

Name: PAOLA
Surname: ANTONACI
Email: paola.antonaci@polito.it
National insurance number: NTNPLA76D63D862Y
Gender: Female
Date of birth: 1976-04-23
Nazionalità: ITALIAN
Document number: AK0024800
Passport number:
Address
Province: TO
City: TORINO
Address: Corso Duca degli Abruzzi
Number: 24
CAP: 10129
Telephone: +390115644877
Fax: +390115644899
Mobile:
Organization type: Politecnico di Torino
Role: Researcher
Department name: (Politecnico di Torino) DISTR
Education: Architectural Engineering Degree. PhD in Structural Engineering at the Politecnico di Torino
Work experience in the last 5 years: Researcher at the First Faculty of Engineering of Politecnico di Torino since 2007.

Support teacher for the course "Testing of materials, models and structures" for students attending the second year of the Degree course in Architectural and Civil Engineering.

Support teacher for the course "Statics and Stability of Masonry and Monumental Buildings"

for students attending the second year of the Degree course in Architectural Engineering.

Technical, organizational and social skills: Development of laboratory techniques for fast simulation of degradation phenomena affecting traditional materials for Civil Engineering and innovative products currently available for structural repair and strengthening.

Development of experimental methodologies for damage assessment and on-site detection of materials strength and deformability characteristics.

Statistical data processing for global diagnosis of existing structures.

Loans managed for the last 5 years: - Participant in the PRIN 2003 Research Project 'Non-destructive methods for the identification and diagnosis of materials and structures', coordinated by prof. Antonino Morassi (Università di Udine) and funded by Ministero dell'Università e della Ricerca (2003-05).

- Participant in the Research Project 'REMUCK - Innovative methods for the eco-compatible

and sustainable recycling of muck from tunnel

- excavation, also considering the potential content of noxious minerals', coordinated by prof. Carlo Clerici (Politecnico di Torino) and funded by Regione Piemonte (2007-09).

- Participant in the PRIN 2007 Research Project 'Monitoring, inverse analysis, diagnosis and structural safety evaluation of existing concrete dams', coordinated by prof. Giorgio Novati (Politecnico di Milano) and funded by Ministero dell'Università e della Ricerca (2007- 09).

Publications for the last 5 years, licences or other products of research: Papers on National/International journals:

1. ANTONACI P. (2008). Il futuro delle infrastrutture, *Logistica*, n. 2, pp. 20.
2. ANTONACI P., BOCCA P.G., SELONE F. (2007). Elastic Modulus in Large Concrete Structures by a Sequential Hypothesis Testing Procedure applied to Impulse Method Data. *STRUCTURAL ENGINEERING AND MECHANICS*. Vol. 26, N. 5, pp. 499-516, ISSN: 1225-4568
3. ANTONACI P., BOCCA P.G., MASERA D., PUGNO N., SCALERANDI M., SELONE F. (2007). A Novel Ultrasonic Technique to Detect Damage Evolution in Quasi-Brittle Materials. *KEY ENGINEERING MATERIALS*. Vol. 247, pp. 633-638, ISSN: 1013-9826
4. ANTONACI P., BOCCA P., GRAZZINI A. (2006). Long mechanical interaction between strengthening materials and pre-existing structures. *JOURNAL OF MATERIALS IN CIVIL ENGINEERING*. vol. 18, n. 15, pp. 634-640 ISSN: 0899-1561.
5. ANTONACI P., BOCCA P., GRAZZINI A. (2006). In situ determination of toughness indices of fibre reinforced concrete. *MATERIALS AND STRUCTURES*. vol. 39, n. 3, pp. 283-290 ISSN: 1359-5997.
6. ANTONACI P., BOCCA P. (2005). Experimental study for the evaluation of creep in concrete through thermal measurements. *CEMENT AND CONCRETE RESEARCH*. vol. 35, 9, pp. 1776-1783 ISSN: 0008-8846.
7. ANTONACI P., BOCCA P. (2005). The pull-out method for the on-site estimation of the elastic modulus of concrete. *JOURNAL OF STRAIN ANALYSIS FOR ENGINEERING DESIGN*. vol. 40, 6, pp. 505-511 ISSN: 0309-3247.
8. ANTONACI P., BOCCA P. (2005). Valutazione in situ del modulo elastico del calcestruzzo con prova non distruttiva. *INDUSTRIA ITALIANA DEL CEMENTO*. vol. 806, pp. 138-145 ISSN: 0019-7637.
9. ANTONACI P., BOCCA P. (2004). On site evaluation of concrete deformability characteristics: two non-destructive methods compared. *SCIENTIFIC ISRAEL: TECHNOLOGICAL ADVANTAGES*. vol. 6, pp. 87-95 ISSN: 1565-1533.
10. ANTONACI P., BOCCA P., GRAZZINI A. (2004). Valutazione a fatica dei laterizi di nuova produzione. *L'INDUSTRIA DEI LATERIZI*. vol. 86, pp. 112-118 ISSN: 1123-8208.

Papers on National/International Congresses:

11. ANTONACI P., BOCCA P.G. (2008). Mechanical Behavior of Clay Bricks and Restoration Mortars Subject to Thermal Actions. In "Life Cycle Civil Engineering", First international Symposium on Life Cycle Civil Engineering, Varenna (Italy) 10-14 June 2008, pp. 101-106, ISBN: 978-0-415-46857-2
12. BOCCA P.G., ANTONACI P., DI VASTO V. (2008). Valutazione del comportamento meccanico a breve e a lungo termine di graniti caratterizzati da disuniformità cromatiche. Proceedings of the XXXVII AIAS National Conference, Roma (Italy) September, 10-13, 2008, pp. 99, 2008, ISBN: 9788887965513
13. ANTONACI P., BOCCA P.G., BRUNO C., GLIOZZI A., MASERA D., SCALERANDI M. (2008). Nonlinear phenomena analysis in the ultrasonic wave propagation to detect damage evolution in historical structures. Proceedings of the Int. RILEM Conference SACoMaTIS 2008: On Site Assessment of Concrete, Masonry and Timber Structures, Varenna (Italy) September, 1-2, 2008, pp. 703-708, Vol. 2, ISBN: 9782351580615
14. ANTONACI P., BOCCA P.G., MASERA D., PUGNO N., SCALERANDI M., SELONE F. (2007), Spectral Analysis and Damage Evolution in Concrete Structures with Ultrasonic Technique. Proceedings of the 6th International Conference on Fracture Mechanics of Concrete and Concrete Structures, Catania (Italy) June, 17-22, 2007.
15. ANTONACI P., BOCCA P.G., DI VASTO V., MASERA D. (2007). Caratterizzazione Sperimentale del Danneggiamento nei Materiali Granulari mediante Analisi Spettrale di

Segnali Ultrasonici. Proceedings of the XXXVI AIAS National Conference, Ischia - Napoli (Italy) September, 4-8, 2007

16. ANTONACI P., BOCCA P. (2005). On site estimation of the deformability characteristics of historical masonry structures and new restoration materials through impulse tests. ISBN/ISSN: 88-89758-01-5. Proceedings of the 8th International Conference on Non- Destructive Investigations and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage. Lecce (Italy), May, 15 - 19, 2005.

17. ANTONACI P., BOCCA P. (2005). On site evaluation of the elastic modulus of concrete. Proceedings of the 11th International Conference on Fracture. Turin (Italy), March, 20 - 25, 2005.

18. ANTONACI P., BOCCA P. (2005). Temperature variations in concrete subjected to cyclic compressive loading: consequences for diagnostic applications. Proceedings of the 6th International CTU Congress "Global Construction. Ultimate Concrete Opportunities". Dundee (Scotland), July, 5 - 7, 2005. ISBN/ISSN: 0-7277-3405-9.

19. ANTONACI P., BOCCA P. (2005). On site experimental evaluation of the elastic characteristics of large concrete structures. Proceedings of the First International Conference on Safety and Security Engineering. Roma (Italy), June, 13 - 15, 2005. ISBN/ISSN: 1-84564-019-5

20. ANTONACI P., BOCCA P. (2005). Stima sperimentale delle caratteristiche elastiche dei materiali dell'ingegneria civile. Proceedings of the XXXIV Convegno Nazionale AIAS. Milano (Italy), September, 14 - 17, 2005. ISBN/ISSN: 88-901916-1-9.

Chapters on books:

21. ANTONACI P., BOCCA P., Diagnostics and Monitoring for Infrastructure Quality and Durability, in: P. Bocca, editor: "What Future for the Infrastructure? Innovation & Sustainable Development", Patron (Bologna), 2008, pp. 179-207.

Type of the role in the search: Researcher