12th September - Kongresshaus, Zürich

SWISSED16

The Swiss Society of Systems Engineering Day

SWISSED16 is the third Annual Symposium of the Swiss Society of Systems Engineering (SSSE), also acting as the Swiss Chapter of the International Council on Systems Engineering (INCOSE).

We are offering a 1 day event bringing together first-class presenters and practitioners from across Europe, to share knowledge and experiences on how to plan, develop and manage systems in an efficient and successful way.

SSSE

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SWISSED 16 THEME:

Systems Engineering for Competitiveness



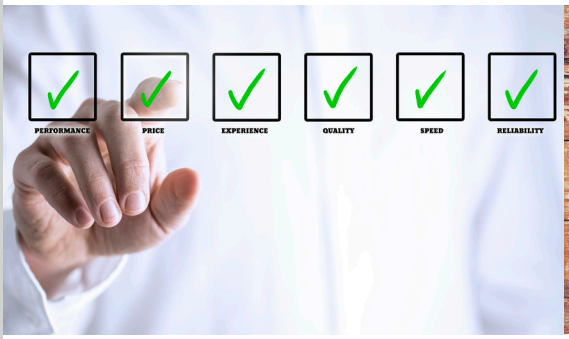
Main Categories for Submissions:

- Systems Engineering applied to the Medical Devices Industry
- Defense and Aerospace Systems Engineering
- IoT / Industry 4.0
- Agile Systems Engineering

THE PROGRAMME: Topics Covered

- Systems Thinking
- Decision Management and Concurrent Engineering
- Requirements Management
- Verification and Validation
- Systems Architecting
- Model-Based Systems Engineering

(SEE TECHNICAL PROGRAMME)

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WHAT IS SYSTEMS ENGINEERING?

Enables identification of requirements
Key to realising integration, verification and validation
Provides a structured and auditable approach
Supports interface management
Manages risks
Optimises system lifecycles
Takes an overarching perspective
Considers the whole system
Fosters an interdisciplinary approach



WHO SHOULD ATTEND?

The conference gives industry, organisations, educators, researchers, and government the opportunity to learn about cutting edge practice and research, share experiences, and network.

Those working with complex systems

Those who want to find out how Systems Engineering can be of use to them

Organisations looking to be able to generate innovative solutions to technical problems

Practitioners needing to keep up to date with the latest developments in Systems Engineering or wanting to participate actively in the evolution of the discipline

Students who want to further their knowledge and employment perspective

Systems Engineer, Technical Project Manager, Lead Architect, Chief Engineer, Requirements Engineer, Business Analyst or simply ...
the person who seems to know everything about the project!

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KEY NOTE SPEAKERS

Olivier L. de Weck

Professor of Aeronautics and Astronautics and Engineering Systems

Executive Director
MIT Production in the Innovation Economy (PIE) Study

Co-Director
Center for Complex Engineering Systems
KACST and MIT

Secretary and Treasurer
Council of Engineering Systems Universities (CESUN)

Duncan Bishop

Programme Director at Cambridge Consultants Ltd.

Associate Director
Cambridge Consultants

Aerosystems Engineering Officer
Royal Air Force

20 years' experience in management of complex interdisciplinary development projects, with special interest in design processes for healthcare.

PLUS: Four tracks with presentations

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COST AND PRICES

(INCL. LUNCH AND REFRESHMENTS)

	EARLY BIRD (UNTIL 31ST JULY)	REGULAR
STUDENTS	CHF 20	CHF 40
SSSE MEMBERS	CHF 100	CHF 150
NON-MEMBERS	CHF 150	CHF 200

GROUP OFFER:

PURCHASE 5 TICKETS FOR THE PRICE OF 4!

(Ideal for corporate events and training)

All presentations will be held in English although many of the presenters are fluent in German. Visit www.ssse.ch for further programme information as it matures.

To register please go to: *http://ssse.ch/node/258*
For all queries and to become a member of the SSSE please email: info@ssse.ch

(membership INCOSE / SSSE for one year: USD 135)

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VENUE - HOW TO GET THERE?

Kongresshaus Zürich, Gotthardstrasse 5,
8002 Zurich

Tel +41 (0)44 206 36 36 Fax +41 (0)44 206 36 59
info@kongresshaus.ch

Arrival from the Airport Zurich in Kloten
(by train SBB to Zurich main station)

Arrival from Zurich main station
(by tram to Stockerstrasse)
Tram Nr. 6 - Tram Nr. 7 - Tram Nr. 13
(direction station Enge) (direction Zurich Wollishofen)
(direction Albisgüetli)
then a 5 minutes walk along the Beethovenstrasse OR

Arrival from Zurich main station
(by Tram to Bürkliplatz)
Tram Nr. 11 (direction Rehalp)
then a 5 minutes walk along the General-Guisan-Quai

Arrival from Zurich Enge SBB Station:
A 10 minutes walk along the Gotthardstrasse
OR

Arrival from Zurich Enge SBB Station
(by Tram to Stockerstrasse)
Tram Nr. 6 - Tram Nr. 7 - Tram Nr. 13
(direction Zoo)
(direction station Stettbach) (direction Frankental)
Then 5 minutes walk along the Beethovenstrasse

Arrival from Zurich Stadelhofen SBB Station
(by Tram to Bürkliplatz)
Tram Nr. 2 (direction Farbhof)
Tram Nr. 11 (direction Auzelg)
then a 5 minutes walk along the General-Guisan-Quai

ABOUT SSSE

SSSE

The SSSE was formed in 2011 and is a group of highly active Engineers from a broad range of industries all with a shared passion for doing Systems Engineering more effectively and efficiently.

Past presentations from events are online at:
http://www. ssse.ch/events/past.

ABOUT INCOSE

INCOSE
International Council on Systems Engineering

The International Council of Systems Engineering (INCOSE) is a not-for-profit membership organisation founded to develop and disseminate the interdisciplinary principles and practices that enable the realisation of successful systems.

INCOSE has grown significantly since its formation in 1990. Today, there are over ten thousand members representing a broad spectrum - from student to senior practitioner, from technical engineer to programme and corporate management, from science and engineering to business development.

Members work together to advance their technical knowledge, exchange ideas with colleagues, and collaborate to advance systems engineering.

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TECHNICAL PROGRAMME

DOORS OPEN AT 8:00 FOR REGISTRATIONS AND REFRESHMENTS

TIME	LECTURES AND PRESENTATIONS				
8:50	**WELCOME:** Introduction by the SSSE President				
9:00	**KEYNOTE SPEAKER I:** Prof. de Weck, MIT, Systems Engineering: Journey from Adolescence to Adulthood (1991-2016) [Gartensaal A]				
9:55	**REFRESHMENTS**				
	MEDICAL DEVICES	**AEROSPACE AND DEFENSE**	**AGILE SYSTEMS ENGINEERING**	**IoT AND INDUSTRY 4.0**	**TRANSPORT AND GENERAL SE TOPICS**
10:25	**Pierfelice Ciancia** *FRIKART Engineering* Application of MBSE to a start-up in the medical device domain: the added value.	**Stefan Hänggi** *Armasuisse* The need for Domain-specific, rich visual Systems Engineering languages	**Tim Weilkiens** *OOSE* The Muddle of Agile Systems Engineering	**Dr. Yang Hu, Dr. Thomas Palmé & Dr. Olga Fink** *Zurich University of Applied Sciences (ZHAW)* Deep Fault Detection	**Gerd Maier** **Stadler Altenrhein AG** *SIEMENS (SPONSORED)* Supporting conformity of product requirements and compliance documents with SIEMENS Teamcenter
11:00	**INTRODUCTION TO SWISSED 16 SPONSORS**				
11:40	**Mariana Reyes Perez** *QIAGEN* The Role of Systems Engineering in the GeneReader NGS System		**Colin Hood** *Colin Hood SE Ltd.* The V-Model is Dead. Long Live the V-Model!	**Didier Pagnoux** *Altran* The Industrial Consortium S3P (Smart, Safe, and Secure Platform) to build an IOT Platform	**OPEN DISCUSSION** *Guest Panel* How does implementing Systems Engineering enhance an organization's competitiveness?
12:15	**LUNCH**				
13:15	**Daniel Lucas-Hirtz and Christophe Benz** *Sonova AG* Less requirements, more agreement: delta tree platform governance at Sonova AG	**Andreas Märki** *RUAG Space* Lean Back and Ask Basic Questions - e.g. on Lunar Laser Ranging	**Dr. Laurent Balmelli** *Sodius Corp (SPONSORED)* Cost-Effective and Collaborative Model-Driven Systems Engineering with Design Share and MD Workbench	**Richard Crisp** *IBM* Predictable Development for the Internet of Things	**Lilach Goren Huber** *Zurich University of Applied Sciences (ZHAW)* Predictive Maintenance of Hull and Propeller for Marine Vessels"

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(CONTINUED)

14:00	**Szymon Kostrzewski** *KB Medical* Systems Engineering for AQrate SYSTEM	**Mathias Burkhalter, Oliver Kunz & Beny Wüthrich** *RUAG Space* Agile development in the space business	**Christian Bühlmann** *Supercomputing Systems AG* Kenjutsu on legacy systems	**Hedley Apperly** *PTC (SPONSORED)* Agile Systems Engineering	**Markus Walker and Mike Johnson** *Schindler Aufzüge AG and Roche Diagnostics International,* Applying Pragmatism to Systems Engineering
14:35	**REFRESHMENTS**				
15:00	**KEYNOTE SPEAKER II**: Mr D. Bishop, Cambrige Consultants, Barriers to the Adoption of System Engineering in the Healthcare Industries				
16:05	**Rolf Knobel** *Roche Diagnostics Int.* Development of High Integrity Diagnostics Results Calculation Algorithms	**Sonia Ben Hamida** *Ecole Centrale Paris* Towards a Design-to-Value approach in early design stages	**Markus Schacher & Rolf Gubser** *Know Gravity* Integrated Modelling for Engineering Complex Heterogeneous Systems	**Bruce Douglas** *IBM (SPONSORED)* Safety and Security in the IoT	**Prof. Jörg Sekler** *FHNW - School of Engineering* The Systems Engineering Landscape from the Perspective of a Swiss University of Applied Sciences (UAS)
16:50	**OPEN DISCUSSION** *Guest Panel* What are the future challenges for implementing SE in the medical device industry?	**Dr. Anton Ivanov** *EPFL Space Engineering Center* Hyperspectral remote sensing with small satellites	**Aiste Aleksandraviciene & Aurelijus Morkevicius** *No Magic* Deploying Model-Based Systems Engineering: Best Practices	**Max Edelmann** *FHNW - School of Engineering* Industry 4.0 in R&D & Continuing Education at the University of Applied Sciences Northwestern Switzerland	**Dr. Laurent Balmelli** *Sodius Corp* Driving Collaborative Innovation across System Engineering Modeling Activities
17:25	**STUDENT PRIZE AND CLOSING**				
	APÉRO				

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