Welcome to tCSC 2018

CERN

Sveučilište u Splitu
University of Split

FESB

MEDITERRANEAN INSTITUTE FOR LIFE SCIENCES

tCSC 2018 Opening Ceremony

Sunday June 3, 15:30

"Welcome to University of Split and FESB"

by prof. Simun Andjelinovic, rector University of Split

by prof. Sven Gotovac, dean of FESB

"Welcome to Croatia, Dalmatia and Split"

by prof. Ivica Puljak, University of Split
(and chair of CSC Advisory Committee)

"Computing challenges for LHC"

by Frédéric Hemmer, CERN IT department head

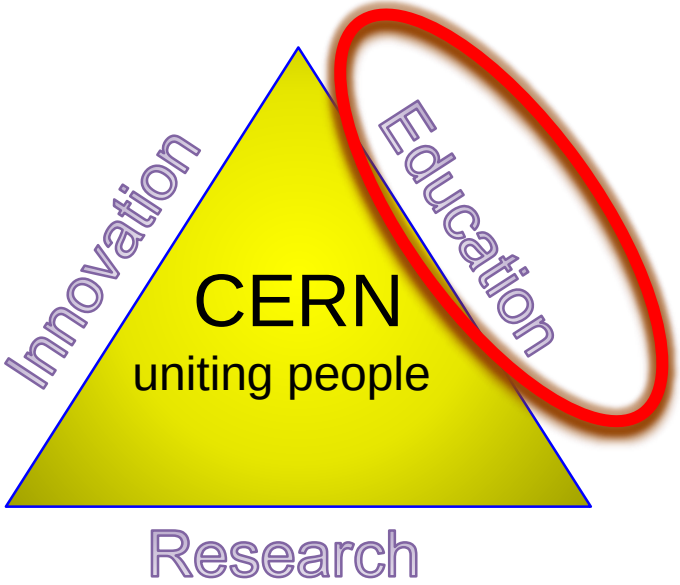
"Introduction to CERN School of Computing"

by Sebastian Łopieński, CERN, CSC director

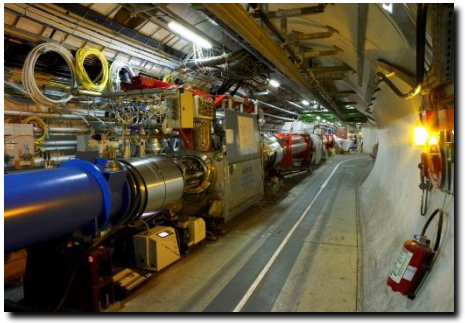
Introduction to the School

Sebastian Łopieński, CSC director

CERN's mission



We are here



Accelerating beams
(accelerators)

Detecting particles
(experiments)

Large-scale
computing
(analysis)

Discovery

CERN's three main schools

CERN Accelerator School (CAS)

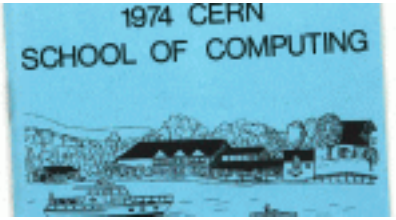
CERN School of Physics

CERN School of Computing (CSC)

We are here

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 50-80 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

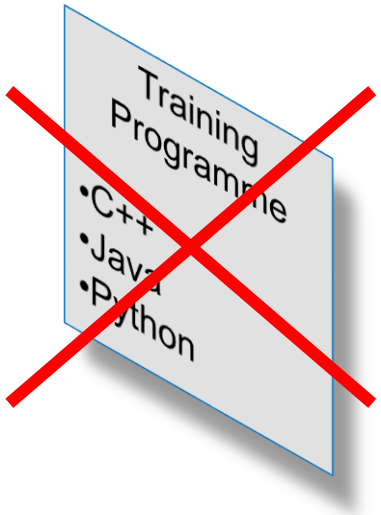
- It is nowadays essential that:
  - scientists master computing technologies as a main tool for their research
  - computer engineers understand the scientific needs in order to deliver computing services to research projects

Academic dimension

CERN School of Computing…

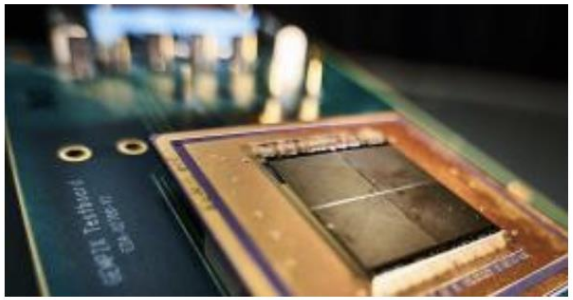
- is not a conference
  - lecturers do not present their work or promote their projects

- is not a training session
  - not a replication of training courses commonly available at home institutes
  - focus on persistent knowledge, less on know-how



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

We are here

CSC 2018

Main school

1 Oct - 14 Oct 2018

Tel Aviv University | Tel Aviv | Israel

6th Thematic CSC

- In a partnership with University of Split, FESB (Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture)
- 1 week (5.5 days of tuition)
  - 12 hours of lectures
  - 12 hours of exercises
  - 1 guest lecture, 1 special evening talk
  - a session of student presentations
- Clear goals:
  - Academic dimension
  - Theory and practice
  - Networking and socialising

6th Thematic CSC – programme

https://indico.cern.ch/event/689372/page/12457-academic-programme

"High Throughput Distributed Processing of Future HEP Data"

- 3 tracks:
  - *Technologies and Platforms*
    by Andrzej Nowak, TIK Services, Switzerland

  - *Parallel, Optimised Software Development*
    by Danilo Piparo, CERN
    and Sebastien Ponce, CERN

  - *Effective I/O for Scientific Applications*
    by Sebastien Ponce, CERN

But what gives the most value to the School?

28 participants

https://indico.cern.ch/event/689372/page/12464-participants

- 12 different nationalities
- 18 different institutes from 9 countries

- 2 BSc, 2 MSc students, 4 MSc, **19 PhD students**, 1 PhD
- 50%-50% computer science vs. physics
- **no female participant this year ☹**

- 6 students from previous main CSC students (2017, 2016)
- 3 local students from FESB, University of Split

- **Diverse, talented, passionate for science and technology**

KIT
Karlsruher Institut für Technologie

INFN
Istituto Nazionale
di Fisica Nucleare

AGH
AGH University of Science and Technology

CERN

Budker Institute of
Nuclear Physics

POLITECNICO
MILANO

POLITECNICO
DI MILANO

Imperial College
London

Science & Technology
Facilities Council

THE UNIVERSITY
of MANCHESTER

UNIVERSITÀ
DEGLI STUDI
DI MILANO

TECHNISCHE
UNIVERSITÄT
DARMSTADT

RWTH AACHEN
UNIVERSITY

Ernst-Abbe-Hochschule Jena
University of Applied Sciences

UNIVERSITY OF
THESSALY

universitätbonn

It’s a small world

All top scientists knows each other very well

tCSC 2017 *(Split, Croatia)*

Welcome to…

Andreas Alexopoulos, U.Thessaly, Greece
Fabrizio Alfonsi, U.Bologna, Italy
Luca Ambroz, University of Oxford, UK
Francesco Antoniazzi, INFN CNAF, Italy
Tom Byrne, STFC, UK
Julio Calvo Pinto, CERN
Diego Davila Foyo, CERN
Victor Jose Garcia Fernandez, CERN
Jochen Gemmler, KIT, Germany
Jan-Paul Hucka, T.U. Darmstadt, Germany
Jan Kapała, AGH, Poland
Stanko Kruzic, FESB U. Split, Croatia
Dominik Kulikowski, CERN
Alexander Melzer, U. Bonn, Germany
Andrea Merli, UNIMIA and INFN, Italy
Felix Metzner, KIT, Germany
Simone Mosciatti, CERN
Konstantin Pugachev, Budker Inst., Russia
Alexander Ruede, ErnstAbbeHS, Germany
Nicolas Scharmberg, U.Manchester, UK
Marcel Andre Schneider, CERN
Toni Sculac, FESB U.Split, Croatia
Antoni Shtipliyski, I.C.London, UK
Ralf Von Cube, RWTH Aachen, Germany
Vadim Wagner, T.U. Darmstadt, Germany
Zehua Xu, Tsinghua University, China
Darko Zarić, FESB U.Split, Croatia
Miha Zgubic, University of Oxford, UK

Introducing the CSC organisers

- Joelma Tolomeo
  - CSC administrative manager (+41 75 411 40 86)

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- Sebastian Lopienski
  - CSC director (+41 75 411 20 03)

Local tCSC organizing committee

FESB, University of Split

- Ivica Puljak - chairperson
- Nikola Godinović
- Damir Lelas
- Toni Šćulac

Local tCSC organizing committee

MEDILS (Mediterranean Institute for Life Sciences)

Irena

Lilina

School rules

School rule #1

Participate

- Attendance at all lectures and exercises is mandatory
- 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

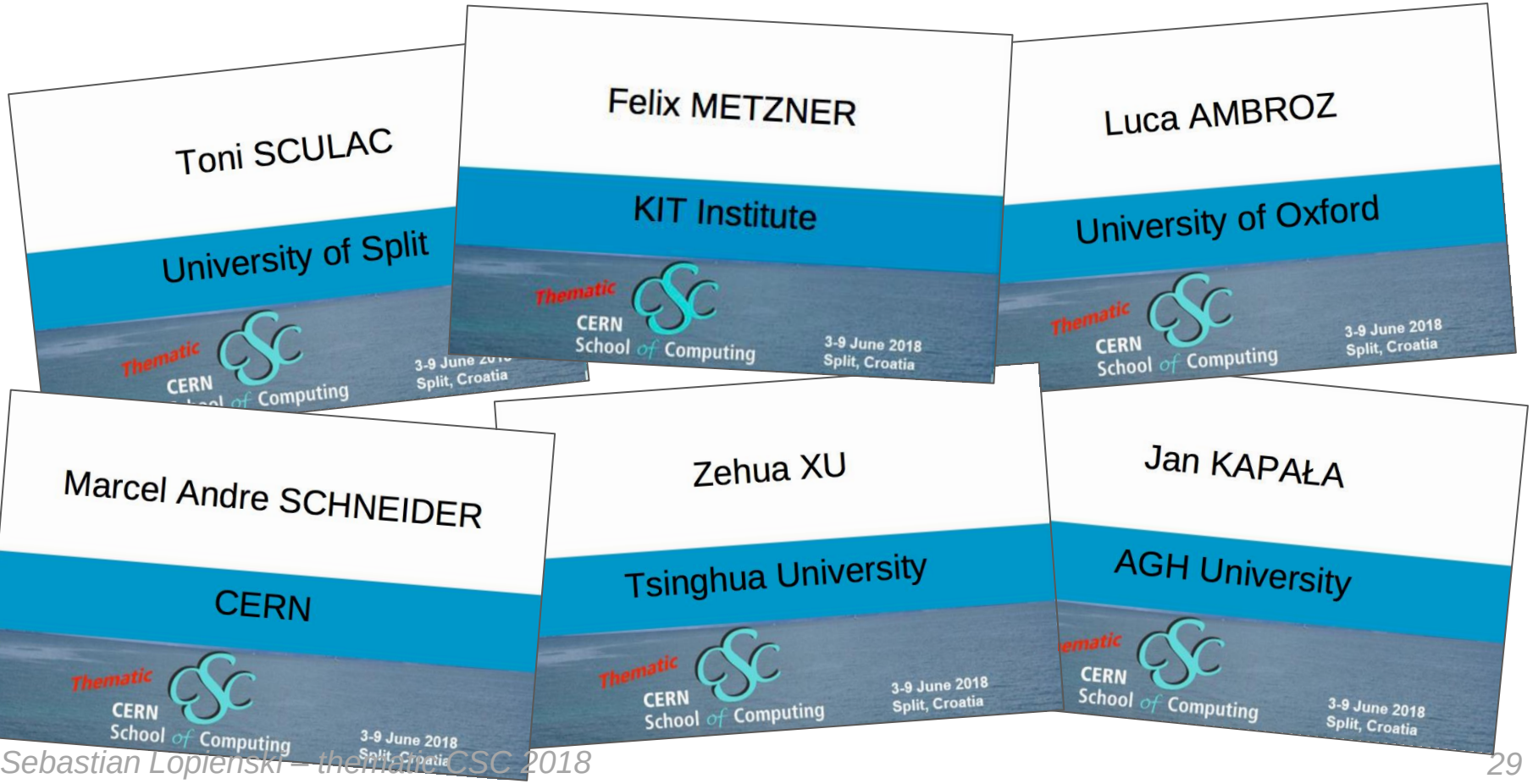
Check what the schedule says:

- *"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 PROTIF
FROM THE SCHOOL!

Sunday evening visit to Split

- 18:00 transport to Split
  (meeting at MEDILS reception)

- 18:15-20:00 guided visit to Split old town
- 20:15-22:30 Opening Dinner in
  Para di Soto

- around 22:30 transport back
  to MEDILS

- More details on **CSC Live**

CERN