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Organization type: Politecnico di Torino
Role: Researcher
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Education: In 1985 graduated in Architecture with a thesis entitled " Elastic Plastic Calculation of Plane Frames", degree grade 110/110 cum laude.
In 1994 obtained the title of Research Doctor (Ph.D.) in Structural Engineering from the Politecnico di Torino, with a dissertation on: "Mathematical Modelling of the Viscoelastic Behaviour of Concrete".
Work experience in the last 5 years: Main fields of research.
Predictive models for damage and creep in quasi-brittle materials; monitoring concrete and masonry structures with non destructive methods (such as the acoustic emission technique), structural analysis of historic masonry buildings, mechanical behaviour of concrete and masonry reinforced elements with composite laminates, critical phenomena analysis from Structural Mechanics to Geophysics, numerical analysis of tall buildings.

Teaching activities.
Since 2003 has been in charge of the course in Theory of Structures for Building Engineering students at the 1st School of Engineering of the Politecnico di Torino.

Tutor in Graduate Thesis.
Tutor or co-tutor in Graduate Thesis in Architecture and Structural Engineering at Politecnico di Torino.
Co-tutor of one Graduate Thesis in Architecture at the Architecture Faculty of the Venice University.

Tutor in Doctoral Thesis.
Tutor, in collaboration with Prof. Carpinteri, of the following doctoral thesis in Structural Engineering at the Politecnico di Torino:
"Acoustic Emission as a Precursor of Critical Phenomena in Structural and Seismic Engineering", Gianni Niccolini, XIX Cicle, 2007;
"Acoustic Emission Source Characterization of Critical Phenomena in Damaged Structures", Amedeo Manuello Bertetto, XX Cicle, 2008.
Technical, organizational and social skills: Memberships.

Member of the following national and international research organisations:
Associazione Italiana di Meccanica Teorica e Applicata. (AIMETA);
Italian Group of Fracture (IGF);
International Association of Fracture Mechanics for Concrete and Concrete Structures (IAFraMCoS);

European Structural Integrity Society (ESIS);
International Institute of Acoustic and Vibration (IIAV);
Acoustic Emission and Related NDE Techniques for Crack Detection and Damage Evaluation in Concrete (RILEM Technical Committee 212-ACD).

Review of scientific papers.
Reviewer for the International Journals: Materials and Structures, ACI Structural and Materials Journals, Engineering Structures, Meccanica, Wear, Structural Control and Health Monitoring, Journal of Strain Analysis for Engineering Design.

Organisation of Conferences.
Member of the Local Committee for the Organisation of the 11th International Conference on Fracture (ICF11), held in Turin on 20-25 March, 2005; chaired the session on “Failure Analysis”.

Member of the Local Committee for the Organisation of the 6th International Conference on Fracture Mechanics of Concrete and Concrete Structures (FraMCoS-6), held in Catania on 17-22 June, 2007; chaired the session on “Time effects in the Damage and Fracture of Concrete”.

In collaboration with Prof. A. Carpinteri organised the FraMCoS-6 Post-Conference Workshop “Acoustic Emission and Critical Phenomena: from Structural Mechanics to Geophysics”, held in Catania on 22 June 2007. Co-Chairman of the same workshop.
In collaboration with Prof. A. Carpinteri co-organiser of SEM 2009 Annual Conference & Exposition, Track 2: Fracture/Damage Simulation, Prediction and Detection, to be held in Albuquerque, New Mexico USA, 1-4 June, 2009.

Loans managed for the last 5 years: Research programs.
Participated in six biennial Italian research programs of national interest (PRIN) between 1998 and 2003.
Membership, from year 2007 to 2008, in the Leonardo da Vinci Research Project "Innovative Learning and Training on Fracture" (ILTOF). Founder: European Union. Project Leader: Prof. Alberto Carpinteri.
Membership, from year 2002 to 2005, in the PROMOMAT project “Process development, innovative methods of implementing and design of composites high tech and coatings ceramics materials”. Founder: MiUR - Ministero dell'Università e della Ricerca (Italy). Project Leader: Prof. Alberto Carpinteri.
Publications for the last 5 years, licences or other products of research: Authored and edited books (in English language).
[1] A. CARPINTERI, G. LACIDOGNA (Eds). (2008). Acoustic Emission and Critical Phenomena: From Structural Mechanics to Geophysics (pp. X+272). ISBN: 978-0-415-45082-9.. LONDON: Taylor & Francis (BALKEMA) (UNITED KINGDOM).
[2] A. CARPINTERI, G. LACIDOGNA (Eds). ((2007). Earthquakes and Acoustic Emission. (pp. IX+199). ISBN: 978-0-415-44402-6. LONDON: Taylor & Francis (BALKEMA) (UNITED KINGDOM).

Authored books (in Italian language).

[1] A. CARPINTERI, G. LACIDOGNA, M. PAGGI (2008). Strutture Isostatiche – Esempi ed Esercizi. BOLOGNA: Pitagora Editrice (ITALY). In print.

Patents

System for the assessment of safety conditions in reinforced concrete and masonry structures. Italian Patent: To 2002 A000924. Carpinteri Alberto, Lacidogna Giuseppe.

Refereed articles in international journals.

[1] A. CARPINTERI, G. LACIDOGNA, S. PUZZI. From criticality to final collapse: evolution of the “b-value” from 1.5 to 1.0. Chaos, Solitons and Fractals. ISSN: 0960-0779. DOI: 10.1016/j.chaos.2008.04.010. In print.

[2] A. CARPINTERI, G. LACIDOGNA, S. PUZZI. Prediction of cracking evolution in full scale structures by the b-value analysis and Yule statistics. Physical Mesomechanics. ISSN: 1029-9599. In print.

[3] A. CARPINTERI, P. CORNETTI, G. LACIDOGNA, M. PAGGI. A unified approach for the analysis of failure modes in FRP-retrofitted concrete beams. Advances in Structural Engineering. ISSN: 1369-4332. In print.
[4] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. The b-value analysis for the stability investigation of the ancient Athena Temple in Syracuse. Strain. ISSN: 0039-2103. DOI: 10.1111/j.1475-1305.2008.00602.x. In print.

[5] A. CARPINTERI, G. LACIDOGNA, S. PUZZI. A global approach for three-dimensional analysis of tall buildings. The Structural Design of Tall and Special Buildings. ISSN: 1541-7794. DOI: 10.1002/tal.498. In print.

[6] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI. Fractal analysis of damage detected in concrete structural elements under loading. Chaos, Solitons and Fractals. ISSN: 0960-0779. In print.

[7] A. CARPINTERI, G. LACIDOGNA, S. INVERNIZZI, A. MANUELLO, L. BINDA. Stability of the vertical bearing structures of the Syracuse Cathedral: experimental and numerical evaluation, Materials and Structures. ISSN: 1359-5997. DOI: 10.1617/s11527-008-9429-z. In print.

[8] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI, S. PUZZI. Morphological fractal dimension versus power-law exponent in the scaling of damaged media. International Journal of Damage Mechanics. ISSN: 1056-7895. DOI: 10.1177/1056789508098700. In print.

[9] G. NICCOLINI, G. DURIN, A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2009). Crackling noise and universality in fracture systems. Journal of Statistical Mechanics: Theory and Experiment. ISSN: 1742-5468. DOI: 10.1088/1742-5468/2009/01/P01023.

[10] A. CARPINTERI, F. CARDONE, G. LACIDOGNA. (2009). Piezonuclear Neutrons

from Brittle Fracture: Early Results of Mechanical Compression Tests. Strain, 2009, ISSN: 0039-2103. DOI: 10.1111/j.1475-1305.2008.00615.x.
[11] A. CARPINTERI, S. INVERNIZZI, G. LACIDOGNA. (2009). Closure to 'Structural Monitoring and Integrity Assessment of Medieval Towers' by Alberto Carpinteri and Giuseppe Lacidogna. Journal of Structural Engineering, vol. 135, pp. 207-208. ISSN: 0970-0137. DOI: 10.1061/(ASCE)0733-9445(2006)132:11(1681).

[12] F. BOSIA, N. PUGNO, G. LACIDOGNA, A. CARPINTERI. (2008). Mesoscopic modeling of Acoustic Emission through an energetic approach. International Journal of Solids and Structures, vol. 45, pp. 5856-5866. ISSN: 0020-7683. DOI: 10.1016/j.ijsolstr.2008.06.019.

[13] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI, S. PUZZI. (2008). Critical defect size distributions in concrete structures detected by the acoustic emission technique. Meccanica, vol. 43, pp. 349-363. ISSN: 0025-6455. DOI: 10.1007/s11012-007-9101-7.

[14] A. ANZANI, L. BINDA, A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2008). Evaluation of the repair on multiple leaf stone masonry specimens evaluated by acoustic emission. Materials and Structures, Vol. 41, pp. 1169-1189. ISSN: 1359-5997. DOI: 10.1617/s11527-007-9316-z.

[15] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI. (2007). Acoustic emission monitoring of medieval towers considered as sensitive earthquake receptors. Natural Hazards and Earth System Sciences, vol. 7, pp. 1-11. ISSN: 1561-8633.

[16] A. CARPINTERI, G. LACIDOGNA. (2007). Damage evaluation of three masonry towers by acoustic emission. Engineering Structures, vol. 29, pp. 1569-1579. ISSN: 0141-0296. DOI: 10.1016/j.engstruct.2006.08.008.
[17] A. CARPINTERI, S. INVERNIZZI, G. LACIDOGNA. (2007). Structural assessment of a XVIIth century masonry vault with AE and numerical techniques. International Journal of Architectural Heritage, vol. 1, pp. 214-226. ISSN: 1558-3058, DOI: 10.1080/15583050701287649.

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[19] A. CARPINTERI, G. LACIDOGNA, M. PAGGI. (2007). Acoustic emission monitoring and numerical modeling of FRP delamination in RC beams with non-rectangular crosssection.
Materials and Structures, vol. 40, pp. 553-566. ISSN: 1359-5997. DOI: 10.1617/s11527-006-9162-4.

[20] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2007). Damage Mechanisms Interpreted by Acoustic Emission Signal Analysis. Key Engineering Materials, vol. 347, pp. 577-582. ISSN: 1013-9826.

[21] F. BOSIA, N. PUGNO, G. LACIDOGNA, A. CARPINTERI. (2007). Modelling damage progression by a statistical energy-balance algorithm. Key Engineering Materials, vol. 347, pp. 435-440. ISSN: 1013-9826.

[22] A. CARPINTERI, G. LACIDOGNA. (2006). Damage monitoring of an historical masonry building by the acoustic emission technique. Materials and Structures (RILEM), vol. 39, pp. 161-167. ISSN: 1359-5997.

[23] A.CARPINTERI, G. LACIDOGNA. (2006). Structural monitoring and integrity assessment of medieval towers. Journal of Structural Engineering (ASCE), vol. 132, pp. 1681-1690. ISSN: 0970-0137.

[24] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI. (2006). Critical behaviour in concrete structures and damage localization by acoustic emission. Key Engineering Materials, vol. 312, pp. 305-310. ISSN: 1013-9826.
[25] A. CARPINTERI, G. LACIDOGNA, N. PUGNO. (2006). Richter's laws at the laboratory scale interpreted by acoustic emission. Magazine of Concrete Research, vol. 58, pp. 619-625. ISSN: 0024-9831.

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[27] A. CARPINTERI, G. LACIDOGNA, N. PUGNO. (2005). Time-scale effects during damage evolution: A fractal approach based on acoustic emission. Strength, Fracture and Complexity, vol. 3, pp. 127-135. ISSN: 1567-2069.

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Chapters in edited books

[1] A. CARPINTERI, G. LACIDOGNA. (2008). INTRODUCTION. In: Acoustic Emission and Critical Phenomena: from Structural Mechanics to Geophysics, A. CARPINTERI; G. LACIDOGNA; EDS., Taylor & Francis (BALKEMA) (GBR), pp. 1-10, 2008, ISBN: 978-0-415-45082-9.

[2] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI. (2008). Multidimensional Approaches to the Study of Italian Seismicity. In: Acoustic Emission and Critical Phenomena: from Structural Mechanics to Geophysics, A. CARPINTERI; G. LACIDOGNA; EDS., Taylor & Francis (BALKEMA) (GBR), In print.

[3] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2008). Localization Accuracy Microcracks in Damaged Concrete Structures. In: Acoustic Emission and Critical Phenomena: from Structural Mechanics to Geophysics, A. CARPINTERI; G. LACIDOGNA. EDS., Taylor & Francis (BALKEMA) (GBR). In print.

[4] A. CARPINTERI, G. LACIDOGNA. (2007). Structural Monitoring and Life Assessment of Medieval Towers. In: Earthquakes and Acoustic Emission, A. CARPINTERI; G. LACIDOGNA; EDS., Taylor & Francis (BALKEMA) (GBR), pp. 191-199. ISBN: 978-0-415-44402-6.

Refereed papers in international conferences

[1] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO, L. BINDA. (2008). The ancient Athena Temple in Syracuse (Sicily): an investigation on structural stability. RILEM Conference: On Site Assessment of Concrete, Masonry and Timber Structures (SACoMaTiS 2008). Varenna - Lake Como, Italy. 1 - 2 September 2008 (vol. 2, pp. 727-736). Eds. L. Binda et al., RILEM Publications S.A.R.L., Bagneux (France). ISBN: 978-2-35158-061-5.

[2] A. CARPINTERI, P. BOCCA, A. GRAZZINI, G. LACIDOGNA, A. MANUELLO, D. MASERA. (2008). Cyclic damage analysis by acoustic emission in reinforced masonry walls. RILEM Conference: On Site Assessment of Concrete, Masonry and Timber Structures (SACoMaTiS 2008). Varenna - Lake Como, Italy. 1 - 2 September 2008 (vol. 1, pp. 443-452). Eds. L. Binda et al., RILEM Publications S.A.R.L., Bagneux (France). ISBN: 978-2-35158-061-5.

[3] P. BOCCA, A. CARPINTERI, A. GRAZZINI, G. LACIDOGNA, A. MANUELLO, D MASERA. (2008). Reinforced masonry with FRP and structural mortar durability evaluation by AE technique. 4th International Conference on FRP in Civil Engineering (CICE 2008), Zurich, Switzerland 22-24 July 2008, CD-ROM. ISBN: 978-3-905594-50-8.

[4] A. ANZANI, L. BINDA, A. CARPINTERI, S. INVERNIZZI, G. LACIDOGNA. (2008). Monitoring structural integrity of historic towers: a mixed approach for their damage evaluation. 12th International Conference Structural Faults + Repair-2008. Edinburgh, Scotland, UK. 10-12 June 2008, CD-ROM. Edinburgh: Engineering Technics Press (United Kingdom). ISBN: 0-947644-62-7.

[5] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO, L. BINDA. (2008). Monitoring the structures of the ancient temple of Athena incorporated into the Cathedral Syracuse, 14th International Brick & Block Masonry Conference (14-IBMAC), Sydney, Australia, 17-20 February 2008, CD-ROM. ISBN: 9781920701-92-5.

[6] A. CARPINTERI, S. INVERNIZZI, G. LACIDOGNA, A. MANUELLO, L. BINDA. (2008). Numerical simulation and monitoring of the Cathedral of Syracuse in Sicily. 6th International Conference on Structural Analysis of Historical Construction (SAHC08), Bath 2-4 July 2008 (vol. 1, pp. 375-382). Eds. D. D'Ayala et al., Taylor & Francis (Balkema), London (United Kingdom). ISBN: 978-0-415-46872-5.

[7] A. CARPINTERI, S. INVERNIZZI, G. LACIDOGNA. (2008). Cracking simulation of brick masonry elements subjected to the double flat-jack test. 6th International Conference on Structural Analysis of Historical Construction (SAHC08), Bath 2-4 July 2008 (vol. 1, pp. 367-374). Eds. D. D'Ayala et al., Taylor & Francis (Balkema), London (United Kingdom). ISBN: 978-0-415-46872-5.

[8] A. ANZANI, L. BINDA, A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2007). Repair of damaged multiple leaf masonry: assessment by the Acoustic Emission technique. In: Fracture Mechanics of Concrete Structures. Proceedings of the 6th International FraMCoS-6 Conference, Catania, Italy, 2007 (vol. 3, pp. 1613-1621). Eds. A. Carpinteri et al., Taylor & Francis, London. ISBN 978-0-415-44617-4.

[9] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2007). An experimental study on retrofitted fiber-reinforced concrete beams using acoustic emission. In: Fracture Mechanics of Concrete Structures. Proceedings of the 6th International FraMCoS-6 Conference, Catania, Italy, 2007 (vol. 2, pp. 1061-1068). Eds. A. Carpinteri et al., Taylor & Francis, London. ISBN 978-0-415-44616-7.

[10] A. CARPINTERI, G. LACIDOGNA, A. MANUELLO. (2007). Damage Mechanisms Interpreted by Acoustic Emission Signal Analysis. In: Key Engineering Materials. 7th International Conference on Damage Assessment of Structures, Torino, Italy, June 2007. ISBN/ISSN: 1013-9826.

[11] A. CARPINTERI, G. LACIDOGNA, M. PAGGI. (2007). On the competition between delamination and shear failure in retrofitted concrete beams and related scale effects. In: Fracture Mechanics of Concrete Structures. Proceedings of the 6th International FraMCoS-6 Conference, Catania, Italy, 2007 (vol.2, pp. 1069-1076). Eds. A. Carpinteri et al., Taylor & Francis, London. ISBN 978-0-415-44616-7.

[12] A. CARPINTERI, S. INVERNIZZI, G. LACIDOGNA. (2007). Numerical simulation of brick-masonry subjected to the double flat-jack test. In: Fracture Mechanics of Concrete Structures. Proceedings of the 6th International FraMCoS-6 Conference, Catania, Italy, 2007 (vol.3, pp. 1623-1630). Eds. A. Carpinteri et al., Taylor & Francis, London. ISBN 978-0-415-44616-4.

[13] F. BOSIA, N. PUGNO, G. LACIDOGNA, A. CARPINTERI. (2007). Modelling damage progression by a statistical energy-balance algorithm. In: Key Engineering Materials. 7th International Conference on Damage Assessment of Structures, Torino, Italy, June 2007. ISBN/ISSN: 1013-9826.

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[15] A. CARPINTERI, G. LACIDOGNA, G. NICCOLINI. (2006). Medieval towers as sensitive earthquake receptors. In: Structural Analysis of Historical Constructions. Proceedings of the 3rd International Conference on Structural Analysis of Historical Constructions. 2006 (vol. 1, pp. 593-600). NEW DELHI: Eds. P.B. Lourenço et al.

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Computational Modelling of Concrete Structures. Proceedings of the Euro-C 2006 Conference, Mayrhofen, Tyrol, Austria. 2006 (pp. 699-708). Eds. G. Meschke et al., Taylor & Francis, London.

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assessment of concrete and masonry structures by an acoustic emission technique. In: Fracture Mechanics of Concrete and Concrete Structures. Proceedings of the 5th International FraMCoS Conference, Vail, Colorado, USA, 2004. (vol. 1, pp. 31-40). Eds. V.C. Li et al.

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[30] M. A. CHIORINO, G. LACIDOGNA. (2004). Creep effects in cantilever built bridges after final connections. In: Proceedings of FIB Symposium on Segmental Construction in Concrete. FIB Symposium on Segmental Construction in Concrete, New Delhi, India. November, 2004.
Type of the role in the search: Researcher