

Programme May 18, 2022

Responsible of the day: *Anna Davidsson, Volvo Cars and Johan Svenningstorp, Volvo Group Trucks Operations*

Theme: **Advanced Manufacturing for a Sustainable Future**

08.30	Registration, coffee, tea and mingle
09.15	Welcome and introduction of the conference
09.30	Materials supply by recycling and remanufacturing <i>Andreas Frössberg, CEO, Sveriges Bilåtervinnares Riksförbund</i> <i>Fredde Nilsson, Manufacturing Manager for Salvage, Volvo Parts AB</i>
10.10	FFI 2022 and onwards <i>Frida Bjerke, Program Manager FFI Circularity live</i>
10.20	Coffee, tea and moving to the sessions

Parallel sessions

Tid	1 Designing towards resilience and sustainable production Cluster: Production Management Anders Johansson, Scania CV and Ulrika Harlin, RISE	2 Geometry and quality methods for sustainable production Cluster: Geometry and Quality Helena Björk, RISE and Alf Andersson, Volvo Cars	3 Shaping the future for component manufacturing Cluster: Component manufacturing Goran Ljustina, Aurobay	4 New methods in Forming for sustainable manufacturing Cluster: Forming and Joining Johan Berglund, RISE
10.45	Sustainability approaches in greenfield and brownfield production projects <i>Sofia Wånge, 3BUTTON GROUP and Kerstin Johansen, Jönköping University</i>	AMIGO - Analysis with a manikin for improved geometrical quality during manual assembly <i>Fredrik Wandebäck, RISE</i>	Aurobay - Powertrain solutions for brighter tomorrow <i>Mattias Berglund, Aurobay</i>	Overview of ongoing research projects within area Forming <i>Johan Berglund, RISE</i>
11.15	Towards production eco-efficiency and circularity <i>Mélanie Despeisse, Chalmers</i>	Computed tomography (CT): - Test facility (CICT) <i>Helena Björk, RISE</i> - Smart utilization of CT, combining quality control and geometry verification. <i>Davi Jost, Cascade Control AB</i>	AMEXCI – Additive Manufacturing Excellence for Industri, <i>Benjamin Delignon, AMEXCI</i>	New press deflection measuring method with fiber Bragg grating (FBG) and substitutive press models for efficient die cambering <i>Daniel Wiklund, RISE</i>
11.45	Panel discussion: Digital tools supporting development of resilient and sustainable production systems - Current practice and future needs <i>Hanna Carlsson, Scania CV AB</i>	What's next in the field of Geometry and quality? Find out more on projects, started in end of 2021 and early 2022. <i>Alf Andersson, Volvo Cars</i>	Application Centre for Additive Manufacturing <i>Marie-Louise Bergholt, RISE</i>	PROSICOMP II: Process simulation of compression moulding – implementation and integration <i>Yvonne Aitomäki, RISE</i>
12.15	Lunch			
Tid	5 Sustainable maintenances Cluster: Production Management Anders Skoogh, Chalmers and Anna Williamsson, RISE	6 Digitalization in Testbeds for Sustainable Production Cluster: Digital Manufacturing Magnus Widfeldt, RISE	7 Process planning and product properties Cluster: Component manufacturing Lorenzo Daghini, Scania CV AB	8 New methods in Joining for sustainable manufacturing Cluster: Forming and Joining Joakim Hedegård, Swerim
13.15	Smart Maintenance implementation in Swedish industry <i>Jon Bokrantz, Chalmers</i>	Digitala Stambanan Produktion: Focus on digitalized value chains <i>Maja Bärring, Chalmers</i>	Surface texturing via cylindrical grinding: case study <i>Robert Tomkowski, KTH</i>	Overview of ongoing research projects within area Joining <i>Joakim Hedegård, Klara Trydell och Elias Repper, Swerim</i>
13.45	Lessons learned from challenging the fundamental constraints of machine health monitoring <i>Karoly Szipka, IPercept Technology</i>	Digitalisation of Testbeds: The Knowledge Platform DIGIPROD <i>Åsa Lauenstein, RISE</i>	McGuide – Development of a digital machinability guide <i>Ragnar Larsson, CTH</i>	TAMAPRO - Tailor made properties in cast aluminium and steel for improved joinability <i>Andreas Reeb, RISE</i>
14.15	Industry 4.0 and Smart Maintenance at AB Volvo, <i>Sven Wilhelmsson, AB Volvo</i>	Test beds for circular production. Needs and opportunities with digitization and automation <i>Åsa Fasth Berglund, Stena Recycling International AB</i>	Controlled quenching at case hardening for optimal performance <i>Thomas Kohne, KTH</i>	Laser based processing for higher utilization of high strength steels, material development and joining <i>Jan Frostevarg, LTU</i>
14.45	How to develop a strategy and implement Smart Maintenance <i>Camilla Lundgren, RISE</i>	Efficient production changes using web accessed geometrical digital twin <i>Jonatan Berglund, Visinator and Fredrik Wandebäck, RISE</i>	Digital tools for process planning of heat treatment <i>Albin Stormvinter, RISE</i>	MIDWEST – an FFI project enabling robotization of important weld improvement methods <i>David Franklin, Swerim</i>



THE SWEDISH

**Manufacturing
R&D Clusters**

15.15	Coffee, tea
15.40	Sustainable Casting - challenges and research status <i>Marie Fredriksson, Head of Unit, Manufacturing Processes, RISE</i>
16.00	Production capabilities and competence challenges for a sustainable future Moderator: <i>Jenny Bramell, Chairman of the Board of IUC and Programme Council Chairman FFI HP</i> Strategy Board for the Manufacturing R&D Clusters: <i>Anders Bryngelsson, Volvo Cars, Peter Bryntesson, FKG - Scandinavian Association of suppliers, Lars-Henrik Jörnving, Scania CV AB and Staffan Vidén, Volvo Group</i>
17.00	Summary and closing of the first day
19.00	Dinner

With reservation for changes in the programme



THE SWEDISH

**Manufacturing
R&D Clusters**

Programme May 19, 2022

Responsible of the day: *Peter Bryntesson, FKG and Anders Johansson, Scania CV AB*

08.30	Registration, coffee, tea and mingle			
09.15	Welcome and introduction of the conference			
09.30	Inspiration and opportunities - why should we be part of EU projects and partnerships? <i>Riikka Virkkunen, Strategic Manager, VTT</i>			
10.00	The digitalization cluster - process and progress for synergy effects between industry, institutes and universities <i>Grethe Hallberg, Scania CV AB</i>			
10.10	A Plan for the Future: Challenges and enablers Sustainable Production in Sweden <i>Cecilia Warrol, Teknikföretagen and Anders Gotte, RISE</i>			
10.20	Coffee, tea and moving to the sessions			
Parallel sessions				
Tid	9 Material and supply chain management Cluster: Logistics <i>Lena Palm, AB Volvo</i>	10 Digital manufacturing strategy Cluster: Digital Manufacturing <i>Grethe Hallberg, Scania CV AB</i>	11 Sustainable surface treatment Cluster: Surface Treatment <i>Charlotte Ireholm, RISE and Lars Erhardsson, Scania CV AB</i>	12 Assembly strategies for new technology Cluster: Assembly <i>Daniel Gåsvaer, RISE and Robert Wester, Volvo GTO</i>
10.45	Transport disturbances and industrial material supply <i>Sara Rogersson, SSPA</i>	The Digital Transformation of Bror Tonsjö <i>Clas Tengström, Bror Tonsjö</i>	Ongoing project: EDOPP - Simulation of electrocoating <i>Fredrik Edelvik, FCC</i>	The virtual vehicle assembler – future assessments of ergonomics at Scania <i>Mikael Niklasson, Scania CV AB and Dan Högberg, University of Skövde</i>
11.15	Tentative: Overseas packaging Title of presentation <i>Johan Tjernell EQpack and Lena Palm, AB Volvo</i>	The Flagship Factory - Digital <i>Kalle Persson, RISE</i>	Surface treatment for electrical contacts <i>Andreas Reeb, RISE</i>	Assembly research: five years in the production cluster and at Volvo GTO <i>Robert Wester, Volvo GTO, Daniel Gåsvaer, RISE</i>
11.45	Challenges in the introduction of AGVs in production <i>Nils Thylén, Chalmers</i>	Strategy of Digital Manufacturing Cluster <i>Grethe Hallberg, Scania CV AB</i>	Waste management for surface treatment processes <i>Magnus Håkansson, Stena Recycling</i>	Fastener Excellence for Electrical Drivelines (FEED) <i>Lars Oxelmark, Scania CV AB</i>
12.15	Lunch			
Tid	13 Digitalization and sustainable logistics Cluster: Logistics <i>Jannicke Baalsrud Hauge, KTH</i>	14 Digitalization for increased sustainability Cluster: Digital Manufacturing <i>Per Gullander, RISE</i>	15 Sustainable and circular manufacturing <i>Mats Lundin, SuPr</i>	16 Smart design for assembly instructions Cluster: Assembly <i>Daniel Gåsvaer, RISE and Robert Wester, Volvo GTO</i>
13.15	Cyber-Physical system a service for the manufacturing industry - collaboration work between Sweden and South Korea <i>Yongkuk Jeong, KTH</i>	Future Sustainable Manufacturing at Volvo Cars <i>Wim De Spiegeleer, Volvo Cars</i>	Challenges in a circular production, with special focus on automation issues <i>Valentina Falconi, Inrego AB</i>	Universal design for manual assembly – workshop <i>Johan Tjernell, Husmuttern AB, Martin Kurdve and Daniel Gåsvaer, RISE</i>
13.45	Step forwards to higher supply chain visibility through digital transformation <i>Clas Tengström, Bror Tonsjö</i>	Additive Manufacturing Digitalisation Guide (DIDAM/DISAM) <i>Ola Isaksson, Chalmers</i>	Accelerate sustainable transition in manufacturing through education and practical approach <i>Sasha Shahbazi, Södertälje Science Park</i>	Universal design for manual assembly – presentation <i>Johan Tjernell, Husmuttern AB, Martin Kurdve and Daniel Gåsvaer, RISE</i>
14.15	Discussion on development challenges in production logistics Moderator: <i>Lena Palm, AB Volvo and Martin Kurdve, RISE, Patrik Johansson, Scania and Clas Tengström, Bror Tonsjö</i>	An ergonomic simulation software inspired by gaming industry applied to manufacturing operations, <i>Lars Hanson, University of Skövde and Scania CV AB</i>	Empowering the transition to safer and greener chemicals in products and processes <i>Marie-Louise Bergholt, RISE</i>	Instruction innovation for cognitive optimisation: case at Volvo GTO <i>Pierre Johansson, Volvo GTO, Dan Li, Chalmers, Peter Thorvald, University of Skövde</i>
14.45	Coffee, tea			



15.15	New Manufacturing solutions key to realize more circular product life cycles - The expert group for circular production describes important efforts to help Swedish industry to take the lead <i>Mats Lundin, SuPr</i>
15.25	Sustainable Goods Flow <i>Elisabeth Munck af Rosenschöld, Global Supply Chain Operations Sustainability Manager, IKEA</i>
16.00	Summary and closing the conference

With reservation for changes in the programme

