

SUNDAY 2 JULY

6:00 PM – 8:00 PM

Welcome reception and introduction to the school with refreshments.

# ACM — EUROPE SUMMER SCHOOL

2 – 7 JULY

MONDAY 3 JULY

9:00 AM – 9:30 AM

*Welcome to the school by:*

- Mateo Valero, Director of the Barcelona Supercomputing Centre.
- Rosa M. Badía, ACM Europe Chair.
- Eduard Ayguadé, Fabrizio Gagliardi, and María Ribera Sancho, ACM Summer School.

9:30 AM – 10:00 AM

**María Ribera Sancho** (BSC).

Talk: *Presentation of European MSc for HPC.*

10:00 AM – 1:00 PM

**Uri Weiser** (Technion IIT).

Lecture: *General purpose CPU history and the thrust towards a new era: Machine Learning Accelerator.*

1:00 PM – 2:00 PM

Lunch Break

2:00 PM – 5:00 PM

**Per Stenström** (Chalmers University).

Lecture: *Cache and Memory Compression Techniques.*

5:00 PM – 5:30 PM

**Mario Kovač** (Zagreb University).

EPI Presentation. *European Processor Initiative: Cornerstone of EU digital agenda and EU digital sovereignty.*

5:30 PM – 7:00 PM

Welcome reception by EPI represented by Mario Kovač.

TUESDAY 4 JULY

9:00 AM – 1:00 PM

**Jesús Labarta** (BSC).

Lecture: *Highly parallel techniques & performance optimisation.*

1:00 PM – 2:00 PM

Lunch Break

2:00 PM – 4:00 PM

**Jesús Labarta** (BSC).

(Cont.) *Highly parallel techniques & performance optimisation.*

4:00 PM – 4:15 PM

Break

4:15 PM – 4:30 PM

Transfer to BSC.

4:30 PM – 6:00 PM

Visit to Mare Nostrum 5 & Meet BSC scientists with BSC poster exhibition.

*\*\*Coffee break will be provided\*\**

FREE TIME



WEDNESDAY 5 JULY

9:00 AM – 1:00 PM

**Josep Lluís Berral** (UPC).

Lecture: *Distributed Data Analytics for AI in Supercomputing Systems.*

1:00 PM – 2:00 PM

Lunch Break

2:00 PM – 5:00 PM

**Rosa M. Badía** and **Jorge Ejarque** (BSC).

Lecture: *Simplifying the life-cycle management of HPC, data analytics and AI workflows.*

5:00 PM – 5:30 PM

Coffee break + light food

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FREE TIME

THURSDAY 6 JULY

9:00 AM – 1:00 PM

**Luca Benini** and **Andrea Bartolini** (University of Bologna).

Lecture: *High-performance RISC-V computing and AI acceleration - an open platform perspective.*

1:00 PM – 2:00 PM

Lunch Break

2:00 PM – 4:00 PM

**Luca Benini** and **Andrea Bartolini** (University of Bologna).

(Cont.) Lecture: *High-performance RISC-V computing and AI acceleration - an open platform perspective.*

4:00 PM – 5:00 PM

Coffee break + light food.

Booths: ACM, EuroMaster4HPC, and BSC.

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FREE TIME

FRIDAY 7 JULY

9:00 AM – 1:00 PM

**Mauro Olivieri** (Sapienza University)

Lecture: *Vector computing on an embedded open-source processor platform*

1:00 PM – 2:00 PM

Lunch Break

2:00 PM – 3:00 PM

**Alba Cervera** (BSC)

Talk: *A gentle introduction to quantum computation.*

3:00 PM – 4:30 PM

*A conversation with Leslie Lamport, Turing laureate.*

**Interviewer:** Alba Cervera

4:30 PM – 5:00 PM

Break

5:00 PM – 5:45 PM

**Mateo Valero** (BSC)

Talk: *Barcelona Supercomputing Centre Director's final keynote.*

5:45 PM – 6:00 PM

**Student Diploma Ceremony and closing of the school** by Maria Ribera Sancho, Eduard Ayguadé and Fabrizio Gagliardi.

6:00 PM – 7:00 PM

Farewell party

