

Short course

Raman spectroscopy and imaging: Applications in the Earth sciences

Pre-conference short course (no. WSC1) in the framework of the
International Mineralogical Association (IMA) General Assembly
Wien, Austria, August 20–21, 2010

August 20	before 09:45	On-site registration; coffee
	09:45–10:00	Opening, general introduction, group assignment
	10:00–12:00	Seminar: Basics of Raman spectroscopy (<i>L.N.</i>) Experimental details (<i>B.B.</i>) Vibrations and vibrational bands (<i>E.L.</i>) Interpretation of data; common artefacts (<i>L.N.</i>)
	12:00–13:30	Lunch break
	13:30–14:45	Seminar: Raman applications in the Earth sciences (<i>L.N.</i>)
	14:45–15:00	Application note: <i>Jolien Van Pevenage</i> (Ghent University, Belgium): „Investigation of pigments and potsherds, dating from the Roman time, by means of Raman spectroscopy“
	15:00–15:15	Coffee break
	15:15–17:15	Laboratory work (<i>E.L.</i> & <i>B.B.</i>)
	17:15–18:15	Invited lecture: <i>Polona Ropret</i> (Institute for the Protection of Cultural Heritage of Slovenia, Ljubljana, Slovenia): “Raman spectroscopy in the scientific investigation of works of art”
	after 18:30	Short course dinner
August 21	09:00–11:00	Laboratory work (<i>E.L.</i> & <i>B.B.</i>)
	11:00–11:15	Coffee break
	11:15–12:15	Invited lecture: <i>Reinhard Kaindl</i> (University of Innsbruck, Austria): “Application of Raman spectroscopy to fluid and melt inclusions”
	12:15–13:45	Lunch break
	13:45–14:45	Seminar: Raman-based imaging techniques (<i>L.N.</i>)
	14:45–15:45	Invited lecture: <i>Tamás Váczi</i> (Bay Zoltán Foundation for Applied Research, Miskolc, Hungary): “Raman spectroscopy applied to the study of radiation damage in minerals”
15:45	Closure (and opportunity for analyses of participants’ own samples)	