

**NINETEENTH INTERNATIONAL
WORKING SEMINAR
ON
PRODUCTION ECONOMICS
FEBRUARY 22-26, 2016
INNSBRUCK
AUSTRIA**

**Nineteenth
International
Working Seminar
on
Production Economics**

PROGRAMME



**LIST
OF
PARTICIPANTS**

**CONGRESS INNSBRUCK
INNSBRUCK
AUSTRIA**

February 22-26, 2016

SOCIAL PROGRAMME

Extramural Programme



Wednesday February 24, 12.00

Editorial Board Luncheon
International Journal of Production Economics

Hosted by Elsevier, Amsterdam
Hotel Schwarzer Adler, Kaiserjaegerstrasse 2, Innsbruck



Thursday February 25, 12.00

Faculty Meeting
Mediterranean Institute for Advanced Studies

Restaurant Goldener Adler, Herzog-Friedrich-Strasse 6, Innsbruck

Excursion Programmes **(further information at the Reception Desk)**

Trips to Venice or Bolzano/Bozen &
Merano/Meran (Italy)

Innsbruck City and Mountain (Nordkette) tour

Hall & Swarovski Crystal Worlds

Trip to Castle Neuschwanstein & Oberammergau

Skiing excursion to St. Anton or Kitzbühel

Trip to St. Moritz/Switzerland

Social Programme

MONDAY February 22	18.00	RECEPTION AND REGISTRATION Welcome Cocktails Congress Innsbruck, Kristall-Foyer
TUESDAY February 23	16.30	WALKING TOUR AMONG ART GALLERIES IN INNSBRUCK: Galerie Bernd Kugler, Burggraben 6/II Galerie Elisabeth & Klaus Thoman, Maria-Theresien-Straße 34 (16.30 Meeting point Congress Innsbruck/Information Desk)
WEDNESDAY February 24	21.30	GUIDED TOUR TO THE STADTTURM OF INNSBRUCK AND SMALL DINNER AT STIFTSKELLER <i>Guided Tour</i> (21.30 Meeting point Congress Innsbruck/Information Desk)
THURSDAY February 25	21.00	CONFERENCE DINNER Grand Hotel Europa, Innsbruck Südtiroler Platz 2, 6020 Innsbruck
FRIDAY February 26	12.00	FAREWELL COCKTAILS Congress Innsbruck, Kristall-Foyer

Meeting point for lunch:

Restaurant Stifskeller, Stiftsgasse 1-7.

ORGANISATION COMMITTEE

Robert W. Grubbström, Linköping Institute of Technology
Hans H. Hinterhuber, Universität Innsbruck
Janerik E. Lundquist, Linköping Institute of Technology
Andrea Mayr, Universität Innsbruck

SEMINAR SECRETARIAT

Janerik E. Lundquist, Linköping Institute of Technology
Andrea Mayr, Universität Innsbruck
Juliane Muszik, Universität Innsbruck
Lisa Kirchmair, Universität Innsbruck
Sophie Tkalec, Universität Innsbruck

PROGRAMME COMMITTEE

Marija Bogataj, University of Ljubljana
Dilay Çelebi, Istanbul Technical University
Attila Chikán, Corvinus University, Budapest
Huiping Ding, Beijing Jiaotong University
Alexandre Dolgui, École des Mines de Nantes
Günter. Fandel, Fern-Universität Hagen
Ludo F. Gelders, Katholieke Universiteit, Leuven
Richard F. Hartl, Universität Wien
Giovanna Lo Nigro, Università di Palermo
Hiroaki Matsukawa, Keio University, Yokohama
Stefan Minner, University of Vienna
Christopher O'Brien, University of Nottingham
Costas. Pappis, University of Piraeus
Lorenzo Peccati, Univ. Comm. Luigi Bocconi, Milan
John. Rowcroft, University of New Brunswick
Mario T. Tabucanon, Asian Inst. of Technology, Bangkok
Ruud Teunter, University of Groningen
Markku Tuominen, Lappeenranta Univ. of Technology
Stephan M. Wagner, Eidg. Technische Hochschule, Zürich
D. Clay Whybark, Univ. of North Carolina, Chapel Hill

SCIENTIFIC PROGRAMME

TUESDAY, February 23
8.00-8.45

OPENING SESSION (Saal Brüssel)

Chairman: Professor Dr Hans H. Hinterhuber, Austria

WELCOMING ADDRESS

Professor Dr Drs h.c. Tilmann Märk, Rector Magnificus, University of Innsbruck

KEYNOTE ADDRESS

“Productivity-Competitiveness Relationship at the National and Firm Level”

Attila Chikán

Professor, Former Rector, Former Minister of Economic Affairs
Corvinus University, Budapest, Hungary

STREAM A (Saal Strassburg 1)

Servitization

Chairman: Professor Christopher O'Brien,
United Kingdom

08.45-09.30

Pekka Töytäri, Esko Hakanen, Ville Eloranta,
Taija Turunen, Risto Rajala, Tapio Melgin

INCREASING INFORMATION INTENSITY IN
INDUSTRIAL SERVICE OPERATIONS

Discussant: Christian Wankmüller, Austria

Coffee Break 9.30-10.00

10.00-10.45

Hagen Salewski

SOLVING FACILITY LOCATION PROBLEMS AND
SERVICE MODULARIZATION PROBLEMS USING
GREEDY ADAPTIVE RANDOMIZED SEARCH
PROCEDURES

Discussant: Elina Karttunen, Finland

10.45-11.30

Florian Kiesel, Jörg M. Ries

THE IMPACT OF MERGERS AND ACQUISITION IN THE
LOGISTICS SERVICE INDUSTRY

Discussant: Ken Platts, United Kingdom

STREAM B (Saal Strassburg 2)

Logistics

Chairman: Professor Huiping Ding, China

08.45-09.30

Friederike Engehausen, Hermann Lödding

INFLUENCE OF SETUP CYCLES ON LOGISTIC
OPERATING CURVES

Discussant: Hans Schjær-Jacobsen, Denmark

Coffee Break 9.30-10.00

10.00-10.45

Markku Kuula, Mart Malik, Pinja Raitasuo,
Alex J. Ruiz-Torres

THE EFFECT OF LONG-TERM CUSTOMER
RELATIONSHIPS AS WELL AS CUSTOMER-RELATED
BUSINESS UNCERTAINTY ON 3RD PARTY LSP'S
PERFORMANCE

Discussant: William G. Ferrell, Jr, USA

10.45-11.30

Shanshan Li, Yong He

DYNAMIC STRATEGIES FOR SUPPLY DISRUPTION IN
AN EPQ SYSTEM

Discussant: Friederike Engehausen, Germany

STREAM C (Saal Linköping)

Inventory Control

Chairman: Professor Imre Dobos, Hungary

08.45-09.30

Attila Chikán, Zsolt Matyusz

COMPANY COMPETITIVENESS AND INVENTORY
PERFORMANCE

Discussant: Alessandro Brun, Italy

Coffee Break 9.30-10.00

10.00-10.45

Alexander Hübner, Kai Schaal

A RETAIL SHELF-SPACE AND IN-STORE PROCESS
OPTIMIZATION MODEL

Discussant: Markku Tuominen, Finland

10.45-11.30

Bart Beemsterboer, Martin Land, Ruud Teunter

COMBINED MAKE-TO-ORDER AND MAKE-TO-STOCK
PLANNING - INTEGRATING INVENTORY AND
WORKLOAD CONTROL

Discussant: Grigory Pishchulov, Germany

STREAM A (Saal Strassburg 1)

Servitization

Chairman: Professor Veli-Matti Virolainen, Finland

19.00-19.45

**Elina Karttunen, Mika Immonen, Jouni Koivuniemi,
Mikko Pynnönen**

HIDDEN STRUCTURE AND VALUE NETWORK:
SHEDDING LIGHT ON NETWORK STRUCTURE AND
CHANGE

Discussant: Florian Kiesel, Germany

19.45-20.30

Andrea Alghisi, Nicola Saccani, Marco Perona

THE ROLE OF KNOWLEDGE MANAGEMENT SYSTEMS
IN THE PROVISION OF PRODUCT-SERVICE
SOLUTIONS

Discussant: Pekka Töytäri, Finland

20.30-21.15

Christian Wankmüller, Gerald Reiner, Thomas Wurzer

INTEGRATED CAPACITY AND INVENTORY
MANAGEMENT IN DISASTER RELIEF OPERATIONS

Discussant: Hagen Salewski, Germany

STREAM B (Saal Strassburg 2)

Logistics

Chairman: Professor Anders Segerstedt, Sweden

19.00-19.45

**Peter Kelle, Mingzhu Jin, Helmut Schneider,
Christoph Claypool**

EVALUATING TRADEOFFS IN INTERMODAL FREIGHT
TRANSPORTATION DEVELOPMENT

Discussant: Markku Kuula, Finland

19.45-20.30

Hans Schjær-Jacobsen

CONSTRUCTION AND OPERATION OF THE FEHMARN
BELT IMMERSERED TUNNEL IS A HIGH RISK BUSINESS
CASE

Discussant: John Rowcroft, Canada

20.30-21.15

Nadeepa Wickramage, William G. Ferrell, Jr

INTERMODAL HUBS IN THE PHYSICAL INTERNET

Discussant: Peter Kelle, USA

STREAM C (Saal Linköping)

Inventory Control

Chairman: Dr Simone Zanoni, Italy

19.00-19.45

Emel Arikan, Lena Silbermayr

UNIDIRECTIONAL INVENTORY TRANSSHIPMENTS IN
A DECENTRALIZED SUPPLY CHAIN UNDER
CORRELATED DEMANDS

Discussant: Ruud H. Teunter, The Netherlands

19.45-20.30

Grigory Pishchulov

STOCK RATIONING WITH TWO DEMAND CLASSES
AND CLASS-DEPENDENT UNIT SIZE

Discussant: Lena Silbermayr, Austria

20.30-21.15

Alessandro Brun, Hakan Karaosman

A SIMULATION STUDY OF INVENTORY
REPLENISHMENT IN LUXURY FASHION SCS

Discussant: Alexander Hübner, Germany

**TUESDAY, February 23
8.00-8.45**

**OPENING SESSION (Saal Brüssel)
Chairman: Professor Dr Hans H. Hinterhuber, Austria**

**WELCOMING ADDRESS
Professor Dr Drs h.c. Tilmann Märk, Rector Magnificus, University of Innsbruck**

**KEYNOTE ADDRESS
“Productivity-Competitiveness Relationship at the National and Firm Level”
Attila Chikán
Professor, Former Rector, Former Minister of Economic Affairs
Corvinus University, Budapest, Hungary**

**STREAM D (Saal Freiburg 1)
Risk Management in Production
Chairman: Professor Hiroaki Matsukawa, Japan**

**08.45-09.30
Gionata Carmignani, Franco Failli, Francesco Zammori**

A FUZZY MULTI-DIMENSIONAL RISK ASSESSMENT
FRAMEWORK FOR INTEGRATED MANAGEMENT
SYSTEMS (MIS)

Discussant: Jesper Asmussen, Denmark

Coffee Break 9.30-10.00

**10.00-10.45
Jukka Hallikas, Katrina Lintukangas, Jaana Lirkki**

RISK MANAGEMENT IN SUSTAINABLE SUPPLY
CHAIN: THE ROLE OF SUSTAINABILITY PROCEDURES
IN RISK MANAGEMENT PERFORMANCE

Discussant: Martin Waldemarsson, Sweden

**10.45-11.30
Nunzia Carbonara, Roberta Pellegrino**
ASSESSING THE BENEFITS OF THE PRODUCT
POSTPONEMENT STRATEGY TO MITIGATE SUPPLY
CHAIN RISKS

Discussant: Franco Failli, Italy

**STREAM E (Saal Freiburg 2)
Manufacturing Management
Chairman: Professor Matteo Mario Savino, Italy**

**08.45-09.30
Nicola Costantino, Roberta Pellegrino, Danilo Tauro**

REAL OPTIONS-BASED STRATEGIES TO MITIGATE
SUPPLY CHAIN TRANSPORTATION RISK

Discussant: Stefan Häussler, Austria

Coffee Break 9.30-10.00

**10.00-10.45
Rudrajeet Pal, Mohamed M. Naim, Laura Purvis,
Anthony Soroka**

RESILIENCE DEVELOPMENT PROCESS DURING
FINANCIAL CRISES: A DYNAMIC CAPABILITY
APPROACH

Discussant: Gionata Carmignani, Italy

**10.45-11.30
Matthias G. Wichmann, Thomas S. Spengler**
A NONLINEAR ACTIVITY ANALYSIS APPROACH TO
MODEL RESHAPING PROCESSES

Discussant: Martin Grunewald, Germany

**STREAM F (Saal New Orleans)
Lean Production
Chairman: Professor Kalevi Kyläheiko, Finland**

**08.45-09.30
Christian Hicks, Tom McGovern, Adrian Small,
Nick Steen, Paula Whitty, Jonathan Erskine, David Hunter**
THE APPLICATION OF MULTIPLE INTERRUPTED TIME
SERIES ANALYSIS FOR EVALUATING THE IMPACT OF
LEAN

Discussant: Max Finne, United Kingdom

Coffee Break 9.30-10.00

**10.00-10.45
Krisztina Demeter, Dávid Losonci**

TRANSFERRING LEAN KNOWLEDGE WITHIN
MULTINATIONAL NETWORKS

Discussant: Christian Hicks, United Kingdom

**10.45-11.30
Max Finne**
DEVISING A TECHNOLOGY-ENABLED SERVICE
PRODUCTIVITY IMPROVEMENT

Discussant: Krisztina Demeter, Hungary

STREAM D (Saal Freiburg 1)

Risk Management in Production

Chairman: Professor Hiroaki Matsukawa, Japan

19.00-19.45

**Jesper N. Asmussen, Aseem Kinra, Mads Uhre,
Rasmus Lund**

AN EFFECT-ORIENTED APPROACH TO ASSESSING
SUPPLY SIDE VULNERABILITY IN GLOBAL SUPPLY
CHAINS

Discussant: Michael L. Keilhacker, Germany

19.45-20.30

Martin Waldemarsson

LONG TERM PLANNING WITH PORTFOLIO RISK
DIVERSIFICATION IN SMALL SCALED FORESTRY

Discussant: Nunzia Carbonara, Italy

20.30-21.15

Michael L. Keilhacker, Stefan Minner

SUPPLY CHAIN RISK MANAGEMENT FOR CRITICAL
COMMODITIES: A SYSTEM DYNAMICS MODEL FOR
THE CASE OF THE RARE EARTH ELEMENTS

Discussant: Jukka Hallikas, Finland

STREAM E (Saal Freiburg 2)

Manufacturing Management

Chairman: Professor Daria Battini, Italy

19.00-19.45

M.A.R. Khater, Ken W. Platts

IN SEARCH FOR COMPETENCE: IDENTIFYING "MAKE
COMPETENCES" IN SMALL AND MEDIUM
ENTERPRISES

Discussant: Chunming (Victor) Shi, Canada

19.45-20.30

**Massimo Bertolini, Gionata Carmignani,
Francesco Zammori**

USING SCRUMBAN METHODOLOGY FOR
PRODUCTION PLANNING AND CONTROL IN
LUXURY/FASHION MANUFACTURING COMPANIES

Discussant: Ahmed Sayem, Sweden

20.30-21.15

Victor Shi, Mary Hafezi, Xuan Zhao

THE IMPACT OF DEVELOPMENT COST IN GREEN
PRODUCT DESIGN

Discussant: Shilei Yang, China

STREAM F (Saal New Orleans)

DSS Models

Chairman: Professor Layek Abdel-Malek, USA

19.00-19.45

Eric H. Grosse, Christoph H. Glock, Jörg M. Ries

DECISION SUPPORT MODELS FOR SUPPLIER
DEVELOPMENT: SYSTEMATIC LITERATURE REVIEW
AND RESEARCH AGENDA

Discussant: Athakorn Kengpol, Thailand

19.45-20.30

**Tero Rantala, Sanna Pekkola, Hannu Rantanen,
Mika Hannula**

EVOLUTION OF OBSTACLES RESTRAINING
PRODUCTIVITY IMPROVEMENT

Discussant: Eric H. Grosse, Germany

20.30-21.15

Athakorn Kengpol, Sopida Tuammee, Ariya Ounsri

DESIGN OF A DECISION SUPPORT FRAMEWORK FOR
ASSESSING CUSTOMER SATISFACTION ON
FUNCTIONAL BEVERAGE FLAVOR NOTES: AN
EMPIRICAL STUDY

Discussant: Tero Rantala, Finland

WEDNESDAY, February 24

STREAM A (Saal Strassburg 1)

PPC and Lotsizing

Chairman: Professor D. Clay Whybark, USA

08.00-08.45

Anders Segerstedt

COVER-TIME PLANNING/TAKT PLANNING: A
TECHNIQUE FOR MATERIALS REQUIREMENT AND
PRODUCTION PLANNING

Discussant: Henny P.G. van Ooijen, The Netherlands

08.45-09.30

**Heidi Carin Dreyer, Iskra Dukovska-Popovska,
Kasper Kiil, Riikka Kaipia**

RETAIL TACTICAL PLANNING: AN ALIGNED
PROCESS?

Discussant: Anders Segerstedt, Sweden

Coffee Break 9.30-10.00

10.00-10.45

Henny P.G. van Ooijen, Anton G. de Kok

QUEUEING BASED PERFORMANCE ANALYSIS OF
TANDEM QUEUES UNDER A LEAD TIME POLICY

Discussant: Klaus Altendorfer, Austria

10.45-11.30

Klaus Altendorfer

INFLUENCE OF LEAD TIME DEPENDENT DEMAND ON
OPTIMAL CAPACITY FLEXIBILITY IN A TWO-STAGE
SUPPLY CHAIN WITH LOST SALES

Discussant: Heidi Carin Dreyer, Norway

STREAM B (Saal Strassburg 2)

Assembly Lines

Chairman: Professor Richard F. Hartl, Austria

08.00-08.45

**Nuno Octávio G. Fernandes, Pedro Coelho,
Cristóvão Silva, S. Carmo-Silva**

WORKLOAD CONTROL WITH CONTINUOUS PULL
AND PUSH RELEASES OF WORK

Discussant: Christoph Müller, Germany

08.45-09.30

Jan Hrdina, Gert Zülch

PROCEDURE FOR CONTROLLING DIVISION OF
LABOUR BASED DISASSEMBLY SYSTEMS

Discussant: Nuno Octávio G. Fernandes, Portugal

Coffee Break 9.30-10.00

10.00-10.45

Takayuki Kataoka, Stefan Minner

A MIXED INTEGER PROGRAMMING MODEL TO
MINIMIZE THE NUMBER OF OPERATORS IN LABOUR-
INTENSIVE MANUFACTURING CELLS

Discussant: Gert Zülch, Germany

10.45-11.30

Christoph Müller, Martin Grunewald, Thomas S. Spengler

REDUNDANT CONFIGURATION OF SERIAL FLOW
LINES WITH FLEXIBLE UNRELIABLE MACHINES

Discussant: Takayuki Kataoka, Japan

STREAM C (Saal Linköping)

Performance Measurement

Chairman: Professor Günter Fandel, Germany

08.00-08.45

Fatma Yasli Kuytu, Bersam Hür Bolat

A CONCEPTUAL FRAMEWORK FOR SUSTAINABLE
MINING SECTOR - EVALUATING AUTOMATION
TECHNOLOGIES AND SAFETY RISK

Discussant: Claus Weidinger, United Kingdom

08.45-09.30

Dilay Çelebi

A CONCEPTUAL FRAMEWORK FOR THE DESIGN AND
USE OF NATIONAL LOGISTICS PERFORMANCE
MANAGEMENT SYSTEMS

Discussant: Hakan Karaosman, Italy

Coffee Break 9.30-10.00

10.00-10.45

Amin Amid, Mahsa Rahimi, Christopher O'Brien

HYBRID FRAMEWORK OF COBIT AND SCOR FOR
ASSESSMENT OF IT SERVICES IMPACT ON
IMPROVEMENT OF A SUPPLY CHAIN PERFORMANCE

Discussant: Fatma Yasli Kuytu, Turkey

10.45-11.30

Kasim Isik, Hans H. Hinterhuber

THE IMPACT OF LONG TERM BUYER-SUPPLIER
RELATIONSHIPS ON THE PERFORMANCE OF THE
COMPANY

Discussant: Judit Uzonyi-Kecskés, Hungary

STREAM A (Saal Strassburg 1)

PPC and Lotsizing

Chairman: Professor D. Clay Whybark, USA

19.00-19.45

**Daria Battini, Christoph H. Glock, Eric H. Grosse,
Alessandro Persona, Fabio Sgarbossa**

AN INTEGRATED APPROACH TO INCLUDE
ERGONOMICS IN LOT-SIZING DECISION

Discussant: Hamidreza Kia, Iran

19.45-20.30

Florian Sahling, Gerd J. Hahn

LOT-SIZING IN BIOPHARMACEUTICAL
MANUFACTURING

Discussant: Fabio Sgarbossa, Italy

20.30-21.15

**Hamidreza Kia, Seyed Hassan Ghodsypour,
Christopher O'Brien**

A HYBRID ALGORITHM FOR SOLVING ECONOMIC
LOT AND DELIVERY SCHEDULING PROBLEMS IN A
THREE-ECHELON SUPPLY CHAIN

Discussant: Gerd J. Hahn, Germany

STREAM B (Saal Strassburg 2)

Supply Chain Management

Chairman: Professor Richard F. Hartl, Austria

19.00-19.45

Tea Vizinger, Janez Zerovnik

TOWARDS BETTER COORDINATION OF A RETAIL
SUPPLY CHAIN DISTRIBUTION FLOW

Discussant: Manuel Herrera, Belgium

19.45-20.30

**Paul Reaidy, Olivier Lavastre, Blandine Ageron,
Ludivine Chaze-Magnan**

INTEGRATION OF CONSUMER WITH SUPPLY CHAIN
OPERATIONS: A SUPPLIER PERSPECTIVE

Discussant: Tea Vizinger, Slovenia

20.30-21.15

**Per J. Agrell, Manuel Herrera,
Casiano Manrique-de-Lara-Peñate, Lourdes Trujillo**

INCORPORATING THE COST OF TIME TO A LINER
SHIP FLEET DEPLOYMENT MODEL: AN APPLICATION
TO THE FAR EAST - USA/EUROPE TRADE FLOWS

Discussant: Paul Reaidy, France

STREAM C (Saal Linköping)

Performance Measurement

Chairman: Professor Krisztina Demeter, Hungary

19.00-19.45

Claus Weidinger, Ken Platts

SETTING AND COMMUNICATING TARGETS IN
PERFORMANCE MEASUREMENT SYSTEMS

Discussant: Mahsa Rahimi, Iran

19.45-20.30

Tamás Koltai, Judit Uzonyi-Kecskés

PERFORMANCE EVALUATION BASED ON DATA
ENVELOPMENT ANALYSIS VERSUS FINANCIAL
ANALYSIS: AN EXAMPLE OF THE EVALUATION OF A
PRODUCTION SIMULATION GAME

Discussant: Dilay Çelebi, Turkey

20.30-21.15

**Hakan Karaosman, Alessandro Brun,
Gustavo Morales-Alonso**

JOINING THE DOTS: SUSTAINABILITY IMPACT ON
OPERATIONAL PERFORMANCE IN LUXURY FASHION
SUPPLY CHAINS

Discussant: Kasim Isik, Austria

WEDNESDAY, February 24

STREAM D (Saal Freiburg 1)
Investment and Financial Planning
Chairman: Professor Ludo Gelders, Belgium

08.00-08.45
Carlo Alberto Magni, Piero Veronese, Rebecca Graziani

CHISINI MEAN AND A UNIFIED APPROACH TO
CAPITAL BUDGETING CRITERIA

Discussant: Simone Gitto, Italy

08.45-09.30
M. Collan, J. Savolainen, Kalevi Kyläheiko, P. Luukka

EXAMINING THE EFFECT OF CAPITAL STRUCTURE
ON THE FLEXIBILITY TO TEMPORARILY SHUT DOWN
METAL MINING INVESTMENTS: EQUITY HOLDER'S
POINT OF VIEW

Discussant: Carlo Alberto Magni, Italy

Coffee Break 9.30-10.00

10.00-10.45
Tomoya Shimizu, Hiroaki Matsukawa, Stefan Minner

AN OPTION BASED SUPPLY CONTRACT WITH
OPTIMIZED OPTION PRICES

Discussant: Kalevi Kyläheiko, Finland

10.45-11.30
Domenico Campisi, Simone Gitto, Donato Morea

THE INTRODUCTION OF LED TECHNOLOGY IN ROME:
A REAL OPTION ANALYSIS

Discussant: Tomoya Shimizu, Japan

STREAM E (Saal Freiburg 2)
Manufacturing Management
Chairman: Dr Lujie Chen, China

08.00-08.45
Shilei Yang, Qin Wan, Yi Liao

CUSTOMERS' CHERRY PICKING AND MOBILE
ACCESSIBILITY ON THE PROFITABILITY OF
RETAILERS

Discussant: M.A.R. Khater, United Kingdom

08.45-09.30
Ahmed Sayem, Andreas Feldmann, Miguel Ortega Mier

EXPLORING THE CONNECTION BETWEEN FAILURES-
IN-OFFSHORING AND RESHORING

Discussant: Roberta Pellegrino, Italy

Coffee Break 9.30-10.00

10.00-10.45
Ralf Gössinger, Sonja Kalkowski

RELIABLE ORDER PROMISING - AN ANALYSIS OF
INTERACTIONS BETWEEN DEMAND- AND SUPPLY-
RELATED MEASURES

Discussant: Anthony Soroka, United Kingdom

10.45-11.30
Thomas Hutter, Stefan Häussler, Hubert Missbauer

SUCCESSFUL IMPLEMENTATION OF AN ORDER
RELEASE MECHANISM BASED ON WORKLOAD
CONTROL: A CASE STUDY OF A MAKE-TO-STOCK
MANUFACTURER

Discussant: Matthias G. Wichmann, Germany

STREAM F (Saal New Orleans)
Product Development
Chairman: Professor John Rowcroft, Canada

08.00-08.45
**Jordan Verrollot, Arto Tolonen, Janne Harkonen,
Harri Haapasalo**

RAPID DEVELOPMENT: CHALLENGES AND
PRECONDITIONS

Discussant: Valeria Belvedere, Italy

08.45-09.30
**Marzieh Shahmarichatghieh, Harri Haapasalo,
Arto Tolonen, Janne Härkönen**
TECHNOLOGIES ARE EVOLVING - PRODUCT
DEVELOPMENT AND SOURCING CHANGES OVER
TECHNOLOGY LIFE CYCLE?

Discussant: Federica Ciccullo, Italy

Coffee Break 9.30-10.00

10.00-10.45
**Arto Tolonen, Jordan Verrollot, Janne Harkonen,
Harri Haapasalo**

DELIVERY CAPABILITY MANAGEMENT -
INTEGRATION OF SUPPLY CHAIN MANAGEMENT
ACTIVITIES ON NEW PRODUCT DEVELOPMENT

Discussant: Mai Ali Aldhaheeri, United Kingdom

10.45-11.30
**Jukka Majava, Kris M.Y. Law, Harri Haapasalo,
Y.C. Chau, Osmo Kauppila**
EXPLORING MANAGERS' VIEWS ON NPD DRIVERS IN
FINLAND AND CHINA

Discussant: Helena Berglund, Belgium

STREAM D (Saal Freiburg 1)

Investment and Financial Planning

Chairman: Professor Ludo Gelders, Belgium

19.00-19.45

Günter Fandel, Jan Trockel, Markus Bauer

INVESTMENTS IN SUPPLIER-SPECIFIC ECONOMIES OF SCOPE WITH TWO DIFFERENT PRODUCTS AND DIFFERENT SUPPLIER CHARACTERS: TWO SPECIALISTS

Discussant: Giovanna Lo Nigro, Italy

19.45-20.30

Veli-Matti Virolainen, Miia Pirttilä, Timo Kärri, Jouko Nikula

THE IMPACT OF REGULATOR INTERVENTIONS IN AUTOMOTIVE VALUE CHAIN POSITIONS - COMPARISON BETWEEN RUSSIAN AND WESTERN BRANDS

Discussant: Günter Fandel, Germany

20.30-21.15

Giovanna Lo Nigro, Azzurra Morreale, Paolo Roma

SHOULD CONFERENCE PRICING MECHANISMS INCORPORATE OPTIONS?

Discussant: Veli-Matti Virolainen, Finland

STREAM E (Saal Freiburg 2)

Innovation Management

Chairman: Professor Ilaria Giannoccaro, Italy

19.00-19.45

Christoph Heitz

OPTIMUM LIFECYCLE MANAGEMENT OF ASSET PORTFOLIOS WITH NON-MONETARY VALUE REALIZATION

Discussant: Bernd Hillebrand, Germany

19.45-20.30

W.W. Tiddens, A.J.J. Braaksma, T. Tinga

TOWARDS INFORMED MAINTENANCE DECISION MAKING: IDENTIFYING AND MAPPING SUCCESSFUL DIAGNOSTIC AND PROGNOSTIC ROUTES

Discussant: Christoph Heitz, Switzerland

20.30-21.15

Bernd Hillebrand, Grigory Pishchulov

THE EFFECT OF PRODUCT MIX ON FACILITY LAYOUT DECISIONS AND COSTS

Discussant: W.W. Tiddens, The Netherlands

STREAM F (Saal New Orleans)

Product Development

Chairman: Professor John Rowcroft, Canada

19.00-19.45

Valeria Belvedere, Gaetano Carrone, Francesco Cuttaia, Monica Rossi, Luca Stringhetti

MAPPING WASTES IN COMPLEX PROJECTS FOR LEAN NEW PRODUCT DEVELOPMENT: EVIDENCE FROM THE ASTROPHYSICAL SECTOR

Discussant: Arto Tolonen, Finland

19.45-20.30

Federica Ciccullo, Maria Caridi, Margherita Pero, Andrea Sianesi

IN SEARCH OF SUSTAINABLE SUPPLY CHAIN STRATEGY DEPLOYMENT FRAMEWORK: CASES ALONG THE FURNITURE INDUSTRY SUPPLY CHAIN

Discussant: Jukka Majava, Finland

WEDNESDAY, February 24

STREAM G (Saal Aalborg)

Professor Denis R. Towill in Memoriam

Chairman: Professor Ou Tang, Sweden

08.00-08.45

Virginia L.M. Spiegler, Mohamed M. Naim,

Aris A. Syntetos

ON THE ANALYSIS OF LEAD-TIME DISTURBANCES IN
PRODUCTION AND INVENTORY CONTROL MODELS

Discussant: Joakim Wikner, Sweden

08.45-09.30

Junyi Lin, Mohamed M. Naim, Laura Purvis, J. Gosling

THE EXTENSION AND EXPLOITATION OF THE
INVENTORY AND ORDER BASED PRODUCTION
CONTROL SYSTEM ARCHETYPE FROM 1982-2015

Discussant: Thomas S. Spengler, Germany

Coffee Break 9.30-10.00

10.00-10.45

Li Zhou, Mohamed M. Naim, Stephen M. Disney

DYNAMIC PERFORMANCE OF A THREE-ECHELON
CLOSED-LOOP SUPPLY CHAIN WITH A KANBAN
POLICY IN REMANUFACTURING PROCESS

Discussant: Tim Gruchmann, Germany

10.45-11.30

Joakim Wikner, Mohamed M. Naim, Virginia

L. M. Spiegler

IOBPCS BASED MODELS AND THE CUSTOMER ORDER
DECOUPLING POINT

Discussant: Li Zhou, United Kingdom

STREAM G (Saal Aalborg)

Professor Denis R. Towill in Memoriam

Chairman: Professor Mohamed M. Naim, United Kingdom

19.00-19.45

Tim Gruchmann

MANAGING SCHEDULE INSTABILITY IN ASSEMBLY
NETWORK SUPPLY CHAINS: AN EXTENSION OF THE
JOINT ECONOMIC LOT SIZE MODEL

Discussant: Junyi Lin, United Kingdom

19.45-20.30

Jihee Kim, Stephen Pettit, Irina Harris, Anthony Beresford

AN EXPLORATION OF HUMANITARIAN AND
DISASTER RELIEF SUPPLY CHAIN INTEGRATION
(HDR-SCI) FOR DIFFERENT TYPES OF AID
ORGANISATION

Discussant: Renzo Akkerman, Germany

20.30-21.15

Maneesh Kumar, Irina Harris

SUPPLY CHAIN DIAGNOSTIC IN THE UK SME:
MANAGING CHANGE EFFECTIVELY

Discussant: Jordan Verrollot, Finland

THURSDAY, February 25

STREAM A (Saal Strassburg 1)

PPC and Lotsizing

Chairman: Professor Attila Chikán, Hungary

08.00-08.45

**Karen Puttkammer, Matthias G. Wichmann,
Thomas S. Spengler**

THE RESIZING KNAPSACK PROBLEM

Discussant: Ilaria Giannoccaro, Italy

08.45-09.30

**Massim Bertolini, Gionata Carmignani,
Francesco Zammori**

**PROJECT SCHEDULING WITH MULTI SKILLED
RESOURCES: A CONCEPTUAL FRAMEWORK**

Discussant: Regina Wagner, Germany

Coffee Break 9.30-10.00

10.00-10.45

**Violetta Giada Cannas, Federica Ciccullo, Margherita
Pero, Giovanni Pirovano, Andrea Sianesi, Daniele Pagano,
Sergio Spampinato, Armando Spanò, Concetta Cantone,
Emanuele Ragusa**

**FORECASTING CYCLE TIMES IN SEMICONDUCTOR
MANUFACTURING WITH QUEUING NETWORK
THEORY**

Discussant: Francesco Zammori, Italy

10.45-11.30

Regina Wagner, Thorsten Blecker

**FORECASTING FINAL LOT SIZE FOR PHASE-OUT
SPARE PARTS**

Discussant: Emanuele Borgonovo, Italy

STREAM B (Saal Strassburg 2)

Supply Chain Management

Chairman: Professor Dilay Çelebi, Turkey

08.00-08.45

Peter O'Neill, Alka Nand, Yolanda Carreno

**BIG DATA, ANALYTICS AND PRODUCTIVITY IN
PHARMACY SUPPLY CHAINS**

Discussant: Chen Xiang, Italy

08.45-09.30

**Mikko Pynnönen, Mika Immonen, Jukka Hallikas,
Karri Mikkonen**

**VALUE CREATION LOGIC OF THE INTEGRATED B2B
SOLUTIONS: AN EMPIRICAL STUDY IN THE
NETWORK MAINTENANCE SERVICES**

Discussant: Peter O'Neill, Australia

Coffee Break 9.30-10.00

10.00-10.45

Chen Xiang, Matteo Mario Savino, Vincenzo Della Selva

**STRATEGIC ALIGNMENT AND INFORMATION
TECHNOLOGIES IN THE SUPPLY CHAIN**

Discussant: Mikko Pynnönen, Finland

10.45-11.30

Ying Kei Tse, Minhao Zhang, Kim Hua Tan, Yuji Sato

**UNDERSTANDING THE PERCEPTION OF SUPPLY
CHAIN QUALITY RISK: THE MODERATION EFFECT OF
SUPPLY CHAIN POSITION AND MARKET THINNESS**

Discussant: Huiping Ding, China

STREAM C (Saal Linköping)

Scheduling

Chairman: Professor Per J. Agrell, Belgium

08.00-08.45

Babak Hoseini, Wenbo Cai, Layek Abdel-Malek

**IMPROVING THE PRIMARY CARE PERFORMANCE
USING STOCHASTIC CARVE-OUT SCHEDULING**

Discussant: Xavier Delorme, France

08.45-09.30

Maria Caridi, Margherita Pero

**THE DETERMINANTS OF THE POSITION OF
ENGINEERING DECOUPLING POINT: A SIMULATION
STUDY**

Discussant: Karen Moons, Belgium

Coffee Break 9.30-10.00

10.00-10.45

Christian Serrano, Xavier Delorme, Alexandre Dolgui

**SCHEDULING OF INBOUND TRUCK ARRIVALS AND
SHOP-FLOOR OPERATION IN A CROSS-DOCK
PLATFORM, BASED ON OUTBOUND TRUCKS
LOADING PLAN**

Discussant: Rifat Gürçan Özdemir, Turkey

10.45-11.30

Roman Bartnik, Thomas Staebelin, Katsuki Aoki

**HOW DOES FIRM CONTEXT INFLUENCE
AUTOMOTIVE ORDER FULFILMENT? A STRUCTURED
REVIEW OF CURRENT KNOWLEDGE**

Discussant: Mikael Öhman, Finland

STREAM A (Saal Strassburg 1)

PPC and Lotsizing

Chairman: Professor Attila Chikán, Hungary

19.00-19.45

Ilario De Vincenzo, Ilaria Giannoccaro, Giuseppe Carbone

**MIMICKING HUMAN GROUPS IN SOLVING
OPTIMIZATION PROBLEMS**

Discussant: Violetta Giada Cannas, Italy

19.45-20.30

Emanuele Borgonovo, G. Buzzard, R. Wendell

INTEGRAL SENSITIVITY IN LINEAR PROGRAMMING

Discussant: Karen Puttkammer, Germany

STREAM B (Saal Strassburg 2)

Supply Chain Management

Chairman: Professor Dilay Çelebi, Turkey

19.00-19.45

Per J. Agrell, Johan Lundin, Andreas Norrman

**CARRIER MARKET COORDINATION THROUGH
COOPERATIVE GOVERNANCE STRUCTURES**

Discussant: Minhao Zhang, United Kingdom

19.45-20.30

Huiping Ding, Li Wang, Qilan Zhao

**COLLABORATIVE MECHANISM OF PROFIT
ALLOTMENT IN AN ENVIRONMENTALLY
CONSTRAINED SUSTAINABLE SUPPLY CHAIN**

Discussant: Per J. Agrell, Belgium

STREAM C (Saal Linköping)

Scheduling

Chairman: Professor Stefan Minner, Germany

19.00-19.45

Mikael Öhman, Mikko Laine, Jan Holmström

**AIRCRAFT FLEET MAINTENANCE SCHEDULING:
HEURISTICS FOR WORKLOAD BALANCING**

Discussant: Aris Syntetos, United Kingdom

THURSDAY, February 25

STREAM D (Saal Freiburg 1)
General Production Economics
Chairman: Professor Fabio Sgarbossa, Italy

08.00-08.45
Sania Nawaz, Vincenzo Della Selva

BUSINESS SUSTAINABILITY AND ITS POSSIBLE
DIMENSION: A LITERATURE REVIEW

Discussant: Juhani Ukko, Finland

08.45-09.30
Tommi Mahlamäki, Mika Ojala, Mikko Myllykangas

VALUE COMPONENTS OF A DIGITAL BUSINESS-TO-
BUSINESS SALES CONFIGURATOR

Discussant: Azzurra Morreale, Finland

Coffee Break 9.30-10.00

10.00-10.45
**Azzurra Morreale, Jan Stoklasa, Mikael Collan,
Giovanna Lo Nigro, Tomáš Talášek**
THE EFFECT OF MULTIPLE POSSIBLE OUTCOMES
REPRESENTATION ON MANAGERIAL DECISION-
MAKING UNDER UNCERTAINTY: AN EXPLORATORY
SURVEY

Discussant: Giuseppe Carbone, Italy

10.45-11.30
**Lujie Chen, Xiande Zhao, Ou Tang, Lydia Price,
Shanshan Zhang, Wenwen Zhu**
SUPPLY CHAIN COLLABORATION FOR
SUSTAINABILITY: A LITERATURE REVIEW AND
FUTURE RESEARCH AGENDA

Discussant: Sania Nawaz, Italy

STREAM E (Saal Freiburg 2)
Energy Management
Chairman: Professor Marija Bogataj, Slovenia

08.00-08.45
**Davide Aloini, Riccardo Dulmin, Valeria Mininno, Marco
Raugi, Daniele Testi, Mauro Tucci**
INVESTMENT EVALUATION UNDER MULTIPLE
UNCERTAINTY: SIZING AND CONFIGURATION OF AN
INTEGRATED ENERGY PRODUCTION SYSTEM BY
RENEWABLE SOURCES
Discussant: Ou Tang, Sweden

08.45-09.30
**Beatrice Marchi, Simone Zanoni, I. Ferretti,
Lucio E. Zavanella**
LEARNING CURVES IN ENERGY EFFICIENCY
INVESTMENTS: THE EFFECTS OF SUPPLY CHAIN
INTEGRATION
Discussant: Giovanni Miragliotta, Italy

Coffee Break 9.30-10.00

10.00-10.45
Fadi Shrouf, Giovanni Miragliotta, Joaquin Ordieres-Meré
ADOPTING INTERNET OF THINGS TECHNOLOGIES
FOR MANUFACTURING ENERGY EFFICIENCY: A
METHODOLOGY AND CASE STUDY
Discussant: Davide Aloini, Italy

10.45-11.30
Ou Tang, Jakob Rehme
AN INTEGRATED SYSTEM DYNAMICS MODEL FOR
SWEDISH ELECTRICITY ENERGY SYSTEM
Discussant: Lucio E. Zavanella, Italy

STREAM F (Saal New Orleans)
Additive Manufacturing
Chairman: Professor Peter Kelle, USA

08.00-08.45
**Daniel Eyers, Mohamed M. Naim, Andrew Potter,
Jonathan Gosling**
OVERCOMING THE FLEXIBILITY-COST DICHOTOMY
THROUGH INDUSTRIAL ADDITIVE MANUFACTURING
SYSTEMS (IAMS)
Discussant: Simone Zanoni, Italy

08.45-09.30
Richard F. Hartl, Peter M. Kort
POSSIBLE MARKET ENTRY OF A FIRM WITH AN
ADDITIVE MANUFACTURING TECHNOLOGY
Discussant: Yuji Sato, Japan

Coffee Break 9.30-10.00

10.00-10.45
Ibrahim Kucukkoc, Qiang Li, David Z. Zhang
INCREASING THE UTILISATION OF ADDITIVE
MANUFACTURING AND 3D PRINTING MACHINES
CONSIDERING ORDER DELIVERY TIMES
Discussant: Mohamed M. Naim, United Kingdom

10.45-11.30
**Milad Ashour Pour, Simone Zanoni, Andrea Bacchetti,
Massimo Zanardini, Marco Perona**
ADDITIVE MANUFACTURING SUPPLY CHAIN:
MODELING AND PERFORMANCE EVALUATION
Discussant: Richard F. Hartl, Austria

STREAM D (Saal Freiburg 1)

General Production Economics

Chairman: Professor Lucio E. Zavanella, Italy

19.00-19.45

Minna Saunila, Tero Rantala, Juhani Ukko

THE IMPACT OF TECHNOLOGICAL,
ORGANIZATIONAL AND SERVICE CHARACTERISTICS
ON CUSTOMER VALUE CREATION IN THE DIGITAL
ECONOMY

Discussant: Lujie Chen, China

19.45-20.30

Ilaria Giannoccaro, Giuseppe Carbone

AN ISING-BASED DYNAMIC MODEL OF FIRM
ABSORPTIVE CAPACITY

Discussant: Tommi Mahlamäki, Finland

STREAM E (Saal Freiburg 2)

Scheduling

Chairman: Professor Lorenzo Ros McDonnell, Spain

19.00-19.45

Rifat Gürçan Özdemir, Beyza Keydal, Tuba Erdem

A NEIGHBORHOOD SEARCH ALGORITHM FOR
SCHEDULING A FILLING LINE WITH SEQUENCE
DEPENDENT SETUP TIMES

Discussant: Thomas Staeblein, Germany

19.45-20.30

**Karen Moons, Helena Berglund, Valerie De Langhe,
Katrien Kimpe, Liliane Pintelon, Geert Waeyenbergh**

OPTIMIZATION OF OPERATIONS BY SIMULATION - A
CASE STUDY AT THE RED CROSS FLANDERS

Discussant: Marzieh Shahmarichatghieh, Finland

STREAM F (Saal New Orleans)

Additive Manufacturing

Chairman: Professor Giovanna Lo Nigro, Italy

19.00-19.45

**Ville Eloranta, Taija Turunen, Tapio Melgin,
Esko Hakanen, Pekka Töytäri, Risto Rajala**

STRATEGIC PERSPECTIVES OF INDUSTRIE 4.0 AND
INDUSTRIAL INTERNET

Discussant: Domenico Campisi, Italy

19.45-20.30

Yuji Sato, Kim Hua Tan, Ying Kei Tse

PERFORMANCE ANALYSIS OF INDUSTRIAL
PRODUCTS: A CASE OF EFFLUENT PROCESSING
FACILITY IN A CHEMICAL COMPANY

Discussant: Ville Eloranta, Finland

FRIDAY, February 26

**STREAM A (Saal Strassburg 1)
PPC and Lotsizing**

Chairman: Professor Li Zhou, United Kingdom

08.00-08.45

Corentin Pinson, H. Murat Afsar, Caroline Prodhon

METAHEURISTIC APPROACHES FOR
GENERALIZED DIAL-A-RIDE PROBLEM APPLIED
TO RIDE SHARING

Discussant: Marija Bogataj, Slovenia

08.45-09.30

Chiara Verbano, Maria Crema, Francesco Nicosia

PLANNING AND CONTROLLING HEALTHCARE
PROCESSES THROUGH VISUAL MANAGEMENT
SYSTEM

Discussant: H. Murat Afsar, France

Coffee Break 9.30-10.00

10.00-10.45

**David Bogataj, Lorenzo Ros McDonnell,
Marija Bogataj**

INTERNET-OF-THINGS AS AN INFRASTRUCTURE
FOR MONITORING AND THE OPTIMAL CONTROL
OF RISKS IN RETARDED SUPPLY SYSTEMS OF
PERISHABLE GOODS

Discussant: Maria Crema, Italy

**STREAM B (Saal Strassburg 2)
Supply Chain Management**

Chairman: Professor Pamela Ritchie, Canada

08.00-08.45

Norihito Seki

EFFECTS OF HUMAN COMMUNICATION ON THE
PROMOTION OF AN INFORMATION SYSTEM THAT
INTERMEDIATES BUSINESS LOGISTICS: CASE OF THE
JAPAN LOCAL NETWORK SYSTEM

Discussant: Imre Dobos, Hungary

08.45-09.30

**Daria Battini, Ilaria Isolan, Alessandro Persona,
Fabio Sgarbossa, Valentina Visentin**

SUSTAINABLE PURCHASING AND TRANSPORTATION
IN A GLOBAL SUPPLY CHAIN SCENARIO UNDER A CAP
AND TRADE SYSTEM

Discussant: Norihito Seki, Japan

Coffee Break 9.30-10.00

10.00-10.45

Erik Bajalinov, Imre Dobos, Duleba Szabolcs

BUSINESS CRISIS PREDICTION IN SUPPLY CHAINS
WITH DEA-TYPE MODELS

Discussant: Daria Battini, Italy

**STREAM C (Saal Linköping)
Scheduling**

Chairman: Professor William G Ferrell, Jr, USA

08.00-08.45

**Lorenzo Ros McDonnell, Maria Victoria de-la-Fuente,
Norina Szander**

AN APPROXIMATE ALGORITHM FOR OPTIMAL HOME
CARE SCHEDULE

Discussant: Srisatja Vitayasak, Thailand

08.45-09.30

Sai Jishna Pulluru, Renzo Akkerman

WATER REUSE CONSIDERATIONS IN SCHEDULING
MULTIPURPOSE BATCH PLANTS: MODELING
APPROACH AND ANALYSIS OF REGENERATION
OPTIONS

Discussant: Lorenzo Ros McDonnell, Spain

Coffee Break 9.30-10.00

10.00-10.45

**Saisumpan Sooncharoen, Srisatja Vitayasak,
Pupong Pongcharoen, Chris Hicks**

MODIFIED BIOGEOGRAPHY-BASED OPTIMISATION OF
FACILITY LAYOUT DESIGN PROBLEM IN MULTI-ROW
CONFIGURATION

Discussant: Sai Jishna Pulluru, Germany

10.45-12.00

CLOSING SESSION (Saal Brüssel)

Chairman: Professor Robert W. Grubbström, Sweden

Panel reporting highlights from the presentation of papers

FRIDAY, February 26

STREAM D (Saal Freiburg 1)
General Production Economics
Chairman: Professor Gert Zülch, Germany

08.00-08.45

**Alexander Trautrim, Bartholomew L. MacCarthy,
Chetan Okade**

BUILDING AN INNOVATION-BASED SUPPLIER
PORTFOLIO: THE USE OF PATENT ANALYSIS IN
STRATEGIC SUPPLIER SELECTION IN THE
AUTOMOTIVE SECTOR

Discussant: Kasper Kiil, Norway

08.45-09.30

**Monique M.J.C. van Kempen, Alberto Martinetti,
Leo A.M. van Dongen**

"I'LL BE BACK": A DEEP ANALYSIS ON MASS
PRODUCT RECALLS OF NON-FOOD PRODUCTS

Discussant: Alexander Trautrim, United Kingdom

Coffee Break 9.30-10.00

10.00-10.45

**Kasper Kiil, Lukas Chabada, Heidi C. Dreyer,
Hans-Henrik Hvolby**

THE VALUE OF INFORMATION SHARING FOR
RETAIL STORES: A MULTIPLE CASE STUDY FROM
A FOOD SUPPLY CHAIN

Discussant: Monique M.J.C. van Kempen, The Netherlands

STREAM E (Saal Freiburg 2)
Assembly Lines
Chairman: Professor Markku Tuominen, Finland

08.00-08.45

**Daria Battini, Martina Calzavara, Sara Mazzon,
Alessandro Persona, Fabio Sgarbossa**

BALANCING ASSEMBLY LINE AND PART PICKING AT
ONCE TO ACHIEVE ECONOMIC GAINS IN ASSEMBLY
SYSTEM MANAGEMENT

Discussant: Martin Romauch, Austria

08.45-09.30

Martin Romauch, Richard F. Hartl

CAPACITY PLANNING FOR CLUSTER TOOLS IN THE
SEMICONDUCTOR INDUSTRY

Discussant: Ilenia Zennaro, Italy

Coffee Break 9.30-10.00

10.00-10.45

Margaretha Gansterer, Richard F. Hartl

COMPARING SOLUTION METHODS FOR THE SIMPLE
ASSEMBLY LINE BALANCING PROBLEM WITH A
LIMITED NUMBER OF MACHINE TYPES

Discussant: Martina Calzavara, Italy

STREAM F (Saal New Orleans)
Innovation Management
Chairman: Professor Stefan Minner, Germany

08.00-08.45

**Karen Moons, Geert Waeyenbergh, Liliane Pintelon,
Luc Calluy, Joël Bijmens**

STIMULATING INNOVATION THROUGH PROJECTS IN
ENGINEERING EDUCATION - A CASE STUDY IN
INLAND WATERWAY NAVIGATION

Discussant: Anna Aminoff, Finland

08.45-09.30

Hing Kai Chan, Rachel W.Y. Yee, Jing Dai, Ming K. Lim

THE EFFECT OF REGULATORY PRESSURES AND
ENVIRONMENTAL DYNAMISM ON GREEN PRODUCT
INNOVATION AND PERFORMANCE

Discussant: Geert Waeyenbergh, Belgium

Coffee Break 9.30-10.00

10.00-10.45

Anna Aminoff, Riikka Kaipia, Matti Pihlajamaa

SUPPLIER INNOVATION MANAGEMENT -ENHANCING
INNOVATIONS BY SUPPLIER EVALUATION AND
CUSTOMER ATTRACTION DIMENSIONS

Discussant: Andreas Norrman, Sweden

10.45-12.00

CLOSING SESSION (Saal Brüssel)

Chairman: Professor Robert W. Grubbström, Sweden

Panel reporting highlights from the presentation of papers

LIST OF PARTICIPANTS

LIST OF PARTICIPANTS

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