

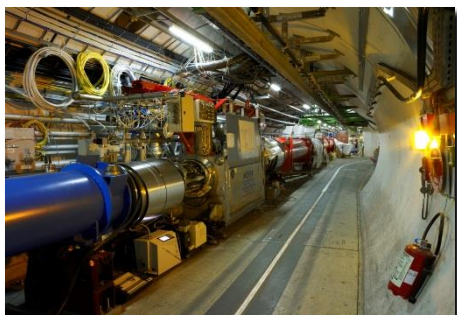
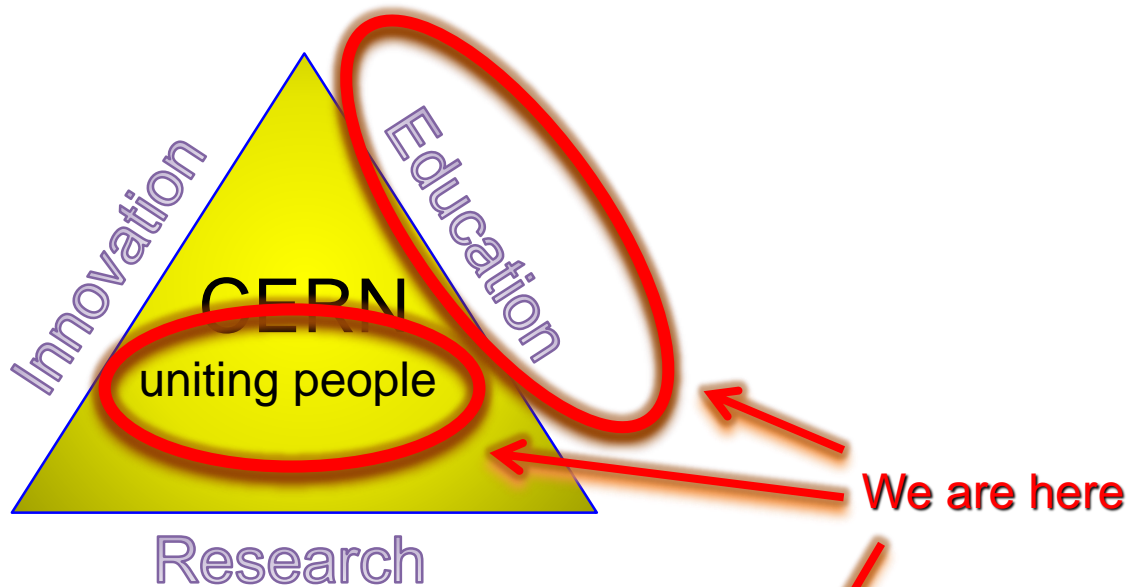
CERN School of Computing (CSC)



Sebastian Lopienski

CSC Director

CERN's mission



Accelerating beams
(accelerators)



Detecting particles
(experiments)



Large-scale
computing
(analysis)



Discovery

CSC - a school with a long history

- The school was created in **1970**
 - 41st edition in 2018
- **2700** students of ~80 different nationalities have followed the school
 - usually 60-80 per year
 - alumni web site: <http://cern.ch/CSC/alumni>
- The school has visited 21 countries
 - <http://cern.ch/CSC/past-schools>
 - recent: Spain, Belgium, Greece, Portugal, Cyprus, Sweden



Mandate and mission

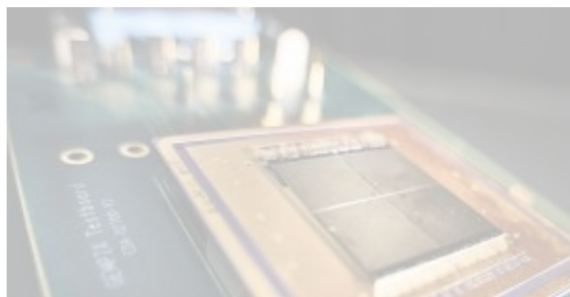
Create a common culture in scientific computing among young scientists and engineers involved in particle physics or other sciences as a strategic direction to promote mobility and to facilitate the development of large computing-oriented transnational projects.

Bridging science and computing

- Technological evolution in computing empowers science
 - especially in data-intensive domains such as High Energy Physics
 - **computing is the main strategy** for many scientific fields to do research efficiently on a large scale
- It is nowadays essential that:
 - **scientists master computing technologies** as a main tool for their research
 - **computer engineers understand the scientific needs** in order to deliver computing services to research projects

Three CERN Schools of Computing

iCSC 2018

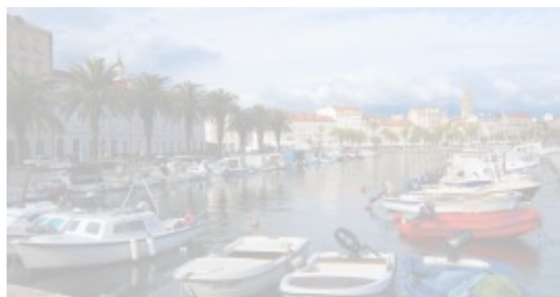


Inverted school

5 Mar - 8 Mar 2018

[CERN](#) | Geneva | Switzerland

tCSC 2018



Thematic school

3 Jun - 9 Jun 2018

[MEDILS](#) | Split | Croatia

CSC 2018



Main school

1 Oct - 14 Oct 2018

[Tel Aviv University](#) | Tel Aviv | Israel



We are here



CERN School *of* Computing

Organised in collaboration with Tel Aviv University (TAU)

**1-14
October 2018
Tel Aviv,
Israel**



TEL AVIV UNIVERSITY

CERN School of Computing 2018

- A two week long, intensive school
- Academic programme composed of three tracks
 - *Base Technologies*
 - *Physics Computing*
 - *Data Technologies*
- 55 hours of tuition
 - lectures
 - hands-on exercises (students working in pairs)
 - guest lectures
 - student presentations
- Exam → diploma

Academic dimension

CERN School of Computing is...

- **not a conference**
(lecturers do not present their work or promote their projects)
- **not a training session**
(not a replication of training courses commonly available at home institutes)

We focus on persistent knowledge,
less on know-how



Scientific, social and sport programme

- Tuesday afternoon: visits at Tel Aviv University
- Tuesday evening: opening dinner
- Wednesday evening: Japanika dinner and pub quiz
- Sunday afternoon: beach sports (paddle, surf, kayak)
- Monday evening: special talk: future of humanity
- Tuesday excursion: visit to Jerusalem and the Dead Sea
- Wednesday afternoon: traditional CSC football match
- Wednesday evening: Tel Aviv guided visit
- Thursday evening: special talk: history of Internet
- Saturday evening: closing dinner & party

Local Organizing Committee



- prof. Erez Etzion (chairperson)
- dr Yan Benhammou
- Riki Cohen
- Meny Raviv Moshe



Administrative manager: **Joelma Tolomeo**




Technical manager: Nikos Kasioumis



But what gives the most value
to the School?

CSC 2018 participants

 Applications **112**



71 students invited

- 41 different institutes (universities, labs) from 21 countries



UNIVERSITY OF BIRMINGHAM



BUAP



Istituto Nazionale di Fisica Nucleare



UNIVERSITÉ DE GENÈVE



GSI Helmholtzzentrum für Schwerionenforschung



Imperial College London



NAGOYA UNIVERSITY



UNIVERSIDAD DE OVIEDO



AGH

AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY



tu technische universität dortmund



Karlsruhe Institute of Technology



UNIVERSITY OF OXFORD



MPQ



Niels Bohr Institutet



LPNHE PARIS



JOHANNES GUTENBERG UNIVERSITÄT MAINZ



OAW Austrian Academy of Sciences



TEL AVIV UNIVERSITY



IAE CHINA INSTITUTE OF ATOMIC ENERGY



HELSINKI INSTITUTE OF PHYSICS



FACULTY OF SCIENCE Charles University



our future through science



GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN



LUND UNIVERSITY



CSC 2018 participants



Applications

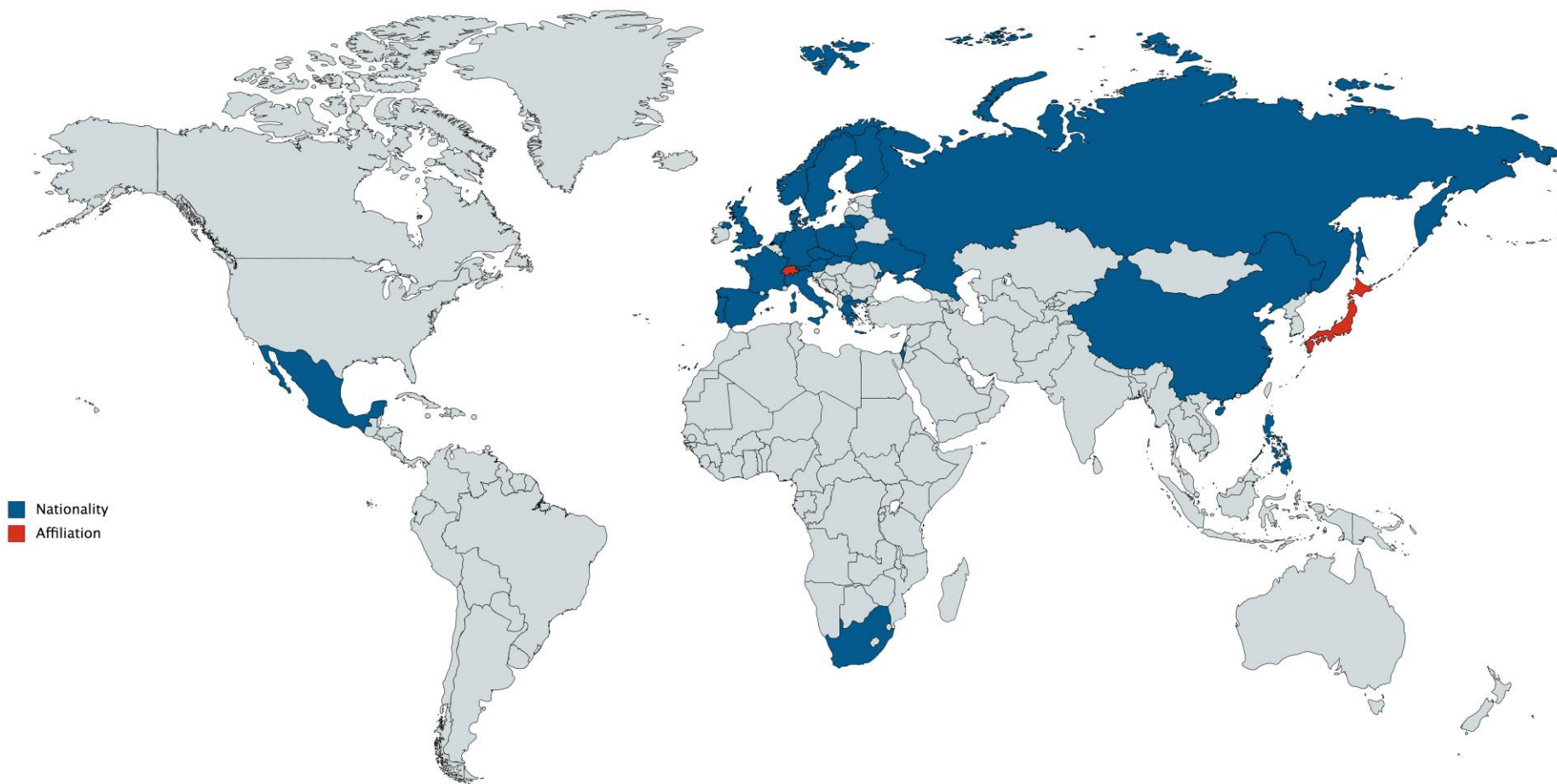
112



71 students invited

- 41 different institutes (universities, labs) from 21 countries
- 25 different nationalities
- 10 female students (14%)

CSC 2018 participants



Created with mapchart.net ©

It's a small world

All top scientists knows each other very well



CSC 2017 (Madrid, Spain)



School rules

School rule #1

Participate

- Attendance at all lectures and exercises is mandatory
- You must sign the presence sheet
 - at beginning of the day and in the afternoon
 - it is a condition to obtain the CSC diploma
- You should attend all meals and coffee breaks
- Taking part in social and sports events is **optional**
 - You must let us know whether you participate or not

School rule #2

Be on time

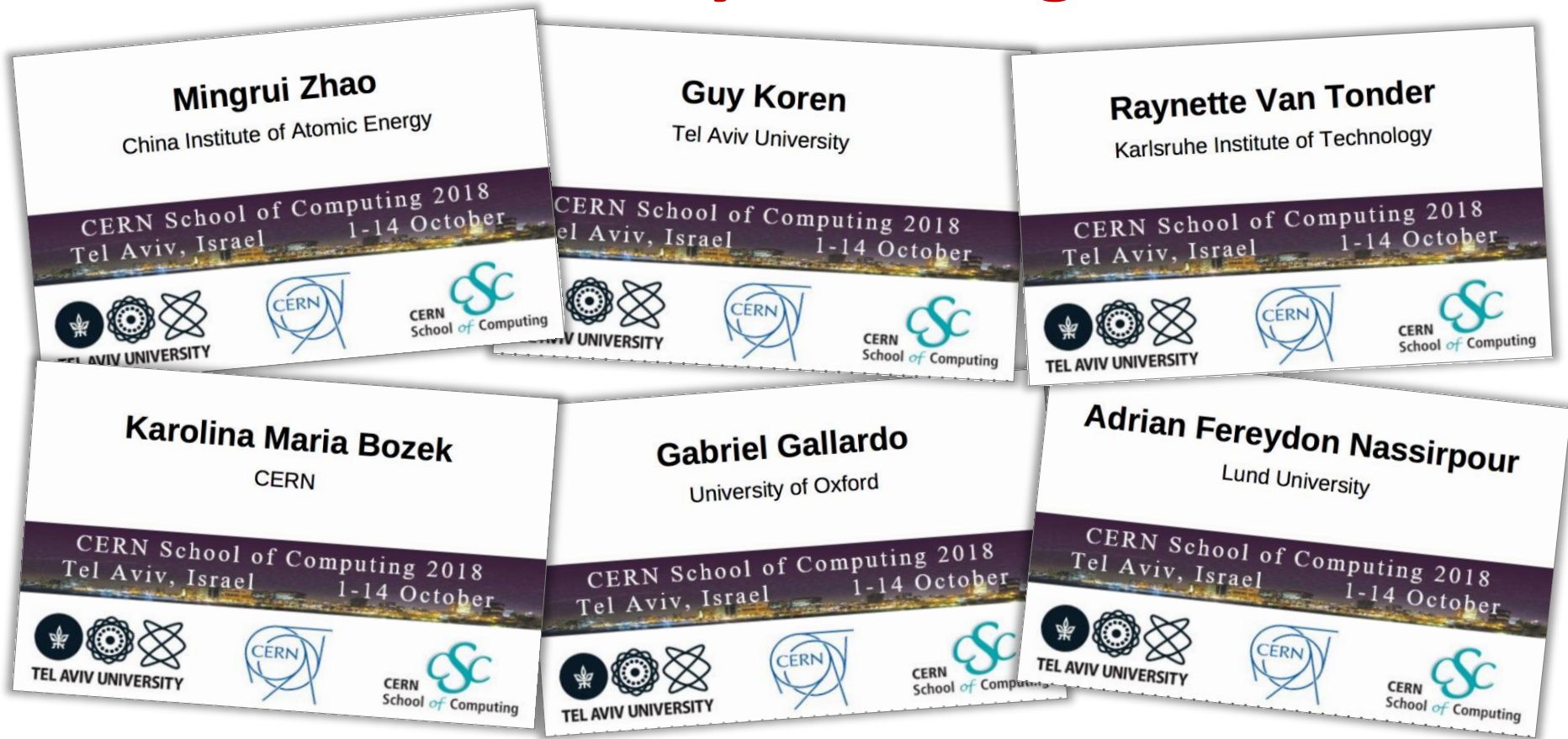
Check what the online schedule says:

- *“Lecture starts at 9:00”* → You must be in the room **before** 9:00
- *“The bus leaves at 18:00”* → It will leave at 18:00

If you're late, we won't wait

School rule #3

Wear your badge



School rule #4

**ENJOY AND PROFIT
FROM THE SCHOOL!**

Thank you



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