

Allegrini, Neophytou, Carmeliet (2015)

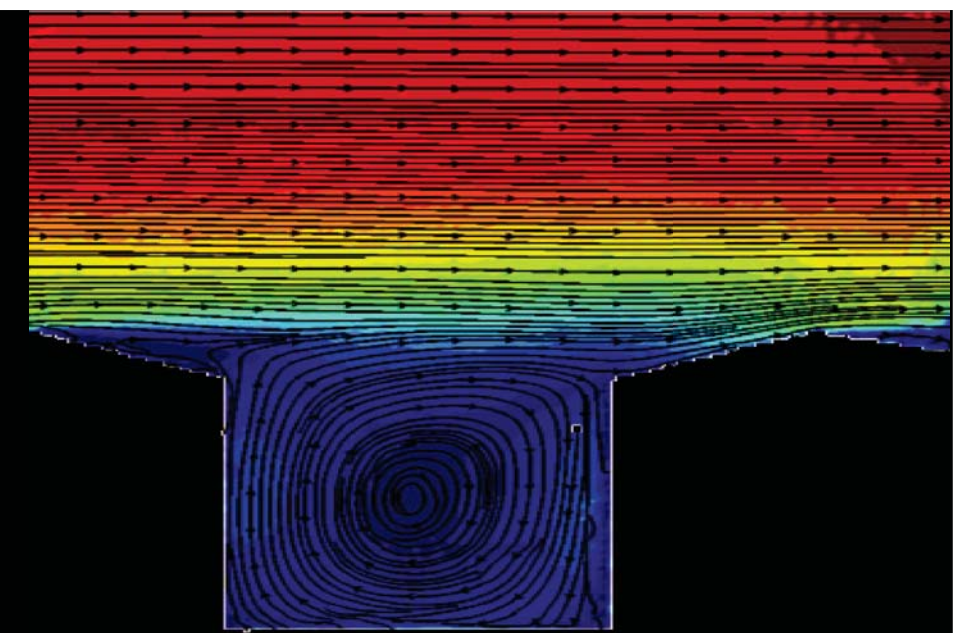
UP 2016

Urban Physics | Spring School 2016

URBAN PHYSICS: multi-scale, multi-phase and multi-disciplinary

An international specialised workshop
for doctoral students and postdoctoral researchers

8-13 May 2016, Paphos - Aphrodite Hills, Cyprus

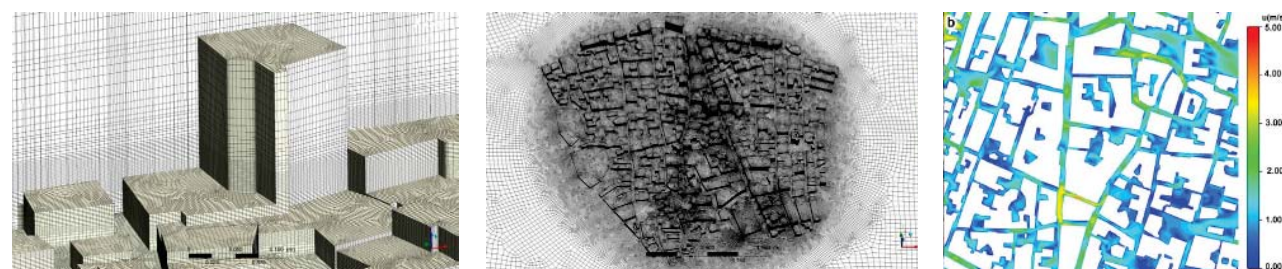


Loizou et al. (2015)

SCOPE

The school aims at providing an in-depth knowledge on the latest advances in urban microclimate with its multi-scale interactions ranging from the fields of climate science and turbulence to urban-scale and building-scale dynamics as well as more local phenomena. It will further provide participants with an in-depth understanding of methodological approaches such as Computational Fluid Dynamics and Wind-tunnel Modelling as well as to enrich them with concepts such as Uncertainty Quantification and Data Science.

The workshop envisions 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 as well as applications-orientated researchers at an international level.



Antoniou, Montazeri, Blocken, Neophytou (2015)

PROGRAM CONTENT

Climate (& Meteorology) across the Scales

Schaer Global-Regional Scale
Barlow Regional-Urban Meteorology
Carmeliet Urban Climate

Urban Climate (Phenomena & Interactions) & Urban Energy

Santamouris Urban Heat Island & Urban Energy
Neophytou Urban Fluid Dynamics & Heat Transfer
Derome Wind-driven Rain & Microscale Phenomena

Methods

Blocken Computational Fluid Dynamics (CFD)
Allegrini Laboratory Modelling (Wind tunnel)

Turbulence, Uncertainty Quantification and Data Science

Vassilicos Turbulence
Sagaut Uncertainty Quantification
Kyprianou Data Science

Applications

Brown Fast-response Modelling

Workshop

Bechtel WUDAPT (World Urban Database for Urban Climate)

The lecture series will be accompanied with a workshop on The World Urban Database and Access Portal Tools – WUDAPT - an ongoing worldwide initiative to collect data on the form and function of cities across the globe in order to map local climate zones and feedback large-scale models. This workshop will instruct you how you could contribute in this database with your own city data.

TIME SCHEDULE

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
8:30 - 9:30		Schaer	Santamouris	Blocken	Vassilicos	Brown
9:30 - 9:40		Short Break				
9:40 - 10:55		Schaer	Santamouris	Blocken	Vassilicos	Brown
10:55 - 11:10		Coffee Break				
11:10 - 12:10		Barlow	Neophytou	Allegrini	Sagaut	WUDAPT workshop practice
12:10 - 12:20		Short Break				
12:20 - 13:30		Barlow	Neophytou	Allegrini	Sagaut	
13:30 - 14:45		Lunch Break				
14:45 - 15:15		Student presentations	Student presentations	Bechtel	Student presentations	End of School and participants' departure
15:15 - 15:30		Coffee Break				
15:30 - 16:30		Carmeliet	Derome	Bechtel	Kyprianou	
16:30 - 16:40						
16:40 - 17:55	Icebreaker reception	Carmeliet	Derome	Cultural Excursion	Kyprianou	
19:30 - 20:30		Dinner Time				

INVITED SPEAKERS

Jonas Allegrini, EMPA, CH

Janet Barlow, University of Reading, UK

Bert Blocken, Eindhoven University of Technology, NL
Leuven University, BE

Michael Brown, LANL, USA

Jan Carmeliet, ETH-Zurich, CH

Dominique Derome, EMPA, CH

Andreas Kyprianou, University of Cyprus, CY

Marina Neophytou, University of Cyprus, CY

Pierre Sagaut, Aix-Marseille Université, FR

Manthos Santamouris, University of Athens, GR

Christof Schaer, ETH-Zurich, CH

Christos Vassilicos, Imperial College, UK

WUDAPT workshop instructor:

Benjamin Bechtel, University of Hamburg, DE

REGISTRATION

Early-bird registration fee: 990 euros (until 3rd April 2016)
Late registration fee: 1180 euros (after 3rd April 2016)

The school fee covers course registration, course material and accommodation for 5 nights (Sunday to Friday) on a full board basis.

Participants can register online via the course website www.urbanphysics.org, where full information and details on the course, travel and lodging can be found.

The number of participants is limited to 40 persons. The positions will be filled on a first-come, first-served basis.

VENUE & ACCOMODATION

Aphrodite Hills Resort Paphos

The school will take place in the heart of the Aphrodite Hills Resort, where it enjoys an exuberant garden setting overlooking Aphrodite's mythical birthplace shores. The location was selected for its inspirational nature and its rich history. Aphrodite was the ancient goddess of beauty and love, and her Hills are secluded with ample tranquility and unspoiled nature to inspire you with the desire and passion to excel in your pursuits.

The Aphrodite Hills Resort is situated between Limassol and Paphos and it is 15 minutes driving from Paphos airport. Since a limited number of single rooms is available on site, room sharing is encouraged. The online-registration form has an option to specify the name of someone you wish to share a room with. For single rooms a surcharge has to be paid. Breakfast, lunch and dinners are provided.

Source/Photos by: Mirko Bačani



Source/Photo by: www.aphroditehills.com

ORGANIZERS

Assoc. Prof. Marina Neophytou, UCy, Cyprus
Prof. Jan Carmeliet, ETH-Z, Zurich
Prof. Bert Blocken, TU Eindhoven

CONTACT

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Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich



SUPPORTERS:

