

IDEA League Summer School „Infrastructures of Science“ (Vol. 1)

ETH Zurich, RWTH Aachen University, TU Delft, Politecnico Milano, Chalmers University Gothenburg
ETH Zürich 15th to 19th July 2019

Infrastructures of Science

Archives, collections, labs and machine parks are well known institutions that promote scientific research. From the 19th century on they have been developing into large scale research systems organizing methods, instruments and scientists' work. In the last decades we are witnessing that sciences have become more and more computer-based. Obviously, computing centers, networks and platforms are indispensable facilities for research, they are complementing and reconfiguring traditional technologies. In a historical perspective, digital infrastructures offer an unprecedented generalizability: they stimulate the production and circulation of methodological knowledge across a broad spectrum of academic disciplines.

The interdisciplinary Summer School seeks to understand the interplays of technology and science. It offers problem-oriented insights into the history and philosophy of digital infrastructures. In working groups we will analyze the mutual interdependence of scientific and technological change. The organizers of the Summer School aim for an engaged debate with all speakers and participants. The school combines seminar talks, with in-depth text discussions in a workshop setting, group works and outings to ETH institutions.

The school is jointly organized by ETH Zurich's chair for the history of technology and RWTH Aachen's chair for the philosophy of science and technology. It is hosted by ETH Zurich in July 2019 and will take place in Zurich and the nearby mountains (www.lihn.ch). The school thus offers 5 days in a unique learning atmosphere.

Date of the summer school

15 to 19 July 2019

Location of the summer school

Zurich, Switzerland.

Language

English

Application for the summer school (Deadline extended)

Please apply until ~~May 4th 2019~~ **May 15th 2019** via www.sirop.org.

IDEA League Certificate

Participants will get a certificate of attendance of the ETH Zurich.

Contact

If you have any questions concerning the summer school's content and program, contact Dr. Daniela Zetti, chair for the history of technology at ETH Zurich (zettid@ethz.ch) and Prof. Dr. Gabriele Gramelsberger, chair for the philosophy of science and technology at RWTH Aachen (gramelsberger@humtec.rwth-aachen.de).

Please ask the IDEA League contact person at your university about administrative details and check for the possibility to apply for travel grants. You will find the address along with further information

here http://idealeague.org/wp-content/uploads/2018/04/FAQ-IDEA-League-Summer-Schools_V2018.pdf.

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Program

July 2019	Monday 15 th	Tuesday 16 th	Wednesday 17 th	Thursday 18 th	Friday 19 th
10-13		History of scientific Infrastructures - <i>Sciences and the Internet</i>	Excursion and ETH LabWalks	Workshop <i>Open Science</i>	Presentations of group work and final discussion
14-16	Arrival at ETH Zürich or at Seminarhotel Lihn, Filzbach	- <i>The Politics of Computing Centers</i>	Free afternoon in Zürich	Workshop <i>Reproducibility</i>	
16-18	Welcome			Group work	
19	Dinner	Dinner		Gala Dinner	

Information about the program

Start: The summer school will start on Monday the 15th of July 2019 afternoon at ETH Zürich, Main Building, Rämistrasse 101, 8092 Zurich. Participants can join the group to travel on to the summer schools' location at Filzbach or go directly to Seminarhotel Lihn in Filzbach (individual journey). All participants receive railway vouchers for the trip from Zurich to Filzbach and Filzbach to Zurich.

Welcome: Get together drinks and conjoint travel to the hotel at the nearby mountains www.lihn.ch.

Workshop 1 & 2: History of Scientific Infrastructures

Sciences and the Internet

Topics: History and past futures of networks in science (19th to 21st century)

Daniela Zetti, ETH Zürich

Politics of Computing Centers

Topics: Science Policy, User Policies, History of Data Centers

David Gugerli and Ricky Wichum, ETH Zürich

Workshop 3: *Open Science*

Topics: Model and Data Platforms, Open Code, Git

Gabriele Gramelsberger and Dawid Kasprovicz, RWTH Aachen, Catharina Landström, Chalmers University Gothenburg

Workshop 4: *Reproducibility*

Topics: Data Reproducibility in Meteorology

tbd

Excursion and ETH LabWalks

Organisation by

ETH Zürich, History of Technology:

Prof Dr. David Gugerli, Dr. Daniela Zetti, Dr. Ricky Wichum

RWTH Aachen, Theory of Science and Technology:

Prof Dr. Gabriele Gramelsberger, Dr. Dawid Kasproicz

There will be a second summer school on infrastructures in science at RWTH Aachen in 2020.