



MANIC NWE1 2020

October 19-23, 2020 (CET)

PROGRAMME

Monday Oct 19 | 12:30 to 16:45 - Intro to MANIC + introductory pitches

Use the following [weblink](#) to join the event.

- 12:15 - 12:30 **Online meeting room open**
- 12:30 - 12:50 **Welcome & Introduction to MANIC**
- 12:50 - 13:25 **UG + ESR1, (ESR2), ESR3 and ESR10**
- 13:25 - 13:50 **IBM + ESR4 and ESR5**
- 13:50 - 14:05 **EPFL + ESR6**
- 14:05 - 14:20 **UPJV + ESR7**

- 14:20 - 14:45 **Break**

- 14:45 - 15:00 **CSIC + ESR8**
- 15:00 - 15:15 **JUELICH + ESR9**
- 15:15 - 15:30 **UCAM + ESR11**
- 15:30 - 15:45 **QUB + ESR12**
- 15:45 - 16:00 **UCL + ESR13**
- 16:00 - 16:15 **UT + ESR14**
- 16:15 - 16:30 **UZH + ESR15**

- 16:25 - 16:45 **Discussion & closing**

Tuesday Oct 20 | 12:50-17:10 – Scientific Lectures

Use the following [weblink](#) to join the event.

- 12:50 - 13:00 **Opening by Beatriz Noheda** (University of Groningen, NL)

- 13:00 - 14:00 *"Radio-frequency spintronic neural networks"*
Julie Grollier (CNR/Thales, Fr)

- 14:00 - 15:00 *"Quantum Computing with Near-Term Devices"*
Andreas Fuhrer (IBM-Research, CH)

- 15:00 - 16:00 *"Neuromorphic Computing Based on Memristive Materials and Devices"*
Wei D. Lu (University of Michigan, USA)

- 16:00 - 17:00 *"In-memory computing with memristor content addressable memory circuits"*
Catherine Graves (Hewlett Packard Enterprise (HPE) Labs, USA)

- 17:00 - 17:10 **Closing**



Wednesday Oct 21 | 08:55-13:15 – Scientific Lectures

Use the following [weblink](#) to join the event.

- 08:55 - 09:00 **Opening by Beatriz Noheda** (University of Groningen, NL)
- 09:00 - 10:00 *"Analog synaptic signal processing for neural network inference and training"*
Bert Offrein (IBM-Research, CH)
- 10:00 - 11:00 *"The insulator-to-metal transition: physics and applications in neuromorphic computing"*
Javier del Valle (University of Geneva, CH)
- 11:00 - 12:00 *"Mott Insulator-Based Oscillator Circuit for Reservoir Computing"*
Tyler Hennen (RWTH Aachen University, Ge)
- 12:00 - 13:00 *"Memory Technology – A Primer for Material Scientists"*
Tony Schenk (Ferroelectric Memory GmbH, Ge)
- 13:00 - 13:15 **Closing**

Thursday Oct 22 | 10:30 to 15:30 - Workshop Project Management for ESRs

Go to following [weblink](#) to join the event.

- 10:30 to 15:30 Workshop Project Management by **Vanessa van Hest**

Friday Oct 23 | 09:30 to 11.30 - Workshop Ethics & Scientific Integrity for ESRs and Breakout Sessions for ESRs

Go to following [weblink](#) to join the event.

- 09:30 - 11:30 Workshop Ethics & Scientific Integrity by Beatriz Noheda
- 11:30 - 12:00 Breakout Sessions ESRs
- 12:00 – 12:15 **Closing**