



*Deep Tech in the **digital** space*

**Congress
Center Basel
November 12**

Program

9:30	Welcome & registration
10:00	<i>Greetings address</i> Mario El-Khoury, CEO, CSEM
10:15	<i>Humanity becoming interplanetary and the urgency of saving spaceship Earth</i> Dava Newman, Apollo Program Professor of Astronautics, Harvard-MIT, former Nasa deputy administrator
11:00	Networking coffee break
11:30	CSEM technology sessions on <ul style="list-style-type: none">• <i>“Digitalization”</i>• <i>“Energy”</i>• <i>“Precision manufacturing in life sciences”</i>
13:00	Standing networking lunch with CSEM experts, and an exhibition of our latest technology demonstrators
15:00	<i>Greetings from the Canton of Basel-Landschaft</i> Peter Riebli, Landratspräsident
15:15	CSEM Digital Journey <ul style="list-style-type: none">• <i>Testimony of last year’s winner</i>• <i>Award ceremony of the CSEM Digital Journey 2019</i> Donation presentation to Terre des hommes
16:15	<i>Apollo retrospective</i> Lukas Viglietti, Pilot at SWISS International Airlines and President at SwissApollo
17:00	Networking aperitif

CSEM technology sessions from 11:30 to 13:00

Digitalization session chaired by **Alain-Serge Porret**, VP, Integrated & Wireless Systems, CSEM

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- 11:40 **Condition-based maintenance with Deep Learning**
Edouard Barret, StadlerRail & Philipp Schmid, CSEM
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- 12:00 **Intelligent vision systems**
SMS Concast & Andrea Dunbar, CSEM
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- 12:20 **The doctor in your pocket – Fighting hypertension with your smartphone**
Patrick Schoettker, Biospectral & Ricard Delgado, CSEM
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- 12:40 **Quantum sensors & miniature atomic clocks**
Pascal Rochat Orolia SpectraTime & Jacques Haesler, CSEM
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Energy session chaired by **Thomas Söderström**, Deputy Division Head, Photovoltaics, CSEM

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- 11:40 **Digital insights: the accelerator for transforming the energy system**
Clemens Bathon, Eturnity & Pierre-Jean Alet, CSEM
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- 12:00 **Energy scavenging for wearable devices**
Elisa Favre, CSEM
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- 12:20 **Resource optimization: energy + data in UAV**
Insightness & Stephane Emery, CSEM
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- 12:40 **PV technologies for the electronic industry**
ABB & Sylvain Nicolay, CSEM
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Precision manufacturing in life sciences chaired by **Michel Despont**, VP, Emerging Micro and Nano Technologies, CSEM

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- 11:40 **Measuring contractility of 3D bioprinted human muscle models in microplates**
Hansjoerg Keller, Novartis & Vincent Revol, CSEM
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- 12:00 **Cracking the brain code**
Mauro Gandolfo, 3Brain & Gilles Weder, CSEM
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- 12:20 **Biosensors for non-invasive health monitoring**
Miltos Vasileiadis, Alpes laser & Samantha Paoletti, CSEM
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- 12:40 **M4IVD Assoc. – Accelerator for POC IVD development**
Rafiq Hussain, Hemex & Sören Fricke, CSEM
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