



GREEN CHEMISTRY UNITA SUMMER SCHOOL at USMB (University Savoie Mont Blanc, Le Bourget du Lac, France)

Open to Master's and PhD students in chemistry (4 ECTS)

All the delivered conferences, lectures, workshops, practical work and various teaching sessions are free of charge

Included: visits to sites of interest (companies), cocktail reception, poster session, buffet, banquet, cultural activity, practical session

Application: send a CV and motivation letter to mobilite-unita@univ-smb.fr before 15 April

All the times are Central European Summer Time (CEST)

On-line program (using teams)

Wednesday 10 June

5:00-6:00 pm	Kickoff meeting- (program presentation, instructions for posters and poster session)	Laurent Duclaux and other teachers
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Tuesday 16 June

5:00-6:00 pm	Lecture on-line: The circular economy during the energy transition	Bontempi Elza (Univ. Of Brescia)
6:00-6:15 pm	Quiz on the lecture using wooclap	Bontempi Elza /L Duclaux
6:15-7:15 pm	Lecture on-line: Hazard analysis in black mass industrial processing	Alberto Mannu (Univ. Of Brescia)
7:15-7:30 pm	Quiz on the lecture using wooclap	Alberto Mannu/L Duclaux

Thursday 18 June

5:00-6:00 pm	Lecture/Conference on-line Advanced wastewater treatment through photocatalysis part 1	Maria Covei (Univ. of Brasov)
6:00-6:15 pm	Quiz on the lecture using wooclap	Maria Covei/L Duclaux

6:15-7:15 pm	Lecture/Conference on-line Advanced wastewater treatment through photocatalysis part 2	Maria Covei (Univ. of Brasov)
7:15-7:30 pm	Quiz on the lecture using wooclap	Maria Covei/L Duclaux

Tuesday 23 June

5:00-6:00 pm	Lecture/Conference on-line	Patricia Ferreira (UNIZAR, University of Zaragoza)
	Green Chemistry and Biocatalysis part 1	
6:00-6:15 pm	Quiz on the lecture using wooclap	Patricia Ferreira /L Duclaux
6:15-7:15 pm	Lecture/Conference on-line Green Chemistry and Biocatalysis part 2	Patricia Ferreira (UNIZAR, University of Zaragoza)
7:15-7:30 pm	Quiz on the lecture using wooclap	Maria Covei/L Duclaux

Wednesday 24 June

5:00-6:00 pm	Green chemistry methods in carbon material elaboration	Laurent Duclaux
6:00-6:15 pm	Quiz on the lecture using wooclap	Patricia Ferreira /L Duclaux
6:15-7:00 pm	2 nd Kickoff meeting- (presentation of working group, exchange on abstract and posters posters, various questions, etc..)	Laurent Duclaux and other teachers

Face to face program from 29 June to 3 July (University Savoie Mont Blanc, Le Bourget du Lac, France)

Monday 29 June

9:00 am-10:15 am	Welcoming participants - Presentation of UNITA - Presentation of the school (Room 244, Building 8C)	
10:30 am-12:30 pm	Lecture: From Wood to Plastic's – Valorization of Hemicellulosic Biomass (Room 244, Building 8C)	Roger Marti (HES-SO)
12:30 pm-2:00 pm	Lunch	

2:00 pm-4:00 pm	Lecture: Waste Based Materials for technology (Room 244, Building 8C)	Ivano Alessandri (Univ. Of Brescia)
4:15 pm-5:15 pm	Presentation of team mini-project (Room 244, Building 8C)	Bernard David/ J.M. Lévêque (USMB)
5:30 pm -6:45 pm	Round Table (Bât EVE)	J.M. Lévêque (USMB) / Bernard David
6:45 pm- 8:15 pm	Cocktail- Apéritif	

Tuesday 30 June

9:00 am-10:00 am	Introduction to circular economy (Room 244, Building 8C)	Pierre Oueadraogo (Univ. Savoie Mont Blanc)
10:15 am-12:15 pm	Lecture/workshop: Life Cycle Assesment and Circularity (example of polymers) (Room 244, 150, 152, 154 Building 8C)	Carole Charbuillet (ENSAM, Le Bourget du Lac)
12:15 pm-1:30 pm	Lunch	
1:30 pm-3:00 pm	Team work on mini-project (Room 244, Building 8C)	
3:15-6:15 pm	Visit of industrial sites (Centre de tri, Trialp, Nantet, Plateforme compostage),	Gregory Chatel (USMB)

Wednesday 1 July

8:15 am-10:15 am	Lecture: Advances in green extraction: toward sustainable recovery of natural products (Room 244, Building 8C)	Giorgio Grillo (Univ. of Torino, Italy)
10:30 am-12:30 pm	Lecture: Green chemistry meets cavitation technology: sustainable routes for biomass valorization and water remediation (from lab to pilot scale) (Room 244, Building 8C)	Emanuela Calcio Gaudino (Univ. of Torino)
12 :30 pm-3:00 pm	Poster student sessions / Lunch (Buffet) Vote on posters (Bât EVE)	Teachers from USMB and UNITA
3:00 pm-6:00 pm	Cultural tour	

Thursday 2 July

8:15 am-10:15 am	Lecture: From biomass to valueadded products: heterogeneous catalysts and enabling technologies at work (Room 244, Building 8C)	Maela Manzoli (Univ. of Torino)
10 :30 am-12:30 pm	Workshop IA and Green Chemistry (Room 244, Building 8C)	Jean -Marc Leveque (USMB)
12 :30 pm-2:00 pm	Lunch	
2:00 pm-4:00 pm	Lecture: Closing the loop: green solvents from biomass for biomass valorization - (Room 244, Building 8C)	Silvia Tabasso (Univ. of Torino)
4:15 pm-6:15 pm	Team work on project (Room 244, 150, 152, 154 Building 8C)	

Friday 3 July

8:00 am-10:00 am	Lecture: Tailor-made Polyhydroxyalkanoates: A Class of Biopolymers with Unique Properties (Room 244, Building 8C)	Manfred Zinn (HES-SO)
10:15 am-11:45 am	Team work on project (Room 244, 150, 152, 154 Building 8C)	
11:45 am-1:00 pm	Lunch	
1:30 pm-3:30 pm	Practicals of green chemistry/ (Building Iseran)	L. Reinert / L. Duclaux/ N. Kardos / A. Aissat / B David / J- M. Lévêque (USMB)
3:45 pm-6:45 pm	Oral presentation of the miniproject (Room 244, Building 8C)	Teachers from USMB and UNITA
8:00 pm-11:30 pm	Banquet / Award of poster / Animation (Bât. EVE)	

Teachers from UNITA Universities

Prof. Roger Marti (Haute école d'ingénierie et d'architecture de Fribourg): From Wood to Plastic's

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Valorization of Hemicellulosic Biomass,
Email : roger.marti@hefr.ch

Prof. Manfred Zinn (HES-SO Valais-Wallis - Haute Ecole d'Ingénierie): Tailor-made Polyhydroxyalkanoates: A Class of Biopolymers with Unique Properties,
Email : manfred.zinn@hevs.ch

Prof. Ivano Alessandri (University of Brescia, Italy): Waste Based Materials for technology,
Email : ivano.alessandri@unibs.it

Prof. Elza Bontempi (University of Brescia, Italy): The circular economy during the energy transition, Email: elza.bontempi@unibs.it

Prof. Alberto Mannu (University of Brescia, Italy): Hazard analysis in black mass industrial processing, Email: alberto.mannu@unibs.it

Prof. Maria Covei (University of Brasov, Romania): Advanced wastewater treatment through photocatalysis,
Email : maria.covei@unitbv.ro

Prof. Giorgio Grillo (University of Torino, Italy): Advances in green extraction: toward sustainable recovery of natural products, Email : giorgio.grillo@unito.it

Prof. Emanuela Calcio Gaudino (University of Torino, Italy): Green chemistry meets cavitation technology: sustainable routes for biomass valorization and water remediation (from lab to pilot scale),
Email : emanuela.calcio@unito.it

Prof. Maela Manzoli (University of Torino, Italy): From biomass to value-added products: heterogeneous catalysts and enabling technologies at work,
Email : maela.manzoli@unito.it;

Prof. Silvia Tabasso (University of Torino, Italy): Closing the loop: green solvents from biomass for biomass valorization,

Email : silvia.tabasso@unito.it;

Prof. Patricia Ferreira Neila, (University of Zaragoza, Spain): Green Chemistry and Biocatalysis,
Email : ferreira@unizar.es