

Semiconductors: How complexity led to scarcity

Online Webinar

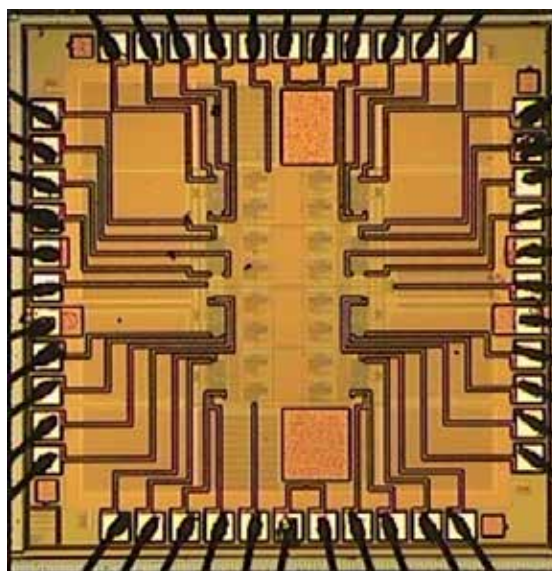
Tuesday, 14. December 2021, 16.00 - 17.30 h



Dear members of Swissmem Industry Sectors

Ever since the invention of the transistor at Bell Labs in 1947, semiconductors shrank exponentially in size while growing exponentially in importance, strongly influencing most aspects of our lives. High-performance and low-power chips enabled the digital revolution, the digitalization of our lives as well as everything from mainframe computers to smartphones, cryptocurrencies, and the third boom of artificial intelligence.

The webinar will give an overview of the underlying technologies and their implications on applications and industries; it should lead to a better understanding of the current situation (e.g., the chip scarcity) and the trends in the semiconductor industry (e.g., open source hardware).



Picture: © ETH Zurich, 2003

Information

Target audience CEO's, Entrepreneurs, Sourcing & Supplychain Managers, CTO's & R&D Managers as well as other specialists involved in the design, production and marketing of machinery and capital goods.

Speaker **Matthias Frey, PhD**
Strategic Planning Manager
Corporate Technology Strategy Division
Sony Group Corporation, Tokyo

Language English

Fees Free of charge for Swissmem members
CHF 100.00 + VAT for any others

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Programme of 14. December 2021

16.00 h	Welcome & Introduction Christoph Blättler, Secretary General, Swiss Machine Tool Manufacturers, Swissmem
16.05 Uhr	Presentation «Semiconductors: How complexity led to scarcity» Matthias Frey, PhD, Strategic Planning Manager Corporate Technology Strategy Division Sony Group Corporation, Tokyo
17.10 Uhr	Q&A-Session
17.25 Uhr	Wrap-up & closing remarks Christoph Blättler, Secretary General, Swiss Machine Tool Manufacturers Swissmem
17.30 Uhr	End of Online Webinar

Speaker

Matthias Frey received his Ph.D. in signal processing and analog chip design from ETH Zurich in 2006. He subsequently held various R&D positions in the Japanese industry, developing analog-digital converters, laser distance measurement algorithms, and ultra-sonic speakers. From 2012-2017, Matthias headed the Science & Technology Office Tokyo of the Embassy of Switzerland in Japan. Since 2018 he has been Chief Analyst at Sony Europe, specialized in semiconductors, signal processing, and machine learning. Earlier this year, he joined Sony's Corporate Technology Strategy Division as Strategic Planning Manager in the domain of System on Chips and semiconductors.

Registration

Registration deadline

13. December 2021

Link for enrolment

[«Semiconductors: How complexity led to scarcity»](#)

Conditions of participation

The number of participants is limited. Registrations are accepted on a «first come, first served» basis. Cancellations can be accepted without charge until 10. December 2021. For any later cancellations, the full participation fee will be due.