


ARCHEOMETRIC INTERDISCIPLINARY RESEARCH LABORATORY

Contact details

Name	Archeometric Interdisciplinary Research Laboratory		
Acronym	ARHEO		
Site	http://im.utcluj.ro/prezentare/laboratoare/laboratorul-de-arheometrie/		
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Areas of expertise

Electrical measurements applied in Archaeology, material analysis, numismatic expertise.

Team and key skills

Assoc. Prof. Dr. Eng. Dr. Hist. Mihai Munteanu, Prof. Dr. Eng. Vasile Țopa, Prof. Dr. Phys. Emil Indrea, Prof. Dr. Eng. Phys. Ionel Chicinaș, Assist. Prof. Dr. Phys. Traian Petrișor Jr., Assist. Prof. Dr. Phys. Mircea Năsui, Assoc. Prof. Dr. Eng. Radu A. Munteanu, Prof. Dr. Eng. Radu Ciupa, Prof. Dr. Eng. Marius Roman, Prof. Dr. Eng. Călin Munteanu, Prof. Dr. Eng. Dan Rafiroiu, Prof. Dr. Eng. Daniel Moga, Prof. Dr. Eng. Dorin Petreuş, Assoc. Prof. Dr. Eng. Math. Dan Doru Micu, Assoc. Prof. Dr. Eng. Simona Vlad, Assoc. Prof. Dr. Eng. Titus Crișan, Assist. Prof. Dr. Eng. Dan Iudean, Assist. Prof. Dr. Eng. Bogdan Țebrean, Asist. Prof. Dr. Eng. Septimiu Crișan

Development strategy

The Archeometry Laboratory aims to polarize the fundamental research in the Technical University of Cluj-Napoca, in order to ensure performance and emulation in national and international context, in an area of great interest, the Archaeology.

There are already signed Cooperation Agreements with different Museums and Archaeological Institutes from Romania, that will provide the analyzing materials.

Significant results

A. Cooperation agreements:

1. Cooperation agreement with „Muzeul Țării Crișurilor Oradea”;
2. Cooperation agreement with „Institutul de Arheologie și Istoria Artei Cluj-Napoca”.

B. „In situ” research:

1. Three years diving campaign (2009-2012) on the research (investigation and carbon dating) performed on a ship

- wreck, at the bottom of the Black Sea;
2. Numismatic investigations on coins discovered at Porolissum.

C. Papers, Conferences:

1. Mihai Munteanu (Universitatea Tehnică din Cluj-Napoca), Coriolan Opreanu (Institutul de Arheologie si Istoria Artei Cluj-Napoca), Emil Indrea (Institutul Național de Cercetare – Dezvoltare pentru Tehnologii Izotopice si Moleculare Cluj-Napoca) - *Investigarea microstructurală a unor artefacte descoperite la Porolissum* (Simpozionul Internațional „CUCUTENI REDIVIVUS”, Universitatea „Ștefan cel Mare” Suceava, septembrie 2013);
2. Mihai Munteanu (Universitatea Tehnică din Cluj-Napoca), Coriolan Opreanu (Institutul de Arheologie si Istoria Artei Cluj-Napoca), Emil Indrea (Institutul Național de Cercetare – Dezvoltare pentru Tehnologii Izotopice si Moleculare Cluj-Napoca) - *Măsurători arheometrice asupra unui fragment de statuie de bronz descoperită la Porolissum (Workshop ASCULTÂND VOCEA PĂMÂNTULUI TEHNOLOGIA MODERNĂ ÎN SPRIJINUL ARHEOLOGIEI, Universitatea Babeș-Bolyai Cluj-Napoca, noiembrie 2013);*
3. Mihai Munteanu – Analiza artefactelor prelevate din situl naufragiului, în vederea datării epavei de la Eforie Sud – Conference held as an invited speaker at Universitatea „Ștefan cel Mare” Suceava, 20 iunie 2013;
4. Mihai Munteanu - Vorstellung des Labors für Archeometrie, invited speaker at „Humboldt Klub Siebenbürgen”, Jahrestreffen 2013.
5. Munteanu Mihai, Rafiroiu Dan, Radu Munteanu, Simona Vlad, Luige Vladareanu, Simona Munteanu - Deities recognition on antic greek coins using Matlab, in *Proceedings of MTS 2009 (6th Int. Conf. on Management of Technological Changes), Alexandropolis, Greece, September 2009, p.663-666;*

The offer addressed to the economic environment

Research & development in applied fields	The possibility of applying engineering in archaeological study can lead to exceptional results through which archaeology makes a fundamental qualitative leap. Thus, engineering will allow the transition from classical investigation, to the one based on a prior technical diagnosis of the interest area, achieving optimization in terms of time, financial and human resources.
Consulting	We provide the appropriate solutions, depending on the terrain conditions and on the type/structure of the analyzed artefact.