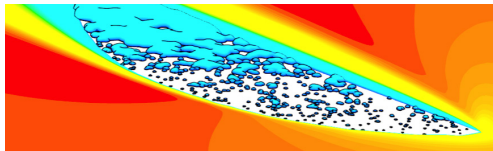


Urban Physics Winter School 2015, 25 - 30 January, Ascona, Switzerland

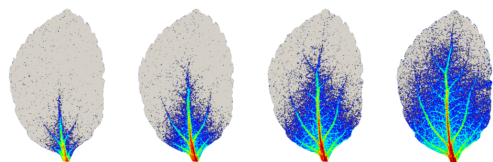
Scope The school aims at providing the participants with in-depth knowledge on the latest advances in the fields of climate science, building aerodynamics, meteorology, urban microclimate and human physiology, as well as on the impacts of these developments on e.g. the mitigation of urban heat islands, urban energy and the improvement of human comfort, safety and health. The idea is to bring the participants in contact with leading researchers in the field, to encourage a constructive and open dialogue and to incite collaborations between theorists and experimentalists at an international level.



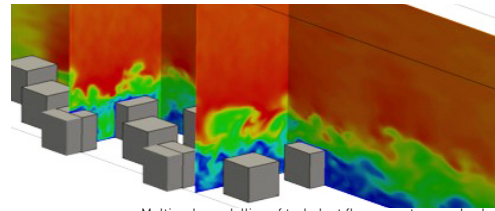
Moisture release from plant leaf into a developing boundary layer (Defraeye, et al. 2014)

Registration Participants can register until September 25, 2014 at the fee of 970 CHF (800 euro) per person. Later registration will cost 1270 CHF. Registration fee covers course material, accommodation (shared double room) and full board. Payments by credit card upon registration via registration platform. The number of participants is limited to 35.

For further information and registration please go to: www.carmeliet.arch.ethz.ch/Events/UP2015 →



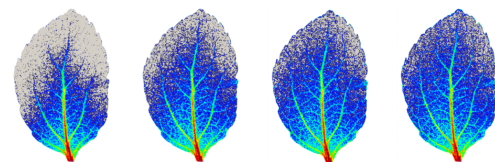
Programme The School starts with an icebreaker reception (Sunday). The lectures are thematically organized into four themes, namely air, water, fire and earth. Halfway a social excursion is planned. The tentative program can be found in the table below. All lectures will be taught in English. Lecture notes will be provided digitally.



Multiscale modelling of turbulent flow over staggered cubes (Vonlanthen, Carmeliet, 2014)

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. The registration form has an option to specify the name of someone you wish to share with. 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 25th, and the last meal is lunch on Friday the 30th.

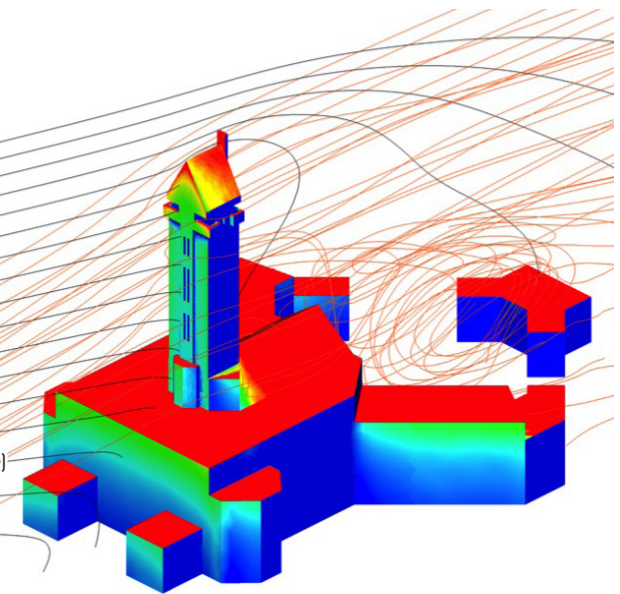
For further information on accommodation please see: <http://www.csf.ethz.ch/> →



Heavy water transport due to evaporation in leaves (Defraeye, et al. 2014)

Speakers

- ALLEGRIINI Jonas (Empa, CH)
- BARLOW Janet (Uni. Reading, UK)
- BLOCKEN Bert (TU/e, NL)
- BRUNNER Dominik (Empa, CH)
- BURLANDO Paolo (ETHZ, CH)
- CARMELIET Jan (ETHZ, CH)
- DEROME Dominique (Empa, CH)
- DEFRAEYE Thijs (KU Leuven, BE)
- LINN Rod (LANL, USA)
- MOONEN Peter (Uni. Pau, F)
- NEOPHYTOU Marina (UCY, CY)
- ROBINSON Darren (Uni. Nottingham, UK)
- ROSSI Rene (Empa, CH)
- SCHAER Christoph (ETHZ, CH)



Wind flow, raindrop trajectories and catch ratio on St. Hubertus tower, Netherlands (Kubilay, Derome, Blocken, Carmeliet, 2013)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Morning Session 1		climate change	human physiology	air pollution & atmospheric chemistry	urban hydrology & forecasting	urban ecosystems
8:15-10:00		Schaer	Rossi	Brunner	Brulando	Linn
Break						
Morning Session 2		urban meteorology	urban microclimate & breathability	student presentations	urban microclimate & wind-driven rain	urban microclimate & ecosystems
10:30-12:15	arrival of participants	Barlow	Neophytou		Derome	Defraeye
Lunch						
Afternoon Session 2		CFD for urban applications	wind tunnel for urban applications		city energy simulation	urban fire simulation
13:45-15:30		Blocken	Allegrini	social excursion	Robinson	Linn
Break						
Afternoon Session 2		multiscale modeling strategies	urban microclimate & wind comfort		urban microclimate & energy	departure of participants
16:00-17:45		Moonen	Blocken		Carmeliet	
Dinner	Icebreaker	Dinner	Dinner	Dinner	Dinner	