

Summer School Emory @ Unisi
Chemistry for Life & Environment
13th Edition, 27 May - 04 July 2016

27 May, Friday	
5.00 pm	Arrival of Emory Group. Check-in at Refugio residence
6.30	Introductory meeting at Refugio by summer program coordinator. Introduction to the program, teaching aids, internet connection, notes about Siena City, restaurants, pharmacies, supermarkets, laundries, etc...
8.00	Welcome Dinner at Spadaforte, Piazza del Campo
28 May, Saturday	
9.00 am	Emory Classes at Refugio
12.00	Lunch at Mensa Universitaria at Bandini, cards validation
2.00 pm	Visit to the "Museo Civico, Palazzo Comunale, Piazza del Campo" Guide, Gemma Stecchi
29 May, Sunday	
	Free Day in Siena
30 May, Monday	
OPENING OF THE SUMMER SCHOOL (San Miniato, Room #14)	
10.00	Introduction and Greetings Daniela Valensin - Unisi Coordinator of General Cooperation Agreement Emory/Unisi Angelo Riccaboni - Rector Unisi Annalisa Santucci - Director Department Biotechnology Chemistry & Pharmacy & Director Biochemistry & Molecular Biology PhD School Stefano Mangani - Director Chemical & Pharmaceutical Sciences PhD School Michael McCormick - Emory Representative Tracy Morkin McGill - Emory Representative Gabriella Tamasi - Executive Coordinator of Summer School Introduction of summer program and its educational purposes
11.15	Coffee break & Poster session
11.30	Presentations by Unisi Research Groups Claudio Rossi - New visions and perspectives in sustainable agriculture: synergy and multi-actors approach Elena Cini - Microwave-Assisted Reaction with Gas Reagents. A Green Approach to Decorated Molecules Gianluca Giorgi - Mass spectrometry in organic chemistry: from structural to stereochemical and conformational characterization Enrico Tavarnelli - The depositional and tectonic history of ridges and basins of Southern Tuscany: geological controls on the quality of wines and food produced in Val d'Orcia and in the Chianti mts
12.45	Buffet & Posters session
2.00 pm	Conclusions

31 May, Tuesday	
9.00 am	Emory Classes at Refugio
01 June, Wednesday	
9.00 am	Emory Classes at Refugio
02 June, Thursday Italian Civic Holiday (Festa della Repubblica)	
9.00 am	Emory Classes at Refugio
03 June, Friday	
	Emory Students and Faculties visiting Florence
04 June, Saturday	
	Free Day in Siena
05 June, Sunday	
	Free Day in Siena
06 June, Monday	
9.00 am	Emory Classes at Refugio
12.00	First program evaluation, forms filling for Emory Students
07 June, Tuesday - Day at San Miniato (Room #7)	
9.30-10.20 am	Unisi Lecture Session Neri Niccolai Structural Bioinformatics: a side effect of the post-genomic revolution
10.30-11.20	Stefano Mangani Closing the gap between Ångström and micron scale for a deeper understanding of biological systems. The opportunity offered by integrating synchrotron x-ray diffraction, spectroscopic and imaging techniques
11.30-12.30	Emory students meet Unisi Students Students present their own experiences at Universities. Teachers excluded!
12.30	Lunch time at San Miniato Mensa
2.30-5.30 pm	Parallel Unisi Laboratory Session Marco Consumi Time of flight secondary ion mass spectrometry (ToF-SIMS): theory and applications Manuela Benvenuti Lysozyme crystallization
08 June, Wednesday	
9.00 am	Emory Classes at Refugio
09 June, Thursday	
9.00 am	Emory Classes at Refugio

10 June, Friday FIELD-TRIP TO BARONE RICASOLI SPA AGRICOLA (BROLIO, GAIOLE IN CHIANTI)	
9.30	Departure from Porta Romana
10.00	Arrival at Brolio
10.15	Guided visit and class in the vineyards about Sangiovese and other vines growing, treatments, ... and guided visit and class in the cellars about wine production and aging
12.00	Wine tasting
13.00	Lunch at Restaurant Cantine Barone Ricasoli, typical Chianti foods
2.30 pm	Guided visit to the Ricasoli Castle, old enological laboratory of Barone Bettino Ricasoli, History of Chianti and Italy
4.30	Return to Siena
11 June, Saturday	
	Free Day in Siena
12 June, Sunday	
	Free Day in Siena
13 June, Monday	
9.00 am	Emory Classes at Refugio
14 June, Tuesday	
9.00	Emory Classes at Refugio
15 June, Wednesday - Day at San Miniato (Room #9B)	
10.00-10.50 am	Unisi & Emory Lecture Session Steven Loiselle & Luisa Galgani Photochemistry at the Ocean's Surface: Effects and Interaction of Dissolved Organic Matter with Microplastics - POSEIDOMM
11.00-12.00	Francesco Evangelista – Emory University Quantum chemistry of strongly correlated electronic states
12.30	Lunch time at San Miniato Mensa
2.30-5.30 pm	Parallel Unisi Laboratory Session Gianluca Giorgi Mass spectrometry in practice: what is your weight and what is your structure? Vanessa Volpi High-throughput, multi-scale physicochemical study of context, landscapes and archaeological finds, a new predictive/descriptive archaeometric approach Nicola Nelli Continuous multilayered composite hydrogel as osteochondral substitute
16 June, Thursday	
9.00 am	Emory Classes at Refugio

17 June, Friday	
Two Days Cultural trip to Montalcino territory (Domenico Picciolo)	
10.30 am	Departure to Montalcino (by line bus)
12.00	Arrival to Montalcino
12.15	Welcome & Lunch
1.30 pm	Check-in to the B&Bs and free time
3.30	Visit to the Montalcino's museum and Fortress. Guide Silvia Roncucci
7.30	Typical Montalcino/Tuscany Dinner
18 June, Saturday	
Two Days Cultural trip to Montalcino territory (Domenico Picciolo)	
7.30 am	Breakfast
8.00	Trekking from Montalcino Fortress to Abbazia di Sant'Antimo (ca 10 km)
11.30	Guided visit to Azienda Agraria "La Mágia". Class on Sangiovese Grosso variety and Brunello winemaking and aging processes
12.30	Lunch and wine tasting at Agriturismo
1.30 pm	Leaving from Agriturismo towards Abbazia di Sant'Antimo
2.45	Visit to Abbazia di Sant'Antimo, its history, architecture, ... and possibly attendance to <i>Ora Nona</i> and Canto Gregoriano by Monaci Premonstratensi
4.00	Return to Siena
19 June, Sunday	
	Free day in Siena
20 June, Monday	
9.00 am	Emory Classes at Refugio
21 June, Tuesday - Day at San Miniato	
9.30-10.20 am	Unisi Lecture Session Agnese Magnani Biosensing technologies: examples and applications
10.30-11.20	Rebecca Pogni Electron Paramagnetic Resonance in enzymatic catalysis: the case study of ligninolytic enzymes
11.30-12.20	Maurizio Taddei The central role of organic chemistry in antibody drug conjugate based cancer therapy
12.30	Lunch time at San Miniato Mensa
2.30-5.30 pm	Parallel Unisi Laboratory Session Elena Petricci Microwave-Assisted Reaction with Gas Reagents. A Green Approach to Decorated Molecules Lia Millucci - Congo Red staining of human tissues sections