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.
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)
12th September - Kongresshaus, Zürich

**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!**
12th September - Kongresshaus, Zürich

Swissed16
The Swiss Society of Systems Engineering Day

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
(see technical programme)
12th September - Kongresshaus, Zürich

COST AND PRICES
(INCL. LUNCH AND REFRESHMENTS)

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<thead>
<tr>
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<th>EARLY BIRD (UNTIL 31ST JULY)</th>
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<tbody>
<tr>
<td>STUDENTS</td>
<td>CHF 20</td>
<td>CHF 40</td>
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<tr>
<td>SSSE MEMBERS</td>
<td>CHF 100</td>
<td>CHF 150</td>
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<tr>
<td>NON-MEMBERS</td>
<td>CHF 150</td>
<td>CHF 200</td>
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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)
12th September - Kongresshaus, Zürich

VENUE - HOW TO GET THERE?
Kongresshaus Zürich, Gotthardstrasse 5, 8002 Zurich

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 Albisgutti) 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 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
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
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.
### TECHNICAL PROGRAMME

**DOORS OPEN AT 8:00 FOR REGISTRATIONS AND REFRESHMENTS**

<table>
<thead>
<tr>
<th>TIME</th>
<th>LECTURES AND PRESENTATIONS</th>
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<tbody>
<tr>
<td>8:50</td>
<td><strong>WELCOME</strong>: Introduction by the SSSE President</td>
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<tr>
<td>9:00</td>
<td><strong>KEYNOTE SPEAKER I</strong>: Prof. de Weck, MIT, Systems Engineering: Journey from Adolescence to Adulthood (1991-2016) [Gartensaal A]</td>
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<tr>
<td>9:55</td>
<td><strong>REFRESHMENTS</strong></td>
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<td><strong>10:25</strong></td>
<td><strong>MEDICAL DEVICES</strong></td>
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<td>Pierfelice Ciancia</td>
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<td>FRIKART Engineering</td>
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<td></td>
<td>Application of MBSE to a start-up in the medical device domain: the added value.</td>
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<td><strong>11:00</strong></td>
<td><strong>INTRODUCTION TO SWISSED 16 SPONSORS</strong></td>
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<tr>
<td></td>
<td>Mariana Reyes Perez</td>
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<td>QIAGEN</td>
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<td>The Role of Systems Engineering in the GeneReader NGS System</td>
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<td><strong>12:15</strong></td>
<td><strong>LUNCH</strong></td>
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<td><strong>13:15</strong></td>
<td>Daniel Lucas-Hirtz and Christophe Benz</td>
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<td>Sonova AG</td>
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<td>Less requirements, more agreement: delta tree platform governance at Sonova AG</td>
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**CONTINUED - PAGE TURN OVER**
## TECHNICAL PROGRAMME
(CONTINUED)

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