



Cultural Heritage Identity Card


## Univerza v Ljubljani Fakulteta za gradbeništvo in geodezijo Slovenia



Project Coordinator  
Roko Žarnić






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## Basic Facts

- Founded 1919
- 23 faculties, 3 academies
- 47.000 students
- 4343 teaching & research staff
- 1577 technical & administrative staff
- Ljubljana: 300.000 inhabitants
- Slovenia: 2 million population
- GDP per capita app. 14.000 €





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## Faculty of Civil and Geodetic Engineering



- 1875 students (2008/09)
- 296 teaching & research & technical staff
- 21 units (Chairs),  
2 laboratories  
1 institute



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## Project Team

### Chair of Research in Materials and Structures

- Prof. Dr. Roko Žarnić (chair)
- Assist. Prof. Dr. Violeta Bokan Bosiljkov
- Assist. Prof. Dr. Violeta Bokan Bosiljkov
- Assist. Prof. Dr. Jana Šelih
- Dr. Marjana Šijanec Zavrl
- Eng. Franci Čepon
- Eng. David Antolinc, Ph.D. Student
- Eng. Petra Štukovnik, Ph.D. Student
- Eng. Meta Kržan, Ph.D. Student






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## Major international references

- FP4
  - ATEM - Advanced Testing of masonry
  - EUROQUAKE
- FP5
  - SAFEFLOOR
  - LIFETIME
- FP6
  - ENABLE (ECTP)
  - CHRAF
  - FUTURE BRIDGE
- FP7
  - EU CHIC
  - Climate for Culture
  - Perpetuate
  - REG CON
- EUREKA
  - PREVENT
  - COMREHAB
  - LIMEPLASTER
- COST
  - C5 - Urban Heritage-Building Maintenance
  - C16- Improving building envelope
  - C530
  - C25 Sustainability of Constructions
  - TU0905 Structural Glass

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## Links in benefit of CHIC

- ECTP FACH Network
- CHIC Advisory Network in development (10 letters of support)
- Ministry of Culture of R Slovenia
- NET HERITAGE
- ICOMOS Slovenia (vice chairmanship)







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## Major equipment

- Instron servo-hydraulic testing machine 1000 kN
- Roell-Amsler servohydraulic testing machine 100kN with thermal chamber
- Servo-hydraulic actuators: one 250kN, two 500 kN with  $\pm 250$  mm displacement, one 3000 kN
- Portable Videomicroscope HIROX up to 1700 magnification (50 portable)  
Surface digitalisation, 0,5 $\mu$ m step
- HBM Spider 6X8 data acquisition system with various transducers






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## Investigation of CH structures

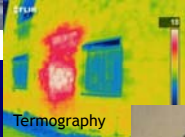
- NDT, MDT and DT techniques of investigation.
- Structural investigation of CH structures.
- Data-base systems for the evaluation of the state of structures.



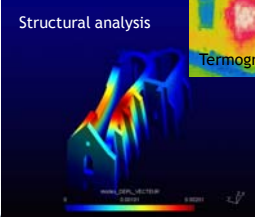
Stone masonry




After grouting





Thermography



Structural analysis



In-situ shear test

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Thank you for your attention.



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