

The 7th European Lean Educator Conference

Learning in the Digital Era

Trondheim, Norway. 25th – 27th October 2021

Conference Program & Parallel Sessions Schedule

All sessions will take place on Zoom. Joining instructions will be sent to registered participants in due course. Welcome to #ELEC2021

	DAY ONE: Monday 25th October DAY TWO: Tuesday 26th October		DAY THREE: Wednesday 27th October				
09:30	Opening Ceremony Welcome day 2		Welcome day 3				
09:45	Meet the Autho	eet the Authors - The Lean Sensei Meet the Authors - All About Pull Production		Meet the Authors - Lean in the Classroom			
10:00	Keynote 1: Prof. Dr. Torbjørn Netland, ETH Zurich		Keynote 3: Rose Heathcote, University of Buckingham		Keynote 5: Vincent Wiegel & Lejla Brouwer, HAN / New		
10:15	- Teaching Lean in the Digital Era		- Forget business as usual. We've work to do.		Engineers - Lean in (and out) of the classroom		
10:30	- reaching Lean in the Digital Era		- roiget busiliess as usual. We ve work to do.		, ,		
10:45	Break		Break			Break	
11:00							
11:15							Productivity
11:30	Learning Lean 1	Teaching Lean in the Digital	Learning Lean 3	Lean and Digital	Lean Management	New Perspectives on Lean 2	and Performance
11:45		Era					Improvement
12:00							p
12:15							
12:30	•					Lunch	
12:45	1	Lunch	Lunch				
13:00							
13:15							
13:30	Keynote 2: Eva Helen Rognskog, SATPOS		Keynote 4: Torbjørn Gjerdevik, Laerdal Medical - People First				
13:45	- Fail fast Learn faster						
14:00					1		
14:15 14:30							
14:30			Skills and Knowledge	New Perspectives on Lean 1	Lean Coaching and Mentoring	Post-conf. Digital	
15:00	Learning Lean 2	Lean 4.0				Worksho	•
15:15			Management	On Lean 1	ivicintoring	WORSI	1003
15:30							
15:45			Break				
16:00	Di Car		D. Cur				
16:15	Panel Discussion 1:		Panel Discussion 2:				
16:30			The Lean Digitalization Paradox - Industrial perspectives				
16:45			Comment of the second of the s				







ELEC 2021

25-27th October 2021 in Trondheim, Norway



TEACHING LEAN IN THE DIGITAL ERA. PROF. DR. TORBJØRN NETLAND

Chair of Production and Operations Management, ETH Zurich, Switzerland.

In this keynote speech, Prof. Netland provides examples of how new digital technologies are changing and shaping the future of lean education and training. Frontal lecturing in the classroom or long sessions of online conferencing are not only disengaging, but also ineffective. Lean should be taught on the Gemba. But what do we do when we cannot travel?

Prof. Netland is a Member of the World Economic Forum's Global Future Council on Advanced Manufacturing and Production. His research on managing production improvement programs is performed in close cooperation with global companies, and appears in leading scientific journals such as the MIT Sloan Management Review and the Journal of Operations Management. He is also the recipient of two Shingo Research Awards.





25-27th October 2021 in Trondheim, Norway





FAIL FAST, LEARN FASTER.EVA HELEN ROGNSKOG
Chief Executive Officer, SATPOS, Norway.

In this keynote speech, Eva will share her experiences and insights from leading SATPOS, an innovative lean-startup that is using digital offshore technology to accelerate the sustainable development of a new and exciting aquaculture frontier – the seaweed industry. Eva insists that "Big Company Disease" is damaging society. To be truly agile, firms must embrace lean and develop a learning-to-learn capability.

Entrepreneur in tech and passionate about ocean health, Eva is a founding member of the Seaweed for Europe Coalition where she leads the Raise Awareness Task Force. Having herself been an entrepreneur several times before, she now works as CEO and co-founder in the exciting growth company SATPOS, which specializes in the development of future positioning and sensor systems for marine environments.



25-27th October 2021 in Trondheim, Norway



DIGITAL LEAN HOTSPOTS IN THE EDUCATIONAL ECOSYSTEM.

MODERATOR: STEVE YORKSTONE, EDINBURGH NAPIER UNIVERSITY, SCOTLAND

We educate in an ecosystem which over the past year has exploded with digitalization. But what are the hotspots where a digital lean combo has made an impact on education? Where are the areas that need digital lean more than ever before? If there was just one hotspot you could influence, what would it be? Join us in this interactive panel discussion as four educators from different lean backgrounds share their experiences in applying digital lean to the educational ecosystem.



Steve Yorkstone, Edinburgh Napier University, Scotland.



Dr. Ruth Archer, Michigan Tech., USA.



University of Lancaster, England.



Christine Stewart, Macresco Ltd, Scotland.



Sarah Lethbridge, Cardiff University Business School, Wales.





25-27th October 2021 in Trondheim, Norway





FORGET BUSINESS AS USUAL. WE'VE WORK TO DO. ROSE HEATHCOTE

Head of Lean, School of Business – University of Buckingham, U.K.

The world looks and feels different, and lean education must respond. Change is a familiar friend, but now takes its cue from environmental pressures, economic fragility, social transformation, and advancements in technology. We've learned that generating profit is not enough and that lean principles still matter, but the agenda has expanded. Lean leaders have work to do to meet the challenge and preaching alone is not enough. In this keynote speech, Rose explores the challenge of educating future Lean leaders.

A learner, writer and teacher, Rose Heathcote is personally dedicated to developing the capacity in people to solve problems that matter. She has spent more than 25 years in various industry- and public sectors and coached an array enterprises in Africa, United Kingdom, Middle East and India in Lean thinking.



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PEOPLE FIRST!

TORBJØRN GJERDEVIK

VP Supply Chain & Manufacturing, Laerdal Medical, Norway.

In this keynote speech, Torbjørn will share his experiences and insights as Plant Manager and Vice President of Supply Chain at Laerdal Medical, a market leading global supplier of medical equipment and simulators.

To make great products we must develop great people and the lean way to developing people is through systematic kaizen and on-the-job training. Inspired by Training Within Industry (TWI), Laerdal Medical has developed its own system for continuously developing operators, team leaders and managers.





25-27th October 2021 in Trondheim, Norway





LEJLA BROUWER-HADŽIALIĆ¹ & VINCENT WIEGEL²

¹New Engineers/UPD, ²University of Applied Sciences Arnhem, The Netherlands.

For almost a decade Lejla and Vincent have been experimenting, practicing, and publishing about Lean and Learning, and the application of Lean in education. Most notably in the recent book *Lean in the Classroom*.



The application of Lean means transformation. Transformation is best served by learning organizations. In their keynote, Vincent and Lejla will expand on the pedagogical framework that underlies their practice in training and organizational change. They will demonstrate how to create learning spaces (in digital environments). You will receive and experience practical tips on how to create engaging settings that foster learning and create value. Learning and Lean have a close affinity.

Parallel Sessions: Monday 25th October 2021

Monday 11.00 - 12.30	Learning Lean 1: Chair: Christoph Roser	Authors
1	The impact of different training approaches on learning lean: a comparative study on Value Stream Mapping	Matteo Zanchi, Paolo Gaiardelli, Daryl Powell
2	Learning Spaces for engineering education: An exploratory research about the role of Lean Thinking	Maira Callupe, Monica Rossi
3	The learning way to EBITDA improvement	Torbjørn Hekneby, Daryl Powell
4	Top Down or Bottom Up: Perspectives on Critical Success Factors of Lean in Institutes of Higher Education	Alinda Kokkinou, Ton van Kollenburg
Monday 11.00 - 12.30	Teaching Lean in a Digital Age Chair: Torbjørn Netland	Authors
1	Teaching in Virtual Reality: Experiences from a Lean Masterclass	Peter Hines, Torbjørn Netland
2	A Lean Six Sigma training providers transition to a 100% online delivery model	Olivia McDermott, Patrick Walsh, Lorraine Halpin
3	Lean courses in process form - do as we learn, success or not?	Eivind Fauskanger
4	The digitalisation and virtual delivery of Lean Six Sigma teaching in an Irish university during COVID-19	Olivia McDermott

Monday 14.15 - 15.45	Learning Lean 2 Chair: Christoph Roser	Authors
1 Learning a L	ean Way	Signe Syrrist
2 Lean Learnii	ng Factories: concepts from the past updated to the future	Gabriela Witeck, Anabela Alves
3 Shaping Lea	n Teaching Methods: Recognizing Lean as a Journey vs. a Set of Tools.	Khavitha Singh, Guy Bowden
The production cultural biorhythm as a new LEAN learning process		Bernd Langer*, Bernd Gems, Yannik A. Langer, Maik Mussler, Christoph Roser, Timo Schaefer
Monday 14.15 - 15.45	Lean 4.0 Special Session: Chair Jannes Slomp	Authors
1 Learning thr	ough action: on the use of Logistics4.0 Lab as learning developer	Mirco Peron, Erlend Alfsnes, Fabio Sgarbossa
2 Blended Net	twork Action Learning – Solving Complex Organizational Problems Across Space and Tir	ne Daryl Powell, Melanie de Vries, Mitchell van Roij, Jannes Slomp
3 Mapping the	Landscape for Lean Six Sigma 4.0	Jiju Antony, Olivia McDermott, Daryl Powell, Michael Sony
4 Roles, Resp	onsibilities and Skills of the LEAN 4.0 Operations Manager	Jannes Slomp

Parallel Sessions: Tuesday 26th October 2021

Tuesday 11.00 - 12.30	Learning Lean 3 Chair: Christoph Roser	Authors	
1 Proposing	g VSM as a tool to compare synchronic online teaching and face-to-face teaching	Felipe Martinez	
2 Hybrid lea	arning factories for lean education: Approach and morphology for competency-oriented design []	Thomas Riemann*, Antonio Kreß, Liane Klassen, Joachim Metternich	
3 Sustaining	g Continuous Improvement Through Double Loop Learning	Chris Buckell, Mairi Macintyre	
4 Fostering	insights from real-time data	Henrik Saabye, Daryl Powell	
Tuesday 11.00 - 12.30	Lean & Digital Chair: Erlend Alfnes	Authors	
1 Lean and	Industry 4.0: Analysing benefits, success factors and barriers with operational, environmental, and social per	s Aysegul Yilmaz	
2 When digi	ital lean tools need continuous improvement	Marte Holmemo, Jonas A Ingvaldsen, Eirik Korsen	
3 Breaking	out of the Digitalization Paradox	Sourav Sengupta, Heidi Dreyer, Daryl Powell	
4 Discoveri	ing Artificial Intelligence implementation and insights for Lean Production	Bassel Kassem, Federica Costa, Alberto Portioli-Staudacher	
Tuesday 11.00 - 12.30	Lean Management Chair: Eivind Reke	Authors	
1 Toyota Ins	spired Excellence Models	José Dinis-Carvalho, Helena Macedo	
2 'Fake lear	n'; On deviating from an ambiguous essence	Jos Benders, Marte Holmemo, Jonas A Ingvaldsen	
3 Quantum	Lean: The Next Step in Lean Systems	Sean Fields, Michael Sanders	
4 What com	nes after the transformation?	Ton van Kollenburg, Alinda Kokkinou	

Tuesday 14.15 - 15.4	5 Skills and Knowledge Management: Torgeir Dingsøyr	Authors	
	1 Bloom Taxonomy, Serious Games and Lean Learning: What they have in common?	Gabriela Witeck, Anabela Alves, Mariana Bernardo	
	2 14 Steps Toward Lean Knowledge Management	Olve Maudal, Torgeir Dingsøyr	
	3 Taking the Playing Lean Experience Online: The Case of Using a Board Game to Teach Lean Startup Remotely	Bruno Pešec	
	4 Lean Teaching and Teaching Lean: 22 Years of Lessons Learned	Bob Emiliani	
Tuesday 14.15 - 15.4	New Perspectives on Lean 1 Chair: Eirin Lodgaard	Authors	
	1 Lean office in a manufacturing company	Federica Costa, Bassel Kassem, Alberto Portioli-Staudacher	
	2 Lessons learned from Toyota Kata implementation in the Norwegian construction industry	Eirin Lodgaard, Maria Flavia Mogos, Natalia lakymenko	
	3 Lean Healthcare: Reduce waste to create best services	Federica Costa, Bassel Kassem, Alberto Portioli-Staudacher	
	4 "Me to We thinking" - A bridge for management to sustainability	Dennis Gawlik	
Tuesday 14.15 - 15.4	5 Lean Coaching and Mentoring Chair: Ton van Kollenburg	Authors	
	1 Developing middle managers with gemba training	Eivind Reke, Nadja Böhlmann	
	2 Towards effective Lean QRM Yellow-belt training programs: a longitudinal analysis	Mitchell van Roij, Martin Linde, Wilfred Knol	
	3 Lean Competency Strategy – getting rid of the belts (abstract only)	Sidsel Storås	
	4 Lean Green Belt, improvement as practical skill in the 21st Century	Ton van Kollenburg	

Parallel Sessions: Wednesday 27th October 2021

Wednesday 11.00 - 12.30	New Perspectives on Lean 2 Chair: Eirin Lodgaard	Authors
1	Lean Translated from a Manufacturing Industry Context to Municipality Service Production: A Case Study	Eirin Lodgaard, Maren Sogstad
2	Challenges in Prototyping a Problem-Solving Practice	Christina Villefrance Møller
3	Lean contribution to the companies' sustainability	José Carlos de Sá
4	Leonardo Da Vinci: Lean Educator or Lean Sensei?	Gianpaolo Perlongo, Monica Rossi
Wednesday 11.00 - 12.30	Productivity and Performance Improvement Chair: Jannes Slomp	Authors
1	A Framework and Qualitative Comparison on Different Approaches to Improve the Lean Skillset	Christoph Roser, Bernd Langer, Claas-Christian Wuttke
2	Lean Warehousing: Enhancing productivity through lean	Matteo Rossini, Bassel Kassem, Alberto Portioli-Staudacher
3	A Simulation-Based Performance Comparison between Flow Shops and Job Shops	Christoph Roser, Daniel Ballach, Berndt Langer, Claas-Christian Wuttke
4	Lean Monitoring Boosting KPIs processing through Lean	Bassel Kassem, Federica Costa, Alberto Portioli-Staudacher