



MACSUR Modelling Course

“Model oriented field experiments for climate change impact assessment”

organised by
Marco Bindi University of Florence and John R Porter University of Copenhagen

Florence, Italy, November 10th – 13th, 2014

Course description:

The goal of the course is to allow PhD and other students to develop a crop simulation model from basic processes such as phenology, leaf area development, dry matter production and the responses of processes to environmental factors. The students will be required to write a report describing their model and its simulation of data from experiments. The course will be worth 5 ECTS. The course will also present lectures on topics such as the latest IPCC report (Bindi and Porter are authors of this report), ongoing networks and activities related to crop modelling in Europe.

Targeted participants:

PhD candidates and young researchers with interest in developing and/or using crop simulation models and who wish to reinforce their skills in modelling and experimental techniques. The max number of participants is 25.

Course teachers:

Professor John R Porter Climate and Food Security, University of Copenhagen, Denmark

Professor Marco Bindi Department of Agri-food Production and Environmental Sciences - University of Florence

Professor Henrik Eckersten Department of Crop Production Ecology, Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden

And with the participation of the Co-Coordinator of the CropM Theme within MACSUR (Prof. Reimund Rotter and Prof. Frank Ewert)

Pre-reading text:

The Physiology of Crop Yield. Second edition. By R. K. M. Hay and J. R. Porter. Oxford: Blackwell Publishing (2006), pp. 314

Costs:

PhD's and staff of MACSUR partners	600 €
External Participants	800 €

Course Timetable:

Date	Time	Items	Teachers
Sunday 9 Nov. Day 0	17.00 - 20.00	Arrival and welcome party	All
Monday 10 Nov. Day 1	08.00 - 09.00	Registration	
	09.00 - 09.30	Welcome and introduction	All teachers (Porter, Bindi and Eckersten)
	09.30 - 11.00	Lecture: Impact of climate change on crops I part	Porter
	11.00 - 11.30	Break	
	11.30 - 13.00	Lecture: Impact of climate change on crops II part	Porter
	13.00 - 14.30	Lunch	
	14.30 - 16.00	Lecture: Crop modelling I part	Eckersten
	16.00 - 16.30	Break	
	16.30 - 18.00	Lecture: Crop modelling I part	Eckersten
	Evening	Free dinner	
Tuesday 11 Nov. Day 2	09.00 - 09.30	Recap from previous day	All teachers (Porter, Bindi and Eckersten)
	09.30 - 11.00	Lecture: Model oriented field experiments I part	Bindi
	11.00 - 11.30	Break	
	11.30 - 13.00	Lecture: Model oriented field experiments II part	Bindi
	13.00 - 14.30	Lunch	
	14.30 - 16.00	Hands-on exercises: field experiment and crop modelling on phenology (I part)	All teachers (Porter, Bindi and Eckersten)
	16.00 - 16.30	Break	
	16.30 - 18.00	Hands-on exercises: field experiment and crop modelling on phenology (II part)	All teachers (Porter, Bindi and Eckersten)
	Evening	Free choice dinner	
Wednesday 12 Nov. Day 3	09.00 - 09.30	Recap from previous day	All teachers (Porter, Bindi and Eckersten)
	09.30 - 11.00	Hands-on exercises: field experiment and crop modelling on growth (I part)	All teachers (Porter, Bindi and Eckersten)
	11.00 - 11.30	Break	
	11.30 - 13.00	Hands-on exercises: field experiment and crop modelling on growth (II part)	All teachers (Porter, Bindi and Eckersten)
	13.00 - 14.30	Lunch	
	14.30 - 16.00	Hands-on exercises: field experiment and crop modelling on stresses (I part)	All teachers (Porter, Bindi and Eckersten)
	16.00 - 16.30	Break	
	16.30 - 18.00	Hands-on exercises: field experiment and crop modelling on stresses (II part)	All teachers (Porter, Bindi and Eckersten)
	Evening	Course dinner	
Thursday Day 4	09.00 - 11.00	Presentation of the results of exercises	Students
	11.00 - 11.30	Break	
	11.30 - 12.00	Example of CropM activities: Effects of spatial crop modelling upscaling on crop yields	Frank Ewert (co-coordinator of CropM)
	12.00 - 12.30	Example of CropM activities: Use of large ensemble of crop models and impact response surfaces in climate change crop assessments	Reimund Rotter (co-coordinator of CropM)
	12.30 - 14.00	Lunch	
	14.00 - 15.00	Course and student evaluation	All
	15.00 -	Departure	

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Registration:

For registration please fill in the form (see below) and send it to marco.bindi@unifi.it

Contact persons:

Marco Bindi, marco.bindi@unifi.it

Giacomo TROMBI, giacomo.trombi@unifi.it

Roberto FERRISE, roberto.ferrise@unifi.it

Camilla DIBARI, camilla.dibari@unifi.it

Tel: 0039 055 32 88 446

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REGISTRATION FORM

Name	
Surname	
Institution	
Degree (Institution, Date, Topic)	
Email	
Phone (+XX XXX XXXXXXXX)	
Address	

Please attach your up-to-date curriculum vitae (preferably EU cv format)

Place and Date

Signature

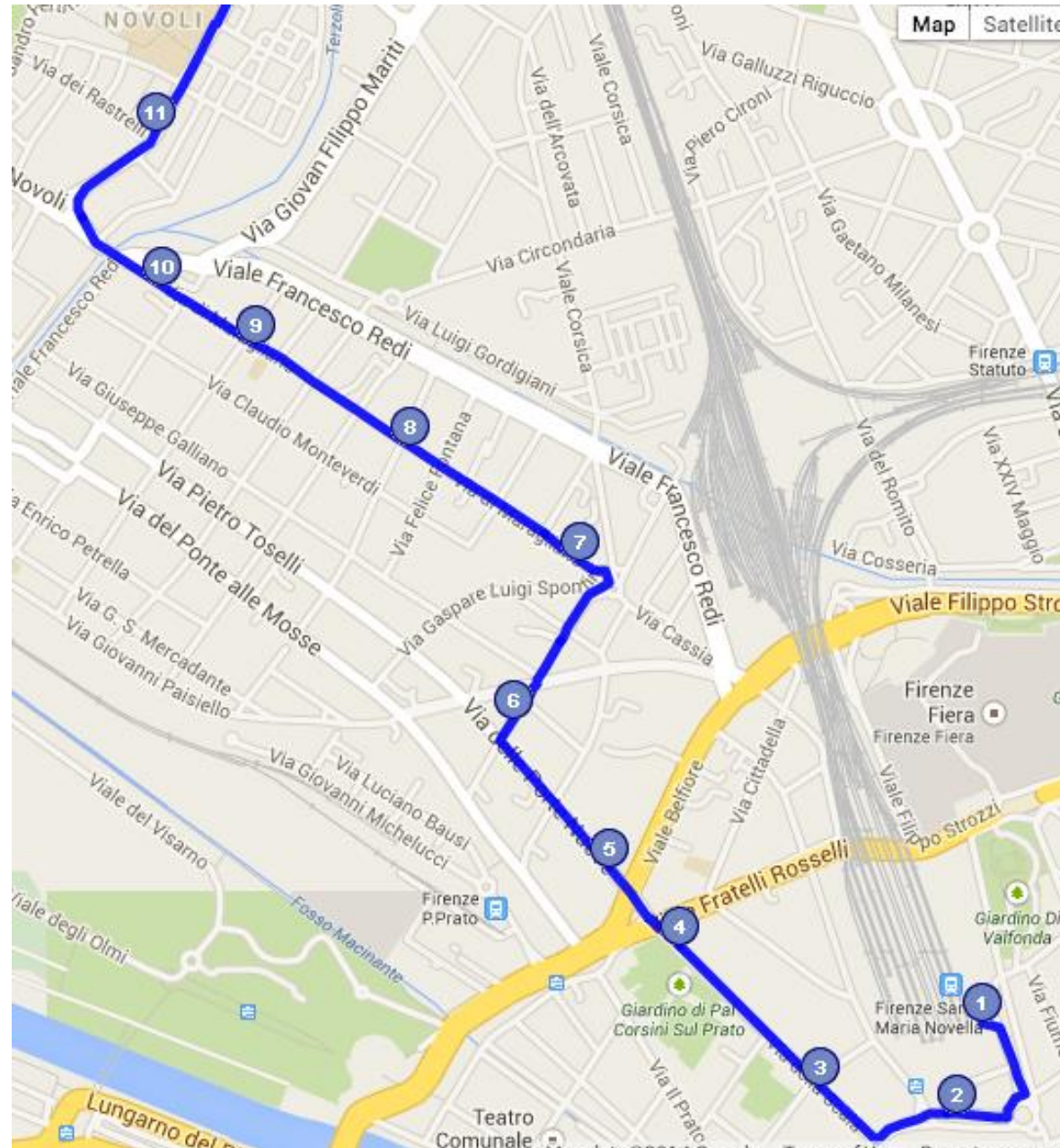
Lectures location – all days

Address: Polo di Novoli (Università degli Studi di Firenze)
Edificio D15 (building) Aula 1.02 (Room)
Piazza Ugo di Toscana 5
50127 Firenze (Florence) – Italy
[google maps](#)

coordinates: 43.7927407, 11.2298156

Getting there: **By BUS.** Take number **57** from the the city center (e.g. from the railway station) in **direction "Sesto Fiorentino Mille"**, get off at **"Pegolotti"** bus stop (stop #11), cross the street and walk north, turn left at the first cross in via Fazzi, then walk until piazza Ugo di Toscana, the building D15 is on your right. Another option is number **22** from the city center (e.g. from the railway station) in **direction "Lippi e Macia"**, get off at **"Ragghianti"** (stop #12) bus stop. Then walk north in via de'Barucci to its end: on your right there is piazza Ugo di Toscana: the D15 building is at the opposite corner. The bus stop for both buses is right in the middle between the railway station building and the apsis (the back side) of the Santa Maria Novella church (which is, do not worry, almost impossible to miss it since it is pretty big!). The **ticket** must be bought in advance (€ 1,20) in a newspaper kiosk or in the bus company shop in front of the right side of the railway station (if you watch it from the church); otherwise you will have to pay more (if bought on board). Once on board, remind to **stamp your ticket** in the machine. The journey will take approximately 15-20 minutes. Ask the driver to tell you where to get off (just tell the bus stop name).

Figure 1 - route of bus #57



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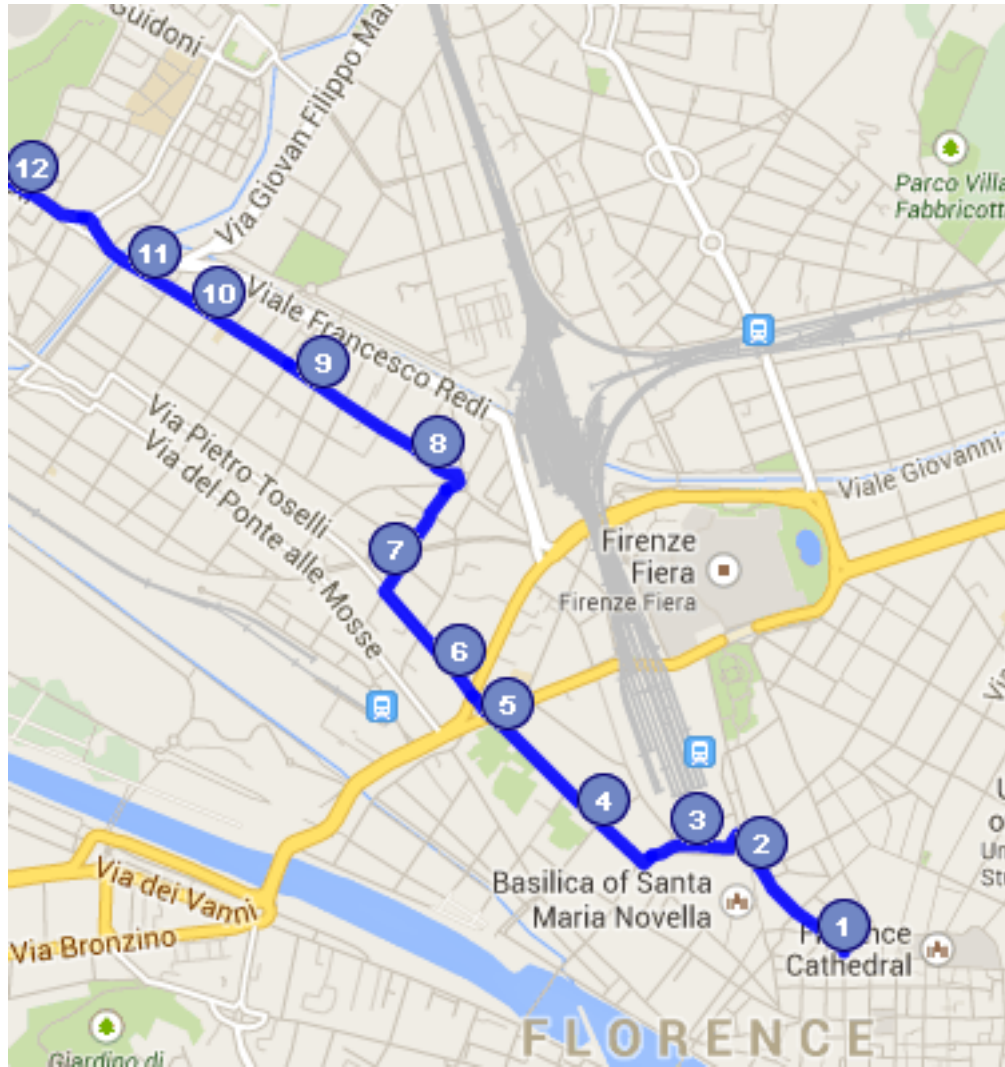
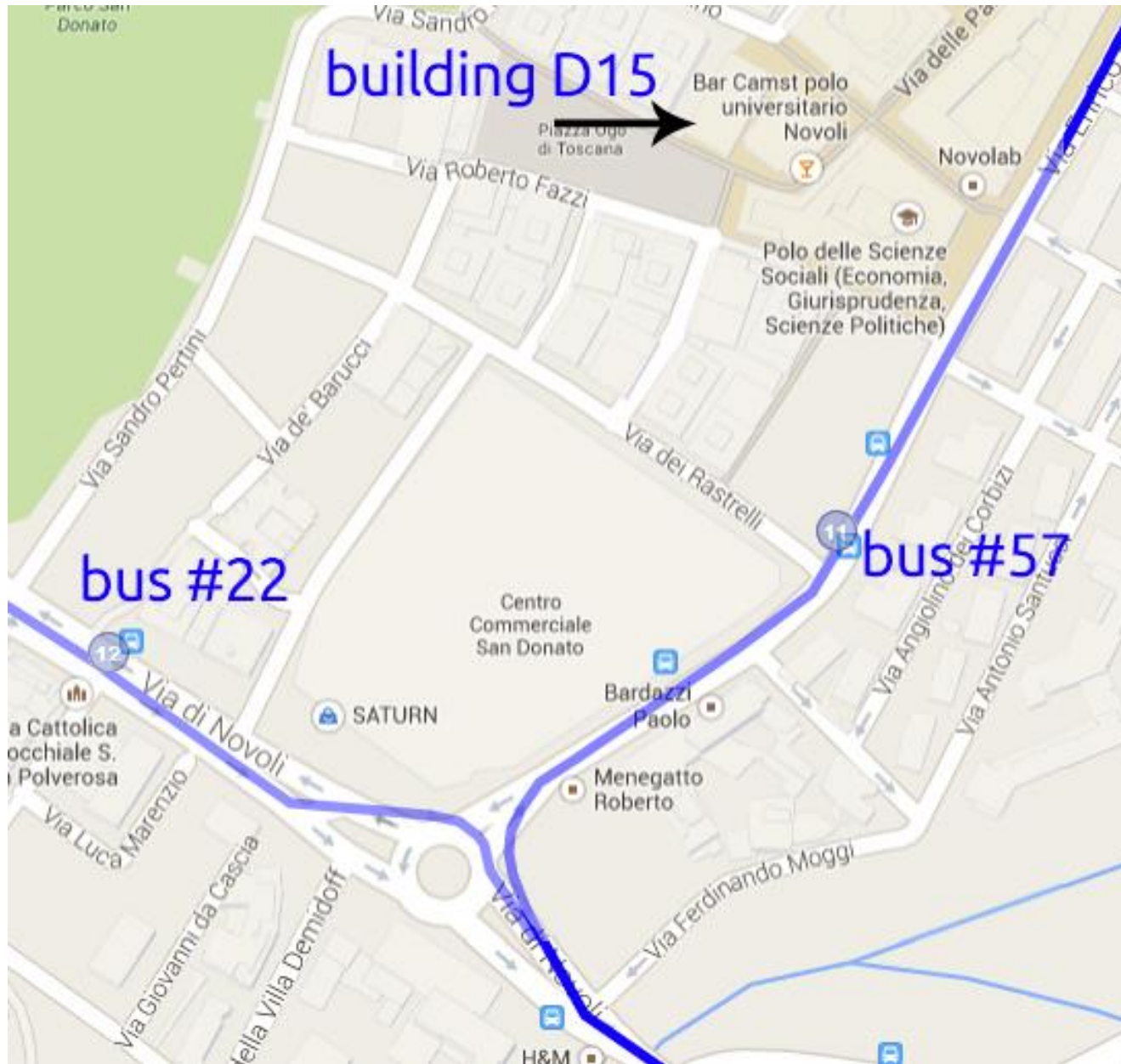
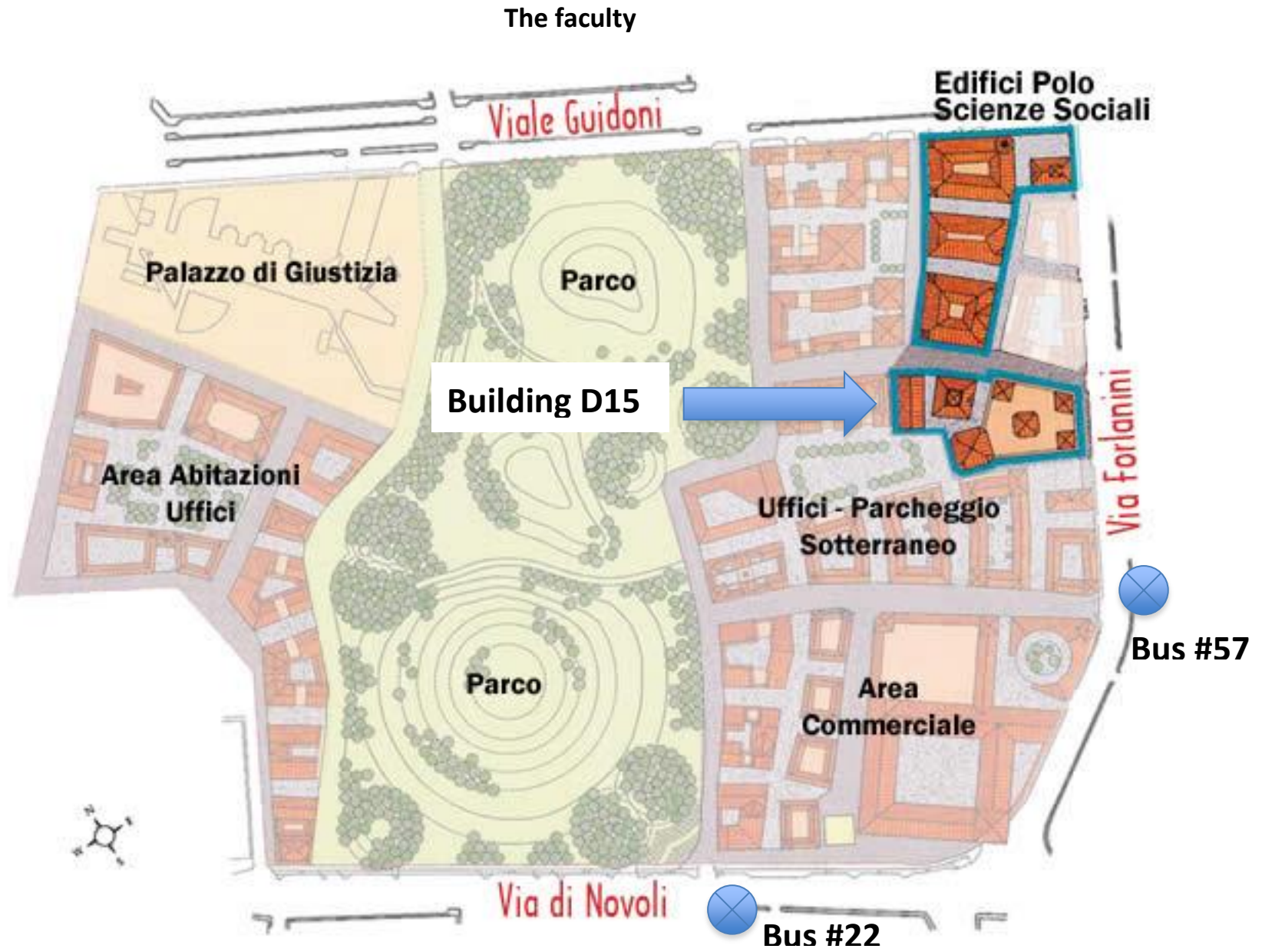


Figure 2 - route of bus #22



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Indicative list of hotels and bed & breakfast

Name	Address	URL	E-MAIL	Phone	Fax	Price for 1 Single room	Price for 1 Double room
Hotel Lombardi (railway station)	Via Fiume, 8 50123	http://www.hotel-lombardi.net	hotel.lombardi@dada.it	+39.055.283.151	+39.055.284.808	45-55€	60-70€
Hotel Bonciani (city center / railway station)	Via Panzani, 17 50125	http://www.hotelbonciani.it	reservation@hotelbonciani.it	+39.055.267.01.58	+39.055.268.512	45€	55€
Hotel Bretagna (Arno River)	Lungarno Corsini, 6	http://www.hotelbretagna.net	info@hotelbretagna.net	+39.055.289.618	+39.055.289.619	79€	99€
Alloro Bed&Breakfast	Via del Giglio, 8	https://www.allorobb.it	info@allorobb.it	+39.055.211.685	+39.055.26.50.161	48-63€	78-107€
San Frediano Mansion B&B	Borgo San Frediano, 8	http://www.sanfredianomansion.com	info@sanfredianomansion.com	+39.055.212.991 +39.339.667.9005	+39.055.26.75.413	80€	87-135€

We strongly recommend to book quite in advance (not later than september). *All prices include wi-fi and breakfast.*

Important: To all the prices a € 3.00 "staying fee" has to be added (*which must be paid in cash*)

Note: if everything is booked out, or you just want something else, we have some more suggestion.