Programme September 30, 2020

Responsible of the day: *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 Group Trucks Operations
08.50	**Sustainable production and Startup Collaboration**, *Mats Torring, Stena Metall*
09.15	**Startup Collaboration,** *Mats Torring, Stena Metall*
09.40	**Coffee, tea**
09.55	**Innovation by Value Constellation**, *Jenny Elfsberg, Vinnova*
10.15	**Production for Future,** *Greta Braun and Johan Bengtsson, Göteborgs Tekniska Collage*
10.30	**Is sustainable production a competitive advantage globally?** **Moderator:** Jenny Bramell, IUC Sverige, Programrådets Ordförande, FFI Hållbar Produktion *Pernilla Walkenström, RISE and Strategy Board för produktionsklustren: Staffan Vidén, AB Volvo, Lars-Henrik Jörnving, Scania CV AB, Anders Bryngelsson, Volvo Cars, Peter Bryntesson, FKG*
11.20	**Summary and closing first part,** *Anna Davidsson, Volvo Cars and Johan Svenningstorp, Volvo Group Trucks Operations*
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	Welcome	Welcome	Welcome	Welcome	Welcome	Welcome	Welcome
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*	*Title to be announced* *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*	Ergonomic simulations with VR/AR/computers *Dan Lämkull 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 and Petter Falkman, CTH*	Automotive Aftermarket Perspective, sustainable initiatives *Gunnar Magnusson, Volvo Cars*
14.00	Production Innovation – future-proof your manufacturing business *Anna Öhrwall 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*	Green Accelerator - a green lean method for practical application in production". *Karin Boström and Maria Bodingh Johansson, Scania*
14.30	To be decided	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*	To be decided	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*	Production disturbances and sustainability: a holistic perspective *Adriana Ito, Chalmers*
15.00	**Opportunities and advantages of participating in Swedish Manufacturing's R&D Clusters.** *Stefan Janols, Johan Svenningstorp, Volvo Group Trucks Operations and Boel Wadman, RISE*							

THE SWEDISH
Manufacturing R&D Clusters

Programme October 1, 2020

Responsible of the day: *Mariam Nafisi, Scania CV AB and Peter Bryntesson, Fordonskomponentgruppen*

08.15	**Check in**
08.30	**Welcome and introduction of the conference,** *Mariam Nafisi, Scania CV AB and Peter Bryntesson, Fordonskomponentgruppen*
08.50	**Sustainable production,** *Peter Löfgren, ABB*
09.15	**Startup Collaboration,** *ABB*
09.40	**Coffee, tea**
09.55	**Regeringens samverkansprogram,** *Margareta Groth, Vinnova*
10.15	**Production for Future,** *Greta Braun and Johan Bengtsson, Göteborgs Tekniska Collage*
10.30	**Aligning business and design logics for a circular economy,** *Thomas Nyström and Peter Algurén, RISE*
11.20	**Summary and closing first part,** *Mariam Nafisi, Scania CV and Peter Bryntesson, Fordonskomponentgruppen*
11.45	**Lunch**

Sessions

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

With reservation for changes in the programme

THE SWEDISH Manufacturing R&D Clusters