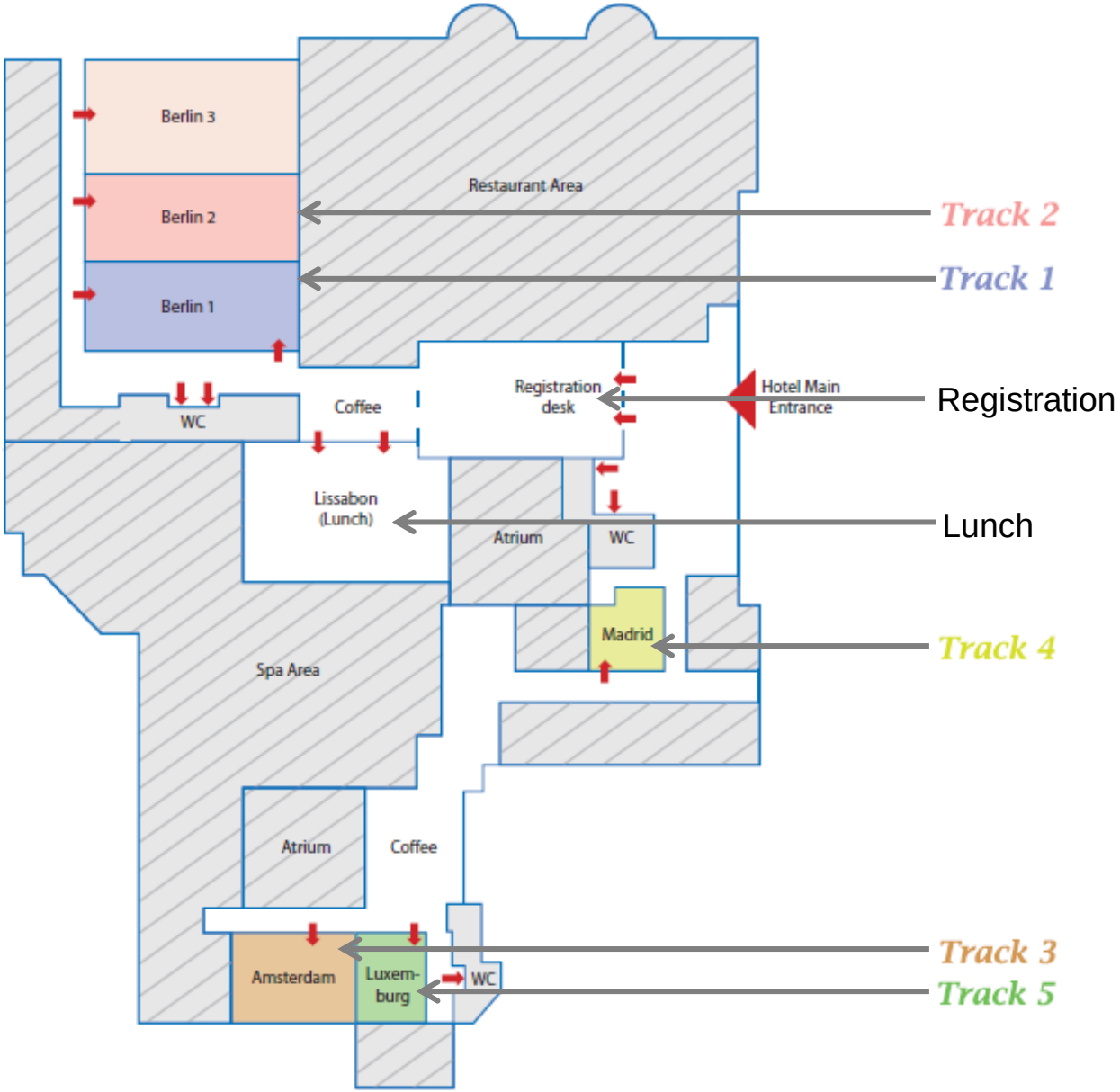
- Up to 250 national and international technology providers (research partner) get the opportunity to …
  - bring in own research and development capabilities
  - establish research cooperation with other parties
  - develop Lasting integration into research activities of RWTH Aachen

FIR‘s Cluster Logistics



PSI · MM · asseco GERMANY · myOpenFactory · itelligence · GERRY WEBER · CLAAS · bitmi Bundesverband IT-Mittelstand e.V. · PHILIPS sense and simplicity · dawin checkMaster · TV HIFI VIDEO MONITOR REPARATUR CENTER HEINEN-ZAVELBERG · Technologie Transfer · AIM · ND DER SERVICE-VERBAND · Schuh & Co. Komplexitätsmanagement · SKF · Lean Enterprise Inst · GS1 Germany · FAUSER AG organisation@software · MUL SERVICES · Institut für Sprach- und Kommunikationswissenschaft · humtec RWTH

Innovating Products and Services for Collaborative Networks
Venue and program overview



Monday, 20. June 2011

- 3 Keynote presentations
- 5 Parallel Tracks: 15 sessions
- 65 papers
- Networking reception hosted by the Mayor of Aachen Mr. Marcel Phillip

Tuesday, 21. June 2011

- Workshop Sessions
- Gala Dinner & Award Ceremony
- Innovation Lab Tours (lists at registration desk)

Wednesday, 22. June 2011

- Workshop Sessions

Monday: Paper Sessions

09:00 – 10:30 — **KEYNOTES**
Prof. Volker Stich; Drs. Jean Severijns; Prof. Günther Schuh

Track 1

10:30 – 11:00 / 11:00 – 12:30 — Advances in Concurrent Engineering

A. Braukhane, O. Romberg: Lessons Learned from One-Week Concurrent Engineering Study Approach

E. Red, G. Jensen, D. French, P. Weerakoon: Multi-User Architectures for Computer-Aided Engineering Collaboration

I.-S. Fan, I. Jennions: Asset Health Management System Design

J. Y. Song, M. Kracheel, G. Ziegler, H. A. Moser: Critical Interaction Instances in Collaborative Concurrent Engineering

12:30 – 13:30 / 13:30 – 15:00 — Approaches in Concurrent Engineering

P. Nakki, K. Koskela, M. Pikkarainen: Practical Model for User-driven Innovation in Agile Software Development

N. Jastroch, V. Kirova, C. S. Ku, T. J. Marlowe, M. Mohtashami: Adapting Business and Technical Processes for Collaborative Software Development

K. Ternai, M. Török: A New Approach in the Development of Ontology Based Workflow Architectures

E. Nass, M. Scheibmayer: Defining a Research Framework for the Business Impact of Data Management

15:00 – 15:30 / 15:30 – 17:30 — Advances in Concurrent Enterprising

M. Rossi, E. T. Kerga, M. Taisch and S. Terzi: Proposal of a method to systematically identify wastes in New Product Development Process

M. Donovang-Kuhlisch, M. Smal: GeoSpatial-Temporal Analytics to gain Insight from Linked Open Data

J. A. dos Santos, P. Harland: Customer Satisfaction as an Objective Criterion for the Product Improvement Process

V. Franchini, R. Fornasiero, A. Vinelli: From Fashion Based Production to Customer-Oriented Networks for Healthy and Fashionable Footwear

A. Nielen, D. Kolter, S. Mütze-Niewöhner, J. Karla, C. M. Schlick: Towards a Human Reliability Analysis in Process Modelling: An Empirical Investigation

Track 2

10:30 – 11:00 / 11:00 – 12:30 — Product and Service Engineering

C. Grefrath, R. Frombach, H. Schmidt-Bleker, A. Meckelnborg, C. Deutzkens: Construction industry meets services

P. Furrer, C. Hollmaller, F. Kienzle, O. Küttel, N. Gamard, S. Gamard: A semantic journey to discover research and innovation opportunities in Europe

A. Kampker, B. Franzkoch, C. Wesch-Potente, I. Brökelmann: ReBox-Pool - Innovative logistic concept based on a modular loading carrier concept

M. Flores, A. Cabello, L. Torredemer, M. Agrawal, J. Keast, S. Terzi and A.Sopelana: Do enterprises implement a Process Architecture towards Lean in Product Development? A comparative study among large and small firms

12:30 – 13:30 / 13:30 – 15:00 — Product and Service Approaches

L. Henze, I. Mulder, P. J. Stappers: Conceptualizing Product Service Networks: Towards an Initial Framework

C. Durugbo: Collaborative Networks for Product-Service Systems Delivery

A. Hesmer, J. Trebels, S. Wiesner, B. Brenken, K.-D. Thoben: Introducing a co-creative Innovation Environment for Extended Products

G. Schuh, P. Thomassen, G. Gudergan: Designing Cooperation Concepts for Service Networks

15:00 – 15:30 / 15:30 – 17:30 — Collaborative Innovation

B. Katzy, K. Sailer, T. Holzmann, E. Turgut: Deal-Flow portfolios in Innovation Collaborations – Revisiting the Rationale of Innovation Networks

F. Larrinaga, I. Santos, O. Lizarralde, A. Perez: A Case Study on the Use of Community Platforms for Inter-Enterprise Innovation

H. Gous, J. Gard, G. Baltes, C. Schutte, A. Gerber: Business architecture for inter-organisational innovation networks: A case study comparison from South Africa and Germany

E. Gourova, K. Toteva: Raising creativity and participation in innovation and knowledge management activities

J. Wu, H.-D. Haasis: Knowledge-based Stakeholder Collaboration for Sustainable Development of Freight Villages

Track 3

10:30 – 11:00 / 11:00 – 12:30 — Concurrent Enterprising Domains

H. Duin, K.-D. Thoben: Serious Gaming for Sustainable Manufacturing: A Requirements Analysis

C. Kandel, M. Klumpp, T. Keusgen: GPS based Track and Trace for Transparent and Sustainable Global Supply Chains

M. Suchocki: Supplier-led Enterprise Change Management within the AEC Sector

Oliver Budde, Julius Golovatchev: PLM Audit in the Telecommunication Industry

12:30 – 13:30 / 13:30 – 15:00 — Smart Objects Engineering

M. Forcolin, E. Fracasso, F. Tumanischvili, P. Lupieri: EURIDICE – IoT Applied to Logistics Using the Intelligent Cargo Concept

J. Fluhr, T. Lutz: Use Case Types for Communication with and for Electric Vehicles (EV)

R. Stevens, K. Kalaboukas, M. Forcolin: Simple Sensor Network Middleware and First Acting Devices

K. A. Hribernik, Z. Ghrairi, C. Hans, K.-D. Thoben: Co-creating the Internet of Things - First Experiences in the Participatory Design of Intelligent Products with Arduino

15:00 – 15:30 / 15:30 – 17:30 — Advances in Concurrent Enterprising

V. Stich, S. Kompa, C. Meier, C. M. Senger: Changeable Production Systems in the Machinery and Equipment Industry – Success Factors: IT-Integration and Real-Time Capable Production Planning and Control

Y.-J. Tseng, F.-Y. Huang, J.-C. Wang: A Particle Swarm Optimization and Case-Based Reasoning Model for Sub-Disassembly Formation in the Multi-Plant Disassembly Sequence Planning

S. Meiser, W. Kuehn: Resource Capacity Search in Collaborative Print Service Networks

P. Hofbauer, C. Wenninger: Elastic Collaboration for Automotive Supplier Networks

T. Wuest, P. Sitek, M. Seifert, K.-D. Thoben: Organisational and technical interdependencies in collaborative production

Track 4

10:30 – 11:00 / 11:00 – 12:30 — Living Labs-1

P. Panek, W. Hlauschek, M. Schrenk, K. Werner, W. L. Zagler: Experiences from User Centric Engineering of Ambient Assisted Living Technologies in the Living Lab Schwechat

A.-G. Nyström, S. Leminen: Living Lab - A New Form of Business Network

I. Vérilhac: LUPI – innovative uses and practices lab, core of the Design Creative City Living Lab

J. Salminen, S. Konsti-Laakso, M. Pallot, B. Trousse, B. Senach: Evaluating User Involvement within Living Labs through the use of a Domain Landscape

12:30 – 13:30 / 13:30 – 15:00 — Living Labs-2

A. Dippelhofer, U. Daniels, T. Rudolph, M. Conte, R. Santoro: The Living Labs for the Market Development and Value Creation: the GNSS Living Lab Prize

J. Benavent, J. Colobrans, S. Marí, J. C. Castro, J. M. Colomé: Lessons learned from users: The development of the LivingLab4carers platform case

H. Schaffers, A. Sällström, M. Pallot, J.M. Hernández-Muñoz, R. Santoro, B. Trousse: Integrating Living Labs with Future Internet Experimental Platforms for Co-creating Services within Smart Cities

B. R. Katzy, C. J. Stettina, L. P. J. Groenewegen, M. J. de Groot: Managing Weak Ties in Collaborative Work

15:00 – 15:30 / 15:30 – 17:30 — Open Innovation

S. Schwab, J. Koch, P. Flachskampf, I. Isenhardt: Strategic Implementation of Open Innovation Methods in Small and Medium-sized Enterprises

M. Leitzelman, B. Trousse: Supporting the Selection of Open Innovation Software Tools

B. Semolic, P. L. Staal-Ong: Open innovation system and collaboration platform for the large EU infrastructure projects – NETLIPSE case study

C. Durugbo, J. Riedel, K. Pawar: Towards a Unified Model of Co-creation

A. Badii, D. Fuschi: ELLIOT: Co-creative open innovation and living lab based evaluation to foster wider adoption of IoT-enabled solutions

Track 5

10:30 – 11:00 / 11:00 – 12:30 — Integrated Production Technology for High-Wage Countries

C. Brecher, W. Lohse, M. Vitr: CAM-NC Planning with Real and Virtual Process Data

A. Roderburg, K. Gerhardt, C. Hinke, H.-S. Park, S. Buchholz, F. Klocke: Design Methodology for Innovative Hybrid Manufacturing Technologies

U. Reisgen, M. Schleser, S. Scheik, W. Michaeli, O. Grönlund, A. Neuß, J. Wunderle, R. Poprawe, A. Rösner, K. Bobzin, T. Schläfer, S. Theiß, P. Kutschmann, E. Haberstroh, D. Flock, A. Bährig-Polaczek, M. Jakob: Novel Process Chains for the Production of Plastics/Metal-Hybrids

U. Thombansen, J. Schüttler, T. Auerbach, M. Beckers, G. Buchholz, U. Eppelt, Y.-S. Gloy, P. Fritz, S. Kratz, J. Lose, T. Molitor, A. Reßmann, A. Schreiber, D. Veselovac, K. Willms, T. Gries, W. Michaeli, D. Petring, R. Poprawe, U. Reisgen, R. Schmitt, W. Schulz, F. Klocke: Model-Based Self-Optimization for Manufacturing Systems

12:30 – 13:30 / 13:30 – 15:00 — Integrated Production Technology for High-Wage Countries

G. Schuh, R. Schmitt, A. Aryobsei, A. Bohl, M. Hienzsch, J. Quick: Integrative Standardisation – Theoretical Model and Empirical Investigation of German Toolmaking Firms

G. Schuh, C. Thomas, S. Fuchs, T. Potente: Interactive visualization in production control

T. Brosze, M. Schürmeyer, F. Bauhoff, N. Hering, J. Quick: High Resolution Production Control by Real Time Information

J. Aguilar, G. J. Schmitz, U. Hecht, A. Schievenbusch, R. Guntlin, G. Schuh, A. Kampker, B. Franzkoch, P. Burggraef, R. Hilchner, J. Noecker, C. Wesch: Integrative Factory Design for a Casting Facility for TiAl Components

15:00 – 15:30 / 15:30 – 17:30 — Intelligent Non-Hierarchical Networks

L. Canetta, A. F. Pitu: Open Innovation Accelerators benchmarking: applicability in the Mass Customisation context

D. Romero, J. Osorio, M. C. Bentacur, G. Estrada, A. Molina: Next Generation Computer-Aided Tools: Supporting Integrated Sustainable Mass-Customized Product Developments

G. Schuh, T. Potente, J. Nöcker, T. Jasinski: Framework for complexity-oriented allocation of production in non-hierarchical networks

J. Riedel, J. Baalsrud Hauge: State of the Art of Serious Games for Business and Industry

17:30 – 19:00 / 19:00 – 21:30 — **Networking City Hall**
(Welcome by Marcel Philipp – Mayor of the City of Aachen)

Tuesday and Wednesday: Workshop Sessions

	Track 1 Enterprise Interoperability	Track 2 Living Labs	Track 3 Service Science and Innovation	Track 4 Organisational Integration & Responsiveness	Track 5 Professional Networks
09:00 – 10:30	Collaboration and Interoperability Services in the COIN System: A Scientific Approach – 1	Living Lab – Common Assets – 1	Lean Service Processes	Distributed, Standards-based Master Data Management for Seamless Interoperability – 1	Design and Management (strategic, tactical and operational) of Non-Hierarchical Collaborative Manufacturing Networks – 1
10:30 – 11:00					
11:00 – 12:30	Collaboration and Interoperability Services in the COIN System: A Scientific Approach – 2	Living Lab – Common Assets – 2	Innovating Service Solutions – 1	Distributed, Standards-based Master Data Management for Seamless Interoperability – 2	Design and Management (strategic, tactical and operational) of Non-Hierarchical Collaborative Manufacturing Networks – 2
12:30 – 13:30					
13:30 – 15:00	Enterprise Interoperability and Collaboration in the Enlarged Europe Community – 1	Living Lab – Domain Networks – 1	Innovating Service Solutions – 2	Smart Objects and Complex Event Processing – 1	Production Planning in Serious Gaming – inTime (Game)
15:00 – 15:30					
15:30 – 17:30	Enterprise Interoperability and Collaboration in the Enlarged Europe Community – 2	Living Lab – Domain Networks – 2	Smart Nets	Smart Objects and Complex Event Processing – 2	Supplier performance evaluation via EDI – inTime (UseCase)
19:00 – 22:00	Gala Dinner and Award Ceremony in the Historical Ballroom „Altes Kurhaus"				

	Track 1 Enterprise Interoperability	Track 2 Living Labs	Track 3 Service Science and Innovation	Track 4 Organisational Integration & Responsiveness	Track 5 Professional Networks
09:00 – 10:30	COIN EI / EC Services. From Lesson Learnt to Future Implementation Ideas: Consolidation to facilitate Uptake and Adoption – 1	Living Lab – Sharing Experiences and Joint Initiatives – 1	Service Engineering – 1	Wireless Sensors Networks	Towards Theoretical Framework of Living Lab Phenomena
10:30 – 11:00					
11:00 – 12:30	COIN EI / EC Services. From Lesson Learnt to Future Implementation Ideas: Consolidation to facilitate Uptake and Adoption – 2	Living Lab – Sharing Experiences and Joint Initiatives – 2	Service Engineering – 2	Strategic Planning for Innovation in High Velocity Markets – 1	Future Internet Enterprise Systems – 1
12:30 – 13:30					
13:30 – 15:00	COIN-Award	Living Lab – Sharing Experiences and Joint Initiatives – 3	Service Systems – 1	Strategic Planning for Innovation in High Velocity Markets – 2	Future Internet Enterprise Systems – 2
15:00 – 15:30					
15:30 – 17:30	International Journal of Product Development	Living Lab – Sharing Experiences and Joint Initiatives – 4	Service Systems – 2	Closed Session	Closed Session

The Campus Cluster Logistics‘ Innovation Labs adress three main research areas

Service Science InnovationLab

REPARATUR CENTER HEINEN·ZAVELBERG

CLAAS

PHILIPS sense and simplicity

SKF

Invent the future of Services

How can service innovations be successfully realised with the helb of modern techniques and procedures?

ERP InnovationLab

PSI

arteco GERMANY

itelligence

myOpenFactory

FAUSER AG organisation@software

Technologie Transfer

Create the Future of Enterprise Resource Planning

Which systems, technologies and standards are necessary to enable optimal information exchange in logistic networks?

Smart Objects InnovationLab

GERRY WEBER

GS1 Germany

bitmi Bundesverband IT-Mittelstand e.V.

dawin checkMaster

MUL SERVICES

Enable High Resolution Transparency

Which technologies and standards enable to model real-time logistic processes in information systems?

Guided Tours!

ICE 2011: How to get in and around Aachen

Conference Venue

FIR-Innovation Lab Tours, Tuesday

Main Building RWTH Aachen

Gala Dinner, Tuesday, 19:00

Networking, Monday, 19:00

Main Station

Key Speakers

	**Conference host and chair** Professor Volker Stich FIR at RWTH Aachen Managing Director	Innovations in Research: The RWTH Aachen Campus Project
	**First Opening Keynote** Jean Severijns Technology Top Region Limburg Project Manager Internationalisation	Smart Specialisation Strategy in a Functional Region: The TTR-ELA triangle case
	**Second Opening Keynote** Professor Günther Schuh FIR at RWTH Aachen Scientific Director	Developing a production engineering based theory of production
	**Networking Welcome, Monday** Marcel Philipp City of Aachen Mayor	“Welcome in Aachen”
	**Gala Dinner Keynote, Tuesday** Dr. Fiona Williams Ericsson Eurolab Project Manager	Talk on concurrent enterprising

Thank You for your Attention

Enjoy ICE 2011

- Speakers have to be in the session rooms 15mn before the session start for uploading presentations. Please prepare a short bio.
- Session chairs to be in the session rooms 20mn before the session start for installing & connecting their laptop.
- Do not forget to wear your name batch all during the Conference – also for the evening events.