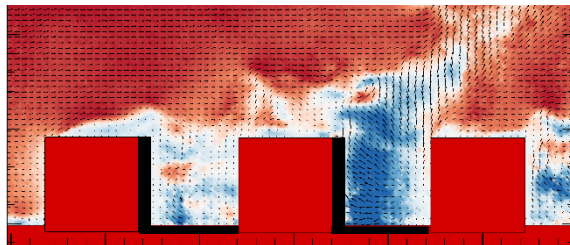


# Urban Physics Winter School 2019, 3-8 February, Ascona, Switzerland

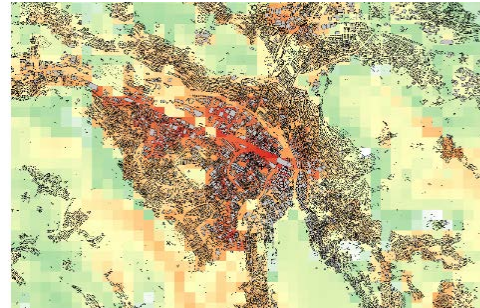
**Scope** The course aims at providing the participants in-depth knowledge on the latest advances in the field of climate science, building aerodynamics, meteorology, urban climate and water management, human physiology, and their application in urban design. Furthermore, the idea is to bring the participants in contact with leading researchers in the field, to provide for a constructive and open dialogue and to incite collaborations between modelers and experimentalists at an international level.



Flow visualization for array of heated cubes

**Registration** Participants can register until December 31, 2018 at the fee of 880 CHF per person. Late registration will cost 980 CHF. Registration fee covers course materials, accommodation (shared double room), and full board. Payment by credit card upon registration via online platform. For further information and registration please visit: <http://www.buildingphysics.ethz.ch>

**Program** The format of the course includes lectures, where the theory and background knowledge is taught by experienced researchers, and workshops, where theory is applied through practical examples. All lectures will be given in English. Lecture notes will be provided.



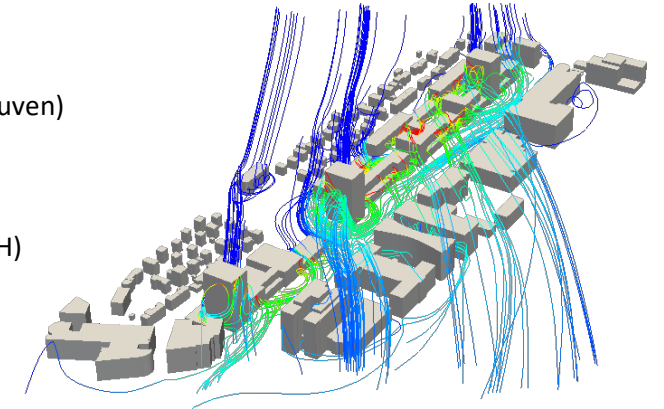
Simulated spatial distribution of 2-m air temperature in Zurich

**Accommodation** Participants will stay at the Congressi Stefano Franscini (CSF) conference centre at Monte Verita. The centre is situated on the hill behind Ascona, overlooking Lago Maggiore. Since a limited number of single rooms is available on site, room sharing is encouraged. For single rooms a surcharge has to be paid. Lunch and dinner are buffet meals with drinks and coffee included. The first meal is the evening meal on Sunday the 3rd, and the last meal is lunch on Friday the 8th. For further information on accommodation please see: <http://www.csf.ethz.ch/>

## Lectures

**CARMELIET** Jan (ETHZ-MAVT, CH)  
**BLOCKEN** Bert (TU/e, NL and KU Leuven)  
**NEOPHYTOU** Marina (UCY, CY)

**SCHAER** Christoph (ETHZ-USYS, CH)  
**SENEVIRATNE** Sonia (ETHZ-USYS, CH)  
**SCHUBERT** Sebastian (HU, D)  
**ALLEGRINI** Jonas (Empa, CH)  
**KELLER** Jens (Dantec Dynamics, D)  
**LEITAO** Joao (EAWAG, CH)  
**ROSSI** Rene (EMPA, CH)  
**DEROME** Dominique (EMPA, CH)



	Sunday 3/2/2019	Monday 4/2/2019	Tuesday 5/2/2019	Wednesday 6/2/2019	Thursday 7/2/2019	Friday 8/2/2019
Morning Session 1	Arrivals of participants	Climate change I	Mesocale urban climate modeling I	Wind tunnel for urban applications	Urban water management I	CFD for urban applications I
8:15 - 10:00		ETHZ-USYS (Schär)	HU (Schubert)	Empa (Allegrini)	EAWAG (Leitao)	TU/e (Blocken)
Break						
Morning Session 1		Climate change II	Mesocale urban climate modeling II	Workshop Wind tunnel measurements Dantec	Urban water management II	CFD for urban applications II
10:30 - 11:45		ETHZ-USYS (Schär)	HU (Schubert)		EAWAG (Leitao)	TU/e (Blocken)
11:45 - 12:15		Student presentations	Student presentations	Student presentations	Student presentations	
Lunch						
Afternoon Session 1		Land-climate dynamics I	Urban microclimate I	Social excursion	Thermal confort	Urban vegetation
13:45 - 15:30		ETHZ-USYS (Seneviratne)	ETHZ-MAVT (Carmeliet)		Empa (Rossi)	Empa (Derome)
Break						
Afternoon Session 1	Land-climate dynamics II	Urban microclimate II	Field measurements for urban applications		Departure of participants	
16:00 - 17:15	ETHZ-USYS (Seneviratne)	ETHZ-MAVT (Carmeliet)	UCy (Neophytou)			
17:15 - 18:00	Student presentations	Student presentations				
Dinner	Icebreaker	Dinner	Dinner	Social dinner	Dinner	