

Arrival Day, Tuesday 25th of October 2016

13.00 - 14.00	Registration opens
14.00	Bus leaves from Elite Hotel Ideon, Scheelevägen 27
14.00 - 17.30	Visit at Max IV and ESS
19.00 - 22.00	Food and beverages at Café Bryggan, Ingvar Kamprads Design Center (IKDC) on LTH campus, Sölvegatan 26

Conference Day 1, Wednesday 26th of October 2016

08.00	Registration opens					
09.00 - 09.30	Welcome & Introduction (Room: TERA)					
09.30 - 10.00	Keynote Speaker 1 - Daniel Wäppling, ABB (Room: TERA)					
10.00 - 10.30	Refreshments					
Parallel sessions	A. Integrated Product & Production development	B. Business models, Strategic enterprise planning	C. Manufacturing Processes	F. Manufacturing Processes	E. Automation and Machine Tools	D. Manufacturing Processes
Room	TERA	GIGA	MEGA	MIKRO	HEKTO	KILO
Chair	Erik Sundin	Björn Johansson	BG Rosén	Lihui Wang	Anna Öhrwall Rönnbäck	Fredrik Sikström
10.30 - 11.00	Automatic in-line inspection of shape based on photogrammetry <i>M. Sjö Dahl et al, LTU</i>	Towards core plant excellence - Prerequisites and challenges with the core plant role <i>G. Nanda et al, JU</i>	Influence of radial depth of cut on dynamics of face milling application <i>A. Agic et al, Seco Tools</i>	Effect of cutting edge radius on surface roughness and tool wear in hard turning of 100Cr6 bearing steel <i>T. Zhao et al, LU</i>	Automation Practices in Wood Product Industries: Lessons learned, current Practices and Future Perspectives <i>S. Landscheidt et al, Lnu</i>	A review of the effect of selective laser melting process parameters and its influence on microstructure, defects and strength in the Ni-base superalloy <i>T. Raza et al., UW</i>
11.00 - 11.30	Investigation of multi-axis system static and kinematic characteristics <i>T. Laspas et al, KTH</i>	Location Independent Manufacturing – Case: A Manufacturing company competitiveness in changing business environment. <i>M. Peltokoski et al, LU of T</i>	Analysis of gear measurement to solve noise problems in gear boxes <i>G. Gravel, HAW Hamburg</i>	High Capacity Production of Microchannel Products <i>M. Lohtander et al, LU of T</i>	Automation in the wood product industry: challenges and opportunities <i>R. Salim et al, JU</i>	Inductive temperature measurement principles for industrial induction heating applications <i>V. Akujärvi et al, LU</i>
11.30 - 12.00	Early stage assessment of the inspectability of welded components. – A case from the aerospace industry. <i>R. Stolt, JU</i>	Manufacturing reshoring and offshoring: strategy and performance outcomes <i>M. Johansson et al, LU</i>	Variation of Machinability in Cold Age Strengthened Gray Cast Iron <i>D. Johansson et al, LU</i>	Detectability of various machining conditions by using internal encoder signals <i>J. Repo et al, UW</i>	Production of customized and standardized single family timber houses – A comparative study on levels of automation <i>D. Popovic et al., JU</i>	Coatings by Suspension-Powder Hybrid Plasma Spraying <i>S. Goel et al, UW</i>
12.00 - 12.30	Quantification of the Tolerance Cost as Part of the Product Realization Process <i>F. Schultheiss et al, LU</i>	Analysis of the potential of assessing sustainable production with a cost model <i>C. Windmark et al, LU</i>	Selection of chatter-free milling conditions using vibration frequency measurements <i>M. Eynian, UW</i>		An integrated cost model for metal cutting operations based on engagement time and a cost breakdown approach <i>J-E. Ståhl, LU</i>	Monitoring thermal cycles in multi-pass welding <i>M. A. Valiente Bermejo et al, UW</i>
12.30 - 13.30	Lunch					
Chair	Anders Robertsson	Mats Winroth	Mats Andersson	Jan-Eric Ståhl	Peter Almström	Per Nylén
13.30 - 14.00	Joint tracking in zero gap laser beam welding using a vision sensor <i>M. Nilsen et al, UW</i>	Performance indicators at different organizational levels in manufacturing companies <i>A. Landström et al, Chalmers</i>	Welding of ultra-high strength armor steel with electron beam and metal active gas processes <i>M. Areskog, KTH</i>	Surface characterization of additively manufactured Al10SiMg thin-walled structures <i>A. R. Zekavat et al, ÖU</i>	SMEs and the selling of problem-solving <i>M. Tynnhamar, LTU</i>	Inline Process Control – a concept study of efficient inline process control and process adjustment with respect to product geometry <i>A. Andersson et al, Volvo CC</i>
14.00 - 14.30	Energy Consumption Model for 2D-Belt Robots <i>E. Glorieux et al, UW</i>	Relationship between management accounting principles, production processes, and performance measures <i>A. Myrelid, GKN</i>	Product- and knowledge centric Additive Manufacturing research in Sweden <i>L. Pejryd et al, ÖU</i>	Lead Free Brass - Topography Characterization <i>V. Reddy et al, HU</i>	An IT-platform prototype as enabler for service-based business models in manufacturing industry <i>M. Lieder et al, KTH</i>	Variation Analysis in Fixtures for Sheet Metal Assembly Processes <i>I. Tomasic et al, MDH</i>
14.30 - 15.00	Gesture Recognition for Human Robot Collaboration: A Review <i>H. Liu et al, KTH</i>	Obstacles to continuous improvement of process flow improvements in healthcare <i>T. Jacobsson, Chalmers</i>	Characterization of virgin and recycled 316L powder used in additive manufacturing <i>A. Leicht et al, Chalmers</i>	Analysis and characterization of machined surfaces with aesthetic functionality <i>F. Biondani et al, DTU</i>	Benefits and Challenges for European Remanufacturing Companies <i>E. Sundin, LIU</i>	The influence of contact conditions and process dynamics on friction in sheet metal forming <i>L. Kirkhorn et al, LU</i>
15.00 - 15.30	Refreshments					
Chair	Johan Stahre	Jan Olhager	Torbjörn Ilar	Carin Andersson	Mats Björkman	Volodymyr Bushlya
15.30 - 16.00	Evaluating environmental impacts of production process by simulation based life cycle assessment <i>Y. Liu et al, UoS</i>	Verification of quantitative Human-Industrial Robot Collaborative simulation results <i>F. Ore et al, MDH</i>	Review of hot cracking phenomena in austenitic stainless steels <i>S. Singh et al, UW</i>	Exploring challenges in a verification process when adapting production processes to new environmental requirements <i>A. A. Svensson et al, MDH</i>	A Study of Sensor Placement in a Modern CNC Lathe <i>J. Ratava et al, LU of T</i>	Effect of columnar cracks and dense layer in suspension plasma sprayed thermal barrier coatings on the coating stresses under thermal shock loadings <i>C. Kumara et al, UW</i>
16.00 - 16.30	Company Integration <i>P. Fräberg et al, LU</i>	Automation constraints in human-industrial robot collaborative workstation design <i>F. Ore et al, MDH</i>	Nano-scratching resistance of high chromium white cast iron and its correlation with tool wear in machining <i>L. Chen et al, Sichuan Univ.</i>	Superhard pcBN tool materials with Ti3SiC2 MAX-phase binder: structure, properties, application <i>T. Kolabylina et al, LU</i>	Prediction of machine tool errors under quasi-static condition <i>K. Szpika et al, KTH</i>	Calibration procedure and uncertainty estimation for commercial white light interferometer. <i>O. Flys et al, HU</i>
16.30 - 17.00	Investigating Maintenance Performance: A Simulation Study <i>G. Linneausson et al, UoS</i>	Dynamic maintenance priority of a real-world machining line <i>M. Frantzen et al, UoS</i>	Dynamic Characterization of Turning High Chromium Cast Iron <i>O. Gutnichenko et al, LU</i>	MAX-phase coatings produced by thermal spraying <i>N. Markocsan et al, UW</i>	Sensitivity of CNC Axis Tracking Errors to Tool Wear in Drilling <i>M. Eynian et al, UW</i>	A Review of Strain Age Cracking in Nickel Based Superalloys <i>F. Hanning et al, Chalmers</i>
19.00	Conference Dinner at Ideon Gateway Hotel					

Conference Day 2, Thursday 27th of October 2016

09.00 - 09.30	Production 2030				
09.30 - 10.00	Keynote Speaker 2 - Mikael Andersson, Höganäs AB (Room: TERA)				
10.00 - 10.30	Refreshments				
Parallel Sessions	A. Automation and Machine Tools	B. Integrated Product & Production development	C. Manufacturing Processes	D. Manufacturing Processes	E. Business models, Strategic planning
Room	TERA	GIGA	MEGA	MIKRO	KILO
Chair	Åsa Fasth Berglund	Magnus Wiktorsson	Jan-Eric Ståhl	Lars Pejryd	Jessica Bruch
10.30 - 11.00	Lean practices and the adoption of digital technologies in assembly and process-based industries <i>R. von Haartman et al, UoG</i>	Exploring Design Thinking for production-based services design in manufacturing firms: The case of Swedish automation SMEs <i>B. Viveros et al, LTU</i>	Influence of Heat Input on Grain Structure in Thin-Wall Deposits using Laser Metal Powder Deposition <i>A. Segerstark et al, UW</i>	Influence of Tool Material and Tool Wear on Tool Temperature in Hard Turning reconstructed via Inverse Problem Solution <i>V. Kryshankovskyy et al, LU</i>	Improving productivity 192% by combining flow- and resource efficiency <i>P. Almström et al, Chalmers</i>
11.00 - 11.30	Implementation of daily visual management at five small and medium sized enterprises in Produktionslyftet compared to six larger Swedish <i>M. Kurdve et al, Swerea</i>	Development of a Design for Manufacturing and Assembly (DFM/A) methodology concerning products and components made in composites of <i>E. Sundin et al, LIU</i>	Cooling of litz wires in industrial induction heating applications <i>F. Lundström et al, LU</i>	Characterization of tool wear when machining Alloy 718 with high pressure cooling using conventional and surface-modified WC-Co tools <i>P. Hoier et al, Chalmers</i>	Identifying Improvement Areas in Production Planning Meetings by Assessing Organisation and Information Systems at a Small <i>D. Li et al, Chalmers</i>
11.30 - 12.00	The natural process mapping phenomenon: Resource oriented vs. value flow oriented <i>A. Johansson et al, Scania</i>	A simulation-based multi-objective optimization approach for production and logistics considering the production layout <i>E. R. Zúñiga et al, UoS</i>	A predictive model for gas tungsten arc heat source <i>I. Choquet et al, UW</i>	Tool Life and Wear Modeling in Metal Cutting, Part 3 - Assessment of different tool life models <i>D. Johansson et al, LU</i>	A Realistic Lean Training Environment for the Manufacturing Industry: Karlstad Lean Factory <i>L. Jacobsson et al, KU</i>
12.00 - 12.30	Model for extracting information from production schedule data <i>E. Niemi et al, Aalto Univ.</i>	Towards a Reduction of Uncertainty in Production System Design Decisions <i>E. Flores-Garcia et al, MDH</i>	Evaluation of non-contact methods for joint tracking in a laser beam welding application <i>F. Sikström et al, GKN/UW</i>	Tool Life and Wear Modelling in Metal Cutting, Part 4 – Sensitivity of Colding Tool Life Equation on the Dimensions <i>D. Johansson et al, LU</i>	Productivity potentials at hospital wards – The case of pharmaceuticals dispensing <i>S. Hermansson et al, Sahlgrenska</i>
12.30 - 13.30	Lunch				
Chair	Oleksandr Gutnicheko	Mats Johansson	Jinming Zhou	Fredrik Schultheiss	Kenneth Frogner
13.30 - 14.00	Robotic Seam Tracking for Friction Stir Welding under Large Contact Forces <i>M. Karlsson et al, LU</i>	Real World Data Identification and Classification for Support of Virtual Confidence <i>I. Marshedzadeh et al, UoS</i>	Study and optimization of changeover procedures in wire drawing <i>K. El Amine et al, ÖU</i>	Manufacturing challenges of post-production process of extruded WPC profile <i>A. Toghyani et al, LU o T</i>	Towards an assessment approach promoting flexible value-adding meetings in industry <i>U. Harlin et al, Swerea</i>
14.00 - 14.30	Reclamation of brass chips through hot forging operations <i>J. Johansson et al, LU</i>	Using Complexity Index for improvements at work: A case study in an automotive company <i>M. Tarrar et al, Chalmers</i>	Machinability analysis of ISO-grouped workpiece material -With focus on cutting force modelling <i>M. Linde et al, LU</i>	Product Cost Calculation Model for Crushing & Screening operations. <i>P. Hedvall et al, LU</i>	Including Student Projects in Research on Integrated Product and Production Development – Methodology <i>F. Henriksson et al, LIU</i>
14.30 - 15.00	Closing session				