



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA



European Geosciences Union Summer School 2013  
July 28 - August 4

## Understanding Earth-surface processes in the alpine environment from high resolution topography

### Sunday, July 28

10:00-18:00 Mestre train station, Venice and Treviso airport arrival  
Shuttle service (we will wait all the group)  
20:00 Check in at the Hotel Dolomiti (San Vito di Cadore)  
20:15 Dinner  
21:30 Welcome free time

### Monday, July 29

08:00 Breakfast  
09:00-09:30 Registration at the Center of Alpine Studies  
09:30-09:45 Welcome by the head of TESAF Dept. Giancarlo Dalla Fontana  
09:45-10:45 *High resolution topography: the new chapter of the Earth Sciences* (Paolo Tarolli)  
Coffee break  
10:45-11:00 *Tectonic geomorphology and coseismic displacements from high resolution topography* (Ramon Arrowsmith)  
12:00-13:00 *An overview of OpenTopography: A Portal to High-Resolution Topography Data and Tools* (Ramon Arrowsmith)  
13:00-14:30 Lunch break  
14:30-16:30 *GPS and TLS - theory* (Alberto Guarnieri)  
16:30-17:00 Coffee break  
17:00-19:00 *GPS and TLS - practice in the field* (Alberto Guarnieri)  
19:30 Dinner and free time

### Tuesday, July 30

06:30 breakfast and departure for Selva di Cadore  
09:30-19:00 high altitude expedition and field survey at Rio Cordon catchment (2300 m a.s.l.)  
*TLS and GPS survey* (Alberto Guarnieri, Simone Calligaro)  
*discovering Earth surface processes in the field* (Paolo Tarolli)  
19:00-20:00 amazing trail to Croda da Lago Palmieri lodge (2040 m a.s.l.)  
20:00-22:00 dinner & beer  
22:30-24:00 walking in the night along the path of the stars....

### Wednesday, July 31

07:00 breakfast  
08:00-09:00 return to Rio Cordon catchment  
09:00-13:00 *TLS and GPS survey* (Alberto Guarnieri, Simone Calligaro)  
*discovering Earth surface processes in the field* (Paolo Tarolli)  
13:00 Return to Center of Alpine Studies (light lunch on the road)  
14:30-16:30 *PC lab session on GPS and TLS data processing* (Alberto Guarnieri)  
16:30-17:00 Coffee break  
17:00-19:00 *PC lab session on TLS and airborne LIDAR data processing* (all the instructors)  
20:00 Dinner and free time

### Thursday, August 1

08:00 Breakfast  
09:00-10:00 *3d point cloud classification and comparison* (Dimitri Lague)  
10:00-10:30 Coffee break  
10:30-12:00 *From seeing to extracting: geomorphologically relevant image processing applied to high resolution topography* (Paola Passalacqua)  
12:30-14:00 Lunch break  
14:00-16:30 *PC lab session* (Dimitri Lague, Paola Passalacqua)  
16:30-17:00 Coffee break  
17:00-18:00 *PC lab session* (Dimitri Lague, Paola Passalacqua)  
18:10 Dinner  
20:00 Amazing sunset and dream at GIAU pass (2236 m a.s.l.)

### Friday, August 2

08:00 Breakfast  
09:00-10:30 *DEM uncertainties: sources, measurements, modelling and impacts* (Jean Stephane Bailly)  
10:30-11:00 Coffee break  
11:00-12:00 *Round Table: general discussion*  
12:00-14:00 Lunch break  
14:00-16:30 *PC lab session* (all the instructors)  
16:30-17:00 Coffee break  
17:00-18:30 *PC lab session* (all the instructors)  
19:00 Happy hour at Cortina D'Ampezzo  
20:30 Dinner

### Saturday, August 3

08:00 Breakfast  
09:00-10:30 *Round Table: the future challenges of high resolution topography*  
10:00-10:30 Coffee break  
10:30-12:30 *PC lab session* (all the instructors)  
12:30-13:30 light lunch in the PC lab  
13:30-16:30 *working group presentations*  
16:30-17:00 Coffee break  
17:00-18:30 *working group presentations*  
19:00 departure for Arabba  
20:00 *Social dinner at "Al Forte"*  
22:00-23:00 *EGU diploma ceremony*  
23:00-.... Best wishes and dancing  
.... Return to San Vito

### Sunday, August 4

09:00 Late breakfast and departure

**TESAF**

Land, Environment, Agriculture and Forestry Dept.  
Centre of Studies of Alpine Environment  
San Vito di Cadore, Dolomites (Italy)

