

Programme September 30, 2020

Moderators: Anna Davidsson, Volvo Cars and Johan Svenningstorp, Volvo Group Trucks Operations

08.15	Check in							
08.30	Welcome and introduction of the conference , Anna Davidsson, Volvo Cars and Johan Svenningstorp, Volvo GTO							
08.50	Sustainable production and Startup Collaboration , Mats Tarring, Stena Metall							
09.20	Innovation by Value Constellation , Jenny Elfsberg, Vinnova							
09.40	Production for Future , Greta Braun and Johan Bengtsson, Göteborgs Tekniska Collage							
09.55	Break - Coffee, tea							
10.15	Is sustainable production a competitive advantage globally? Moderator: Jenny Bramell, IUC Sverige, Programrådets Ordförande, FFI Hållbar Produktion Pernilla Walkenström, RISE and Strategy Board for production clusters: Staffan Vidén, AB Volvo, Lars-Henrik Jörning, Scania CV AB, Anders Bryngelsson, Volvo Cars, Peter Bryntesson, FKG							
11.20	Produktion2030: Our strategy for sustainable and competitive manufacturing in Sweden Cecilia Warrol, Programme Director Produktion2030 and senior expert at Teknikföretagen							
11.30	Summary and closing first part , Anna Davidsson, Volvo Cars and Johan Svenningstorp, Volvo GTO							
11.45	Lunch							
Sessions								
Tid	1 Production Management Ulrika Harlin, RISE	2 Joining Joakim Hedegård, Swerim	3 Component Manufacture Goran Ljustina, Volvo Cars	4 Logistics Leif Ohlsson, FKG	5 Assembly Åke Gustafsson, Volvo Cars and Sandra Mattsson, RISE	6 Forming Johan Berglund, RISE	7 Digital Manufacturing Gunilla Sivard, KTH	8 Sustainability Karin Wilson, RISE
12.45	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in
13.00	To lead by taking out a compass direction Tommy Bengtsson, Volvo Construction Equipment AB	Production friendly joining methods for Aluminium Fredrik Sikström, HV	Robust and cost-efficient hard part turning of transmission components Ulrika Brohede, Swerim	Circular loops Packaging & Digitalisation Johan Tjernell, EQ-pack and Sasha Shahbazi, RISE	Future Assembly Preparation Johan Karlsson, Scania CV	Analytical Description of Anisotropic Hardening in Sheet Forming Jeong Yoon, Deakin University	Experiences of using 3D scanning and point cloud modelling for efficient design and installation. Per Gullander, RISE and Thomas Rosell, 3button Group	Servitization in the Automotive Industry: Benefits and challenges of selling mobility Brenda Nansubuga, Linköpings Universitet
13.30	Design of Productions Systems for Business Value Anders Johansson, Scania	Enhanced process robustness and fatigue life of welded structures Rickard Aldén, Swerim	Transitioning to sustainable production cryogenic manufacturing processes Peter Krajnik, Chalmers	ASPIRE - Management of deviations in the supply chain Zuhara Chavez KTH and Per Gullander, RISE	Assembly simulations with VR/AR/Computers Dan Lämkuil and Maciej Zdrodowski, VCC	LIGHTest North: Activities in high volume composite forming Yvonne Aitomäki, RISE	Engineering Tool Chain for efficient and iterative development of smart factories Johan Vallhagen, Volvo GTO	Green Accelerator - a green lean method for practical application in production". Maria Bodingh Johansson, Scania
14.00	Production Innovation – future-proof your manufacturing business Anna Öhrvall Rönnbäck and Lisa Larsson, Luleå University of Technology	Smart Welding Knowledge Platforms Elmira Ashtari, KTH-IIP	Minimising heat treatment distortion Hans Kristoffersen, RISE	C-PALS (Cyber-Physical Assembly and Logistics System), presenting an AGV-case study. Erik Flores and Yongkuk Jeong, KTH	Industry 4.0 Maturity in Final Assembly Dan Li, Chalmers	Towards Virtual Tryout: Elastic Dies in Sheet Metal Forming Johan Pilthammar, Volvo Cars BTH	Digitalization in the additive manufacturing supply chain Magnus Widfeldt and Tomas Vannucci, RISE	Production disturbances and sustainability: a holistic perspective Adriana Ito, Chalmers
14.30	End of the day	From the project FFI-Q-IN-MAN - Next generation visual weld quality evaluation Kurt Broeckx, HIAB	Environmental Friendly Bevel Gear Production by Using Pre-Forged Blanks Jannik Henser, PMH/KTH	Virtual tools for more efficient collaboration in logistics development processes Johanna Sigvardsson, Virtual Manufacturing	The future of the suppliers - Challenges and Opportunities with electrification Gabriella Virdarson, FKG	Measurement of elastic press deflections and development of substitutive FE models Daniel Wiklund, RISE	Deliberative automation, enabler for true collaborative and intelligent automation Kristofer Bengtsson, CTH	End of the day

Programme October 1, 2020

Moderators: *Mariam Nafisi, Scania CV AB and Peter Bryntesson, Fordonskomponentgruppen*

08.15	Check in
08.30	Welcome and introduction of the conference, <i>Mariam Nafisi, Scania CV AB and Peter Bryntesson, Fordonskomponentgruppen</i>
08.50	Sustainable production and Startup Collaboration, <i>Peter Löfgren, ABB, Marcus Nilsson, Gimic AB och Pär Bergsten, H&D Wireless AB</i>
09.40	Break - Coffee, tea
09.55	The Governments innovation partnership programmes, <i>Margareta Groth, Vinnova</i>
10.15	Opportunities and advantages of participating in Swedish Manufacturing's R&D Clusters <i>Stefan Janols, IVF IF Service AB/Spectra Premium AB, Johan Svenningstorp, Volvo GTO and Boel Wadman, RISE</i>
10.35	Short break
10.40	Aligning business and design logics for a circular economy, <i>Thomas Nyström and Peter Algurén, RISE</i>
11.20	Summary and closing first part, <i>Mariam Nafisi, Scania CV and Peter Bryntesson, Fordonskomponentgruppen</i>
11.45	Lunch

Sessions

Tid	9 Digital Manufacturing <i>Frida Schildauer, Volvo GTO</i>	10 Additive Manufacturing <i>Patrik Hallberg, RISE</i>	11 Graphene - from lab to industry <i>Elisabeth Sagström-Bäck, SIO Grafen</i>	12 Digitalization of value chains <i>Martin Friis, Produktion2030</i>	13 Component Manufacture <i>Lorenzo Daghini, Scania CV</i>	14 Surface Treatment <i>Jan Skogsmo, RISE</i>	15 Geometry & Quality <i>Helena Björk, RISE and Alf Andersson, Volvo Cars</i>	16 Education in co-operation: Academy-Industry <i>Bengt-Göran Rosén, Halmstad University</i>
12.45	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in	Welcome and check in
13.00	Smart prognosis of energy use aware virtual commissioning including energy optimization <i>Kristofer Bengtsson, Chalmers</i>	Additive manufacturing of customized tool-steel components for manufacturing industry <i>Taoran Ma, RISE</i>	Effect of graphene reinforced adhesives on spot welding in car bodies <i>Oscar Andersson, Volvo Cars</i>	"Digitala stambanan" Opportunities and obstacles of digitalisation in the value chain <i>Martin Friis, Produktion2030</i>	A simulation-based guide for predicting machinability <i>Ragnar Larsson, Chalmers</i>	Oven curing and the virtual paint shop <i>Fredrik Edelvik, Fraunhofer Chalmers Center</i>	Method for surveillance of accuracy of measurement system by internal control <i>Peter Josefsson, NEVS</i>	Ingenjör 4.0 - an unique Pilot testing in the shadow of CORONA <i>BG Rosén, HH and Johan Stahre, Produktion2030</i>
13.30	Adaptive production scheduling using Reinforcement Learning with the focus on energy optimization. <i>Zhiping Wang, Volvo GTO</i>	Powders and Material Selection for Additive Manufacturing by Laser Powder Bed Fusion <i>Sven Bengtsson, Höganäs</i>	Multifunctional graphene enhanced nanocomposites <i>Linnea Selegård, Saab AB and LiU</i>	Sensible Value Chain through Digitalised Planning, Material handling and Circular Economy <i>Sandra Mattsson, RISE</i>	Friction control through surface texturing <i>Robert Tomkowski, KTH</i>	Digi-Load – Automated loading and unloading for surface treatment processes <i>Charlotte Ireholm, RISE</i>	SivPro2 – Quality control on the fly <i>Mikael Sjödah, LTU</i>	Industrial "upskilling" today and tomorrow <i>Håkan Celik, SKF Ann-Sofie Gustavsson, Sandvik</i>
14.00	Concepts for plug and produce, edge analytics and smart sequencing. <i>Pierre Johansson and Frida Schildauer, Volvo GTO</i>	Design & Simulation - Key components in the AM value chain <i>David Ohlsson, RISE</i>	Graphene-based Polymer and Metal Composites: Challenges and Opportunities <i>Mamoun Taher, Graphmatech AB</i>	Adaptive lifecycle design by applying digitalization and AI techniques to production (Adapt 2030) <i>Tomohiko Sakao, LiU</i>	Controlled quenching at case hardening for optimal performance <i>Thomas Kohne, KTH</i>	Pretreatment with Plasma technology for increased adhesion between paint and plastic material <i>Åsa Lundevall, RISE</i>	Industry4.0 and the benefits of big data <i>Jerker Delsing, LTU</i>	Examples from the PILOT Ingenjör 4.0 The Swedish production Academy and Industrial Pilots <i>Vincent Wang, KTH Amogh Krishna, Halmstad University and Victor Svensson, Volvo AB</i>
14.30	Presentation of cluster and discussion of research topics and industrial challenges. <i>Johan Vallhagen, Volvo GTO, Magnus Widfeldt and Per Gullander, RISE</i>	SoftDREAM: A framework to turn any robot arm into a flexible additive manufacturing cell <i>Emil Johansson, RISE</i>	Graphene enhanced polymer based coatings for improved tribology <i>Lena Killander, Applied Nano Surfaces AB</i>	Demo of Infrastructure for Digitalization enabling industrialization of Additive Manufacturing (DiDAM) <i>Ola Isaksson, Chalmers</i>	Compound casting for lightweight applications with optimized properties <i>Torsten Sjögren, RISE</i>	Sustainability and electrified vehicles in a surface treatment perspective <i>Christian Werdinius, Provea</i>	National Center for Industrial Computed Tomography <i>Anna Larsson, RISE</i> Surface Quality - ISO 25178, a new toolbox <i>Stefan Rosén, Toponova</i>	How do we move from here? Plenum Discussion <i>BG Rosén, Johan Stahre, Produktionsakademien, Produktion 2030</i> <i>Vincent Wang, KTH Amogh Krishna, HH Victor Svensson, Volvo AB</i>

With reservation for changes in the programme