



The Knowledge Network

**International Conference on  
Agile Manufacturing (ICAM 2007)  
9 – 11 July 2007, Durham University, Durham, UK**

**Monday, 9 July 2007**

- 09.30 – 11.00 hrs      Registration/Refreshments**
- 11.00 – 11.30 hrs      Chairman's Welcome**  
**Dr Peter Matthews**  
Durham University, UK
- Professor Hans Andersin**  
Helsinki University of Technology, Finland
- 11.30 – 12.30 hrs      Keynote Address**  
**Professor P John Clarkson**  
Professor of Engineering Design and Director, Cambridge Engineering Design Centre  
Cambridge University, UK
- 12.30 – 13.30 hrs      Lunch**
- 13.30 – 15.10 hrs      Session 1: Product Development**  
Chair: Dr Peter Matthews  
*Durham University, UK*
- Exploring the Application of New Data Collection Tools and Techniques in the  
Development of Cost Models**  
Y Delgado Arvelo, D J Stockton  
*De Montfort University, UK*
- Evaluation and Optimisation of Errors in the Reverse Engineering Process: A  
Case Study**  
G M Lecrivain, I Kennedy, A Slaouti  
*Manchester Metropolitan University, UK*
- Meta-Design for Agile Concurrent Product Design in the Virtual Enterprise**  
C D W Lomas, P C Matthews  
*Durham University, UK*
- New Product Development: Implementing Procedures for Sustainable Product  
Development in SMEs Utilising Available Technologies**  
U Woy, *Dyer Engineering Ltd, UK*  
Q Wang, *Durham University, UK*
- 15.10 – 15.45 hrs      Refreshments**
- 15.45 – 17.25 hrs      Session 2: Manufacturing Systems**  
Chair: Dr Qing Wang  
*Durham University, UK*

**Streamlining the Order-Delivery Process with a Framework for Improving Manufacturing Systems**

M Koho, *Tampere University of Technology*, Finland

**Ready Configuration of Machines into an Existing Manufacturing System**

W Covanich, D McFarlane, J Brusey, A M Farid  
*University of Cambridge*, UK

**Modularization and Simulation-Based Optimization of Work Piece Handling in Manufacturing Cells**

J Fleischer, J Wieser  
*Universität Karlsruhe*, Germany

**Case Study: Time Based Benefits of Agile Assembly Lines Compared to Assembly in a Group of Cells**

P Syvänen, J Hytönen,  
*Helsinki University of Technology*, Finland  
V Toivonen, *Tampere University of Technology*, Finland

17.25 hrs

**Close**

**Tuesday, 10 July 2007**

- 09.25 – 10.10 hrs**     **Keynote Address**  
**Keith Copeland**  
Supplier Improvement Engineer and Engineering Fellow  
Nissan, UK
- 10.10 – 10.45 hrs**     **Refreshments**
- 10.45 – 12.00 hrs**     **Session 3: Social and Human Aspects**  
Chair: Dr Graham Coates  
*Durham University, UK*
- Flexible Manufacturing Systems Need Flexible People – But How Do You Recruit, Manage and Develop Them?**  
A Parker, S A Vanson  
*The Performance Solution Ltd, UK*
- Empirical Management of Engineering Projects: A Common Sense Approach to Agility**  
E O Green, *Advanced Micro Devices, Singapore*
- Examining the Relationships Between Manufacturing Agility and Cooperation, Competition and Conflict**  
C A Yauch, *Milwaukee School of Engineering, USA*  
D O Navarrese, *Oklahoma State University, USA*
- 12.00 – 13.00 hrs**     **Lunch**
- 13.00 – 14.15 hrs**     **Session 4: Agile Supply Chain**  
Chair: Professor Hans Andersin  
*Helsinki University of Technology, Finland*
- An Analysis of Frameworks for Measuring Supply Chain Agility**  
H E Zsifkovits, C Engelhardt-Nowitzki  
*University of Leoben, Austria*
- Supply Chain Agility – Managing the Consequences of Increased Vulnerability**  
J Hammant, *LCP Consulting, UK*  
A Braithwaite, *LCP Consulting/Cranfield University, UK*
- Manufacturers' Preparedness for Agile Construction**  
J Gosling, M M Naim  
*Cardiff Business School, UK*  
N Fowler, *Centre for Performance Improvement/Denne Construction, UK*  
A Fearn, *Kent Business School, UK*
- 14.15 – 14.45 hrs**     **Refreshments**
- 14.45 – 16.50 hrs**     **Session 5: Product Flow**  
Chair: Dr Charlene Yauch  
*Milwaukee School of Engineering, USA*
- Integrated Unit Load and Transport System Design in Manufacturing**  
J Oser, *Graz University of Technology, Austria*

**Using Discrete Element Simulation to Design and Evolve Agile Manufacturing Systems in an SME**

T Patterson, *University of Leeds*, UK

K W Dalgarno, *Newcastle University*, UK

**Insights into Lean Manufacturing from Complex Systems Measures**

N A Scott, *Linx Printing Technologies*, UK

G Frizelle, *University of Cambridge*, UK

J H Johnson, *The Open University*, UK

**Dynamic Job-Shop Lean Scheduling and CONWIP Shop-Floor Control Using Software Agents**

T C Papadopoulou, A Mousavi

*Brunel University*, UK

**Value Stream Mapping in a Jobshop**

R Chitturi, A Paulls

*University of Hull*, UK

D Glew, *Eltherington Aluminium Ltd*, UK

**16.50 hrs**

**Close**

**19.30 hrs**

**Pre- Dinner Drinks**

***Durham Castle***

**20.00 hrs**

**Conference Dinner**

***Durham Castle***

**Wednesday, 11 July 2007**

**09.25 – 10.40 hrs**

**Session 6: Lean**

Chair: Professor Valentin Vitanov  
*Durham University, UK*

**Defining the Foundation of Lean Manufacturing in the Context of its Origins (Japan)**

C Herron, *One NorthEast, UK*  
P H Braiden, *Newcastle University, UK*

**A Lean Production Strategy for Hot Charge Operation of a Steel Mill**

J Storck, *Dalarna University, Sweden*  
B Lindberg, *Royal Institute of Technology, Sweden*

**Lean Conversion and Genba Shikumi**

N A Scott, *Linx Printing Technologies, UK*

**10.40 – 11.15 hrs**

**Refreshments**

**11.15 – 12.55 hrs**

**Session 7: Supply Chain Support**

Chair: Dr Helmut Zsifkovits  
*University of Leoben, Austria*

**Using Item-Attendant Information and Communication Technologies to Improve Supply Chain Visibility**

J L Griffiths, K A Osman  
*University of Central England, UK*  
A Phelan, *University of Worcester, UK*  
A Furness, *European Centre for Automatic Identification and Data Capture, UK*

**Agile Manufacturing in the Cladding Industry**

T Qaqish, R Fitch  
*PSP Ltd, UK*  
P Tavner, *Durham University, UK*

**A Conceptual Case Based Model Supporting a SME's Strategic Supply Chain Decision**

C Wang, C Fergusson  
*Glasgow Caledonian University, UK*

**The Strategic Purchasing at the Component Level for an Elevator Manufacturer**

D M Lee, P R Drake, M Hussain  
*University of Liverpool Management School, UK*

**12.55 – 13.55 hrs**

**Lunch**

**13.55 – 15.35 hrs**

**Session 8: Agile Corporate Strategy**

Chair: Eric Green  
*Advanced Micro Devices, Singapore*

**Stochastic Based Pre-Emptive Planning and Scheduling**

P C Matthews, G Coates  
*Durham University, UK*

**Qualitative Examination of How Agility and Agile Manufacturing Fit with Traditional Strategy and the Triz Framework**

M Hetherington, H S Ismail  
*University of Liverpool, UK*

**Cost-Effective Agility in the Manufacture of Low Volume High Mix Products**

T A Gaskell, *Cambridge Broadband Networks Ltd, UK*

**Rush into Agile – Analytical Framework For Agile Practices Applicability**

I Krasteva, S Ilieva  
*University of Sofia, Bulgaria*

**15.35 – 16.00 hrs**

**Chairman's Closing Remarks**

Dr Peter Matthews  
*Durham University, UK*

**16.00 hrs**

**Close of Conference**