

## Programme of the school

Monday 14 May

Time	Trainer	Activity
08:30 - 09:00		Registration.
09:00 - 09:30	L. Pajewski F. Mussgnug	Opening Session: Welcome to participants. Introduction to the school and to the Sapienza "Conferences, Seminars and Workshops" programme. Introduction to the UCL "Rome Regional Engagement" programme.
09:30 - 11:00	L. Pajewski	GPR basic principles, capabilities and limits. GPR applications. Choice of GPR equipment for different applications.
11:00 - 11:30		Tea & Coffee Break
11:30 - 13:00	R. Persico	Reconfigurable stepped-frequency GPR prototype for civil-engineering and archaeological prospecting, developed at the National Research Council of Italy. Examples of application and case studies.
13:00 - 14:00		Pizza Lunch
14:00 - 16:00	L. B. Lok	FMCW principles. The FMCW GPR prototypes developed at the University College of London (UCL), in United Kingdom. Examples of application and case studies.
16:00 - 16:30		Tea & Coffee Break
16:30 - 17:15	M. Škiljo	Building a cheap GPR prototype with undergraduate students - the experience of the University of Split.
17:15 - 18:00	All	Showcasing the presented GPR prototypes to Trainees.

Tuesday 15 May

Time	Trainer	Activity
09:00 - 11:00	C. Van Geem	GPR applied to roads and bridges: methodology - guidelines - examples. and case studies
11:00 - 11:30		Tea & Coffee Break
11:30 - 13:00	C. Van Geem	Combined use of GPR and deflection measurement devices, on roads.
13:00 - 14:00		Sandwich Lunch
14:00 - 15:30	M. Shamsudduha	Groundwater resource monitoring using complementary geophysical techniques. Examples of data analysis and interpretation.
15:30 - 16:30	F. La Vigna	Hydrogeological map of the City of Rome.
16:30 - 17:00		Tea & Coffee Break
17:00 - 18:00	C. Van Geem	Pavement management.

Wednesday 16 May

Time	Trainer	Activity
09:00 - 11:00	S. Piro	On the use of GPR in archaeology and for cultural heritage management: methodology - recommendations - case studies.
11:00 - 11:30		Tea & Coffee Break
11:30 - 12:00	A. Ristic	GPR system performance compliance: how to test the performance of GPR equipment.
12:00 - 13:00	M. Arvanitis	Introducing to Trainees the GSSI GPR equipment that will be used during the practical sessions. Presentation of further GSSI GPR equipment and software tools. Examples and case studies.
13:00 - 13:30	R. Persico	Recommendations for a safe GPR prospecting.
13:30 - 14:30		Pizza Lunch

The afternoon will be devoted to a practical session in the church of San Pietro in Vincoli.

Thursday 17 May

Practical session in the basilica of San Paolo fuori le Mura

Friday 18 May

Time	Trainer	Activity
09:00 - 11:00	A. Ristic	GPR applied to the detection and localization of utilities in urban areas: methodology - guidelines - examples and case studies.
11:00 - 11:30		Tea & Coffee Break
11:30 - 12:00	L. Pajewski	European test sites for GPR. Open database of radargrams. Quick overview on available free software tools for GPR.
12:00 - 13:00	F. Soldovieri	GPR data processing - Part I.
13:00 - 14:00		Pizza Lunch
14:00 - 15:00	F. Soldovieri	GPR data processing - Part II (advanced topics).
15:00 - 16:00	D. Comite	Early-time method for the estimation of the permittivity of soil from GPR data. GPR-based shape reconstruction of three-dimensional buried metallic objects. Exploiting information about the radiation pattern of GPR antennas in data processing.
16:00 - 16:30		Tea & Coffee Break
16:30 - 17:30	D. Poljak, A. Šušnjara	GPR activities in Croatia, with a main focus on research projects carried out at the University of Split. TWINS-II electromagnetic simulation tool developed by the University of Split: Theoretical background and practical use.
17:30 - 18:15	P. M. Barone	Understanding Forensic Anomalies: use (and misuse) of GPR at international crime scenes.
18:15 - 18:30	All	Final comments and closing