



Department of Civil, Chemical and Environmental Engineering  
Polytechnic School, University of Genova  
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**INTERNATIONAL ADVANCED SCHOOL on**  
**Thunderstorm outflows and their impact on structures**  
**Genova, March 9-13, 2020**

**PROGRAM**

<b>MONDAY March 9, 2020</b>		
Timetable	Lecturer	Topic
10:00-10:50	Giovanni Solari	Course Introduction and THUNDERR Project
11:00-11:50	Uwe Ulbrich	Synoptic and mesoscale meteorology
12:00-12:50		
13:00-14:00	Lunch Break	
14:00-14:50	Massimiliano Burlando	Wind monitoring and thunderstorm detection
15:00-15:50		
16:00-16:50	Uwe Ulbrich	Wind storms and climate changes
17:00-17:50		

<b>TUESDAY March 10, 2020</b>		
Timetable	Lecturer	Topic
9:00-9:50	Giovanni Solari	Downburst modelling and signal analysis
10:00-10:50		
11:00-11:50	Horia Hangan	Laboratory simulation of downbursts
12:00-12:50		
13:00-14:00	Lunch Break	
14:00-14:50	Bert Blocken	Fundamentals of CFD simulations
15:00-15:50		
16:00-16:50		
17:00-17:50	Ahsan Kareem	Monte Carlo simulation of wind velocity fields



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<b>WEDNESDAY March 11, 2020</b>		
Timetable	Lecturer	Topic
9:00-9:50	Leigh Orf	CFD simulation of downbursts
10:00-10:50		
11:00-11:50	Guido Buresti	Fundamentals of bluff-body aerodynamics
12:00-12:50		
13:00-14:00	Lunch Break	
14:30-18:00	International Advisory Board Meeting	

<b>THURSDAY March 12, 2020</b>		
Timetable	Lecturer	Topic
9:00-9:50	Frank Lombardo	Downburst wind loading of structures
10:00-10:50		
11:00-11:50	Ahsan Kareem	Gust front factor technique
12:00-12:50	Giovanni Solari	Thunderstorm response spectrum technique
13:00-13:50	Lunch Break	
14:00-14:50	Maria Pia Repetto	Full-scale monitoring of structures
15:00-15:50		
16:00-16:50	Ashraf El Damatty	Thunderstorms and transmission lines
17:00-17:50		

<b>FRIDAY March 13, 2020</b>		
Timetable	Lecturer	Topic
9:00-9:50	Yukio Tamura	Damage to buildings and structures by severe local storms and wind speed estimations
10:00-10:50		
11:00-11:50	Ted Stathopoulos	Perspectives of research on the effects of non-synoptic winds on buildings
12:00-12:50	Ted Stathopoulos	Non-synoptic winds on buildings: wind standards and codes of practice perspectives
13:00-13:50	Lunch	