

Program of the European STAMP Workshop & Conference (ESWC) 2018 Amsterdam, 31 October-2 November 2018

Conference updates: www.amsterdamuas.com/icsc

Registration/Logistics: Mrs Sanne van Dorp (m.j.dorp@hva.nl)

Program: Dr Nektarios Karanikas (n.karanikas@hva.nl)

Wednesday, 31st October (Tutorials*) - Location: Hogeschool van Amsterdam, Faculty of Technology, Weesperzijde 190, 1097 DZ, Amsterdam (<http://www.hva.nl/locaties/hva-locaties/leeuwenburg.html>)

12:45 – 13:00	Registration and coffee		Room
13:00 – 14:30	CAST Accident Analysis Introduction Tutorial (Mid Air Collision)	Simon Whiteley Whiteley Aerospace Safety Engineering & Management Limited, United Kingdom	B4.48 (4th Floor, Wing B)
	STPA Hazard Analysis Introduction Tutorial	Martin Rejzek Zurich University of Applied Sciences, Switzerland	
14:30 – 14:45	Coffee break		A4.48 (4th Floor, Wing A)
14:45 – 16:15	RM Studio STPA Module: Introduction and hands-on to the RM Studio STPA Module software	Svana Helen Björnsdóttir & Christopher Brown Stiki Information Security, Iceland	
16:15 – 16:30	Coffee break		
16:30 – 18:00	WebSTAMP: A web application for STPA & STPA-Sec	Fellipe Rey Instituto Tecnológico de Aeronáutica, Brazil	
18:30 – 21:30	Program Committee dinner (by invitation only)		

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Thursday, 1st November 2018 (Conference Day 1) - Location: Hotel Casa, Eerste Ringdijkstraat 4, 1097 BC Amsterdam

8:30 – 09:00	Registration and coffee - (Common room with ICSC)		
9:00 – 09:10	Welcome & Introduction	Nektarios Karanikas Chair of ICSC/ESWC program and organising committees, Amsterdam University of Applied Sciences, Netherlands	
9:10 – 9:20	Opening	Geleyn Meijer Rector, Amsterdam University of Applied Sciences, Netherlands	
9:10 – 10:30	Session 1 Chair: Nektarios Karanikas	09:10 – 09:50	Keynote Speaker: Stephan Berndsen Investigations Manager, Dutch Safety Board, Netherlands
		09:50 – 10:30	Keynote Speaker: George Boustras Professor in Risk Assessment, European University, Cyprus
10:30 – 10:45	Coffee break – Poster Exhibition - (Split rooms)		
10:45 - 12:15	Session 2 Chair: Martin Rejzek	10:45 – 11:15	Keynote Speaker: John Thomas Research Engineer & Scientist, Massachusetts Institute of Technology, United States
		11:20 – 11:45	Stuart Williams University of Strathclyde, United Kingdom Use of STAMP/STPA to Model Organizational Risk and Safety Management at Cruise and Ferry Companies
		11:50 – 12:15	Natalia Silvis-Cividjian, Tanjina Islam, Miguel Morales-Exposito, Abel Pelsler, Abinav Shankar & Robert Zondervan Vrije Universiteit, Netherlands Embedding STAMP in Teaching Software Testing
12:15 – 13:15	Group photograph - Lunch break		

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13:15 – 14:10	Session 3 Chair: Stefan Wagner	13:15 – 13:40	Anthony Vacher*, Francesco Salvo**, Monica Pollina***, Simon Whiteley**** Myra Daridan***** & Brian Edwards***** *Armed Forces Biomedical Research Institute, France **Université de Bordeaux, France ***Independent pharmacoepidemiologist, France ****Whiteley Aerospace Safety Engineering & Management Limited, United Kingdom ***** Clinical Research Consultants, France *****NDA Regulatory Science Ltd & Alliance Clinical Research Excellence & Safety, United Kingdom	The Contribution of Causal Analysis using Systems Theory to the Analysis and Prevention of Serious Incidents in Clinical Research Involving Healthcare Products: Preliminary Results of its Application to the TGN1412 First-in-human Clinical Trial
		13:45 – 14:10	Sofia Trantza*, Brian Edwards**, Ioannis Dokas*** & Sherael Webley* *University of Hertfordshire, United Kingdom **NDA Regulatory Science Ltd, United Kingdom ***Democritus University of Thrace, Greece	
14:10 – 14:30	Coffee break - Poster Exhibition			
14:30 – 15:55	Session 4 Chair: Simon Whiteley	14:30 – 14:55	Dai Funayama, Youichi Tomioka & Junji Kitamichi The University of Aizu, Japan	Proposal of Hazard Analysis Method extending STPA using State Transition Diagram

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		15:00 – 15:25	Carmen Frischknecht-Gruber & Sven Stefan Krauss Zurich University of Applied Sciences, Switzerland	Safety & Cyber-Security Analysis based on Systems-Theory: An Evaluation of Systems Theory and Security Analysis Techniques Using U-space as a Case Study
		15:30 – 15:55	Ashley Brooks & Washington Ochieng Imperial College London, United Kingdom	Using the STAMP Model and Tools (STPA and STPA-Sec) for the Safety and Security Analysis of Road Transport in Conjunction with GNSS
15:55 – 16:15	Coffee break - Poster Exhibition - (Common room with ICSC)			
16:15 – 17:00	Farewell speech	Robert J. de Boer Resigned Professor from the Amsterdam University of Applied Sciences, Netherlands		
17:00 – 18:00	Pre-dinner drinks			
18:30	Dinner: Weesper, Weesperzijde 144, 1091 ET, Amsterdam			

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Friday, 2nd November 2018 (Conference Day 2) - Location: Hotel Casa, Eerste Ringdijkstraat 4, 1097 BC Amsterdam

8:30 – 9:45	Registration - (Common room with ICSC)			
8:45 - 9:25	Keynote Speaker: Pier Eringa Chairman of the Board of Directors, ProRail, Netherlands			
9:25 – 9:45	Coffee break – Poster Exhibition - (Split rooms)			
9:45 – 10:40	Session 5 Chair: Sven Stefan Kraus	9:45 – 10:10	Børge Rokseth & Ingrid Bouwer Utne Norwegian University of Science and Technology, Norway	Safety Verification for Autonomous Ships
		10:15 – 10:40	Osiris A. Valdez Banda*, Sirpa Kannos**, Floris Goerlandt***, Pieter H.A.J.M. van Gelder**** & Pentti Kujala1 *Aalto University, Finland ** NOVA University of Applied Science, Finland *** Dalhousie University, Canada **** Delft University of Technology, Netherlands	Applying STPA for a Systematic and Systemic Hazard Analysis and Management Process for the Concept Design Phase of an Autonomous Vessel
10:40 – 11:00	Coffee break - Poster Exhibition			
11:00 – 12:25	Session 6 Chair: Svana Helen Björnsdóttir	11:00 – 11:25	Sveinung Johan Ohrem, Hyungju Kim, Mary Ann Lundteigen & Christian Holden Norwegian University of Science and Technology, Norway	A Comparison of Hazards and Efficiencies of Conventional and Adaptive Control Algorithms using Systems-Theoretic Process Analysis
		11:30 – 11:55	Liran Bar Or, Shai Arogeti & Daniel Hartmann Ben-Gurion University, Israel	Challenges in Future Mathematical Modelling of Hierarchical Functional Safety Control Structures within STAMP Safety Model

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		12:00 – 12:25	Odd Ivar Haugen* & Børge Rokseth** *DNV GL, Norway ** Norwegian University of Science and Technology, Norway	FAST Augmented STPA
12:25 – 13:30	Lunch break			
13:30 – 14:55	Session 7 Chair: Thordur Vikingur Fridgeirsson	13:30 – 13:55	Yang Wang*, John Thomas** & Stefan Wagner* *University of Stuttgart, Germany **Massachusetts Institute of Technology, United States	Using Requirements Specification to Speed up STPA-BDD in Agile Development
		14:00 – 14:25	Shigeru Kusakabe* & Azuma Miwa** *University of Nagasaki, Japan **SCSK, Japan	A CAST Analysis of an Accident of a Software Project
		14:30 – 14:55	Vitaly Shrager, Roni Shneck & Daniel Hartmann Ben-Gurion University, Israel	CAST Analysis of the 2016 Bromine Train Accident in Dimona, Israel Using Extended STAMP Model
14:55 – 15:15	Coffee break - Poster Exhibition			
15:15 – 16:40	Session 8 Chair: Anastasios Plioutsias	15:15 – 15:40	Hew Merrett*, Jao-Jia Horng*, Andrew Piggott** & Amro Qandour*** *National Yunlin University of Science and Technology, Taiwan **OAS Sweden AB, Sweden ***Edith Cowen University, Australia	Application of STPA in the Development and Testing of an Automated Water Quality Management System
		15:45 – 16:10	Martijn Flinterman, Anne Van der Heiden & Ben Kleiss Rijkswaterstaat, Netherlands	Risk Assessment for Uniform Workstations for the Control and Supervision of Movable Bridges

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		16:15 – 16:40	Asim Abdulkhaleq*, Susanne Ebel* & Stefan Wagner** *Robert Bosch GmbH, Germany **University of Stuttgart, Germany	A System-Theoretic SOTIF Analysis Approach
16:40 – 17:00	Closing remarks and conference closing	Stefan Wagner* & Martin Rejzek** *Chair of the ESSB, University of Stuttgart, Germany **Co-Chair of ESWC, Zurich University of Applied Sciences, Switzerland		

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List of ICSC & ESWC Posters – Thursday 1st and Friday 2nd November 2018

(in alphabetical order of title)

Review and Comparison of Modelling Approaches and Risk Analysis Methods for Complex Ship System	Sunil Basnet & Osiris Valdez Banda Aalto University, Finland
The AVAC-COM communication model and classification tool: results from application to aviation safety events	Nektarios Karanikas* & David Passenier** Amsterdam University of Applied Sciences, Netherlands University of Amsterdam, Netherlands
The Concept Towards a Standard Safety Model (STASAM v.0)	Nektarios Karanikas* & Alfred Roelen** *Amsterdam University of Applied Sciences, Netherlands **National Aerospace Centre, Netherlands
The Gaps between Design, Implementation and Perceptions of Safety Culture Prerequisites	Nektarios Karanikas*, Alfred Roelen** & Alistair Vardy* *Amsterdam University of Applied Sciences, Netherlands **Netherlands Aerospace Centre, Netherlands
The Gaps between Institutionalisation, Capability and Effectiveness of Aviation Safety Management Systems	Nektarios Karanikas*, Alfred Roelen** & Alistair Vardy* *Amsterdam University of Applied Sciences, Netherlands **Netherlands Aerospace Centre, Netherlands