

An aerial photograph of an archaeological excavation site. The ground is covered with a grid of white lines, indicating the layout of the excavation. The terrain is uneven and appears to be a mix of soil and rock. The text is overlaid on the center of the image.

Archaeometry and Archaeology: methods, interpretations and implementation

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Archaeometry is “in” 😊

integral approach to the Archaeometry and to
propose steps of the archaeometrical research

| Problem Methods | | Location | Charact. of material | Dating | Authen. | Recon. environment | Provenience | Human activity |
|---|---------------------------------|----------|----------------------|--------|---------|--------------------|-------------|----------------|
| Trad. chemi. analysis | | ✘ | ✘ | ✘ | ✘ | | ✘ | |
| Natural Sciences: physics and chemistry | Phi. methods and chem. analy. | | ✘ | ✘ | ✘ | | ✘ | ✘ |
| | Activation analy. | | | | | | | |
| | Isot. analy.&mass. spectrometry | | ✘ | ✘ | ✘ | | ✘ | ✘ |
| | XRD | | ✘ | ✘ | | | | ✘ |
| | Radioactiv.: TL, FT, ESR | | | ✘ | ✘ | | | |
| | Geophysics | ✘ | | ✘ | ✘ | | | |
| | Optical&Elect. Micros. | | ✘ | ✘ | ✘ | | ✘ | ✘ |


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|--------------------------------------|---|----------|----------------------|--------|---------|--------------------|-------------|----------------|
| Natural Sciences: Geology | Mineralogy Petrography. | | ✘ | | ✘ | | ✘ | ✘ |
| | Sedimentology | | | ✘ | | ✘ | | |
| | Palaeontology Micropaleontology | | | ✘ | | ✘ | | |
| | Pedology Paleopedology | | | | | ✘ | | |
| Natural sciences: Biology & Medicine | Zoology Archaeo-zoology | | | | | ✘ | | |
| | Botanic -paleobotanic Archeo-botanic | | | ✘ | | ✘ | | ✘ |
| | Microbiology | | | | | | | ✘ |
| | Palaeontology - Anthropology Paleoanthropology | | | | | ✘ | | ✘ |
| | Paleopathology&related med-bio. discipline | | | | | | | ✘ |



The archaeological methods of analysis allow us to select so called **reference group**

Useful:
remains of the kiln
pottery waste,
misfired vessels and/or fragments
geological survey
ethnological mapping
experimental archaeology

Proposed steps in the Archaeometric analysis:

1. Set archaeological objectives
2. Select proper archeomaterial analysis
3. Sampling: statistically relevant number of the samples, pots shreds, clay, temper
4. Geological survey
5. Ethnological mapping (if possible)
6. Analysis
7. Interpretation 
 1. Statistical methods
 2. Reconstruction of the historical context
 3. COMPARISON with other geographical areas!
8. Implementation of the results & database

Connecting Adriatic with Mediterranean:
Tracing Ancient Ceramic Workshops and
Networks in the last centuries BC

- University Fribourg
- Institute of archaeology Zagreb

Thank you!
Hvala