

Regional Training Course on Dating of Cultural Heritage Artefacts using Nuclear Analytical Techniques

from	to	Monday 20 May	Tuesday 21 May	Wednesday 22 May	Thursday 23 May	Friday 24 May
9:00	9:30	Registration				
9:30	10:00	Welcome address (Tome Antičić, Director General; Ivana Kralik))	I Pucić, T Jurkin, B Katušin-Ražem: Irradiation method for the protection of cultural heritage artefacts (set of 3 lectures)	M. Martini #2: Dendrochronology: basis and applications	M. Martini #3: TL and OSL: applications, problems, examples	V. Mohaček Grošev: How can Raman spectroscopy help in dating works of art?
10:00	10:30	I. Krajcar Bronić: Indoductory notes				Preparation of presentations
10:30	11:00	break	break	break	break	break
11:00	11:30	Short introductions of each participant	M.Martini # 1: General basis of TL and OSL	14C dating, part 4 (BO): Presentation and calibration of radiocarbon results	14C dating, part 5 (BO, NH, IKB): Archaeological case studies	Group presentations and discussion
11:30	12:00					
12:00	12:30	14C dating part 1 (IKB): Absolute dating methods, the basis of 14C	S. Fazinic: Accelerator-based nuclear analytical techniques as a complement to dating CH objects			
12:30	13:00			lunch	lunch	lunch
13:00	13:30					
13:30	14:00	lunch	lunch			
14:00	14:30	V.Desnica; X-ray fluorescence analysis (XRF)	14C dating part 3 (NH): 14C dating by AMS (end at app 14:45)	Round-table discussion - all participants, M Martini, IKB, BO, NH, JB, SF, MJ, IBR, BM, BKR, IP, TJ (end at app 14:45)	14C, part 6 (NH, IKB, JB): Radiocarbon as natural tracer, break and walk to CCI	feedback and course evaluation
14:30	15:00					certificates and closing
15:00	15:30	break	group A: 14C lab (N. Horvatinčić, J. Barešić, A. Rajtarić, IKB)	group B: Radiation treatment (BKR, IP, TJ)	group B: 14C lab (N. Horvatinčić, J. Barešić, A. Rajtarić, IKB)	
15:30	16:00	14C dating part 2 (JB):				
16:00	16:30	Sample preparation for 14C dating - LSC	group A: TL lab (Ž Knežević + M Martini)	group B: accelerator (SF, MJ, IBR)	group A: Radiation treatment (BKR, IP, TJ)	
16:30	17:00				group A: Radiocarbon dating contributing to date bronze statues, L Čataj : Radiocarbon dating and the changes it brought in the field of archaeology; D. Mudronja: Science Lab	
17:00	17:30					
17:30						
19:00		hospitality event, IAEA at the Restaurant "Kod Pere"	Zagreb City Museum - exhibition In the service of archaeology (B Mašić, A Bugar)		Arheological Museum - open until 20 h optional activity	
		RBI staff replacing I Hajdas BO - Bogomil Obelić NH - Nada Horvatinčić JB - Jadranka Barešić IKB - Ines Krajcar Bronić	IBR - Iva Bogdanović Radović SF - Stjepko Fazinić BKR - Branka Katušin Ražem IP - Irina Pucić TJ - Tanja Jurkin		CCI staff: Mario Braun Iskra Karniš Vidović Lea Čataj Domagoj Mudronja	