

Name: Bibiana María Luccioni

Date of Birth: February 27, 1961.

Email: bluccioni@herrera.unt.edu.ar , bluccioni@yahoo.com.ar

Education

- National University of Tucumán, Argentina, Civil Engineering, 9.43/10, 1985
- Structures Institute, National University of Tucuman, Argentina, Master in Structural Engineering, 10/10, 1988
- Structures Institute, National University of Tucuman, Argentina, Doctor in Engineering (PhD), 10/10, 1993

Present posts held

National University of Tucumán, Engineering and Exact Sciences Faculty, Tucumán, Argentina. National Council of Scientific and Technical Research (CONICET), Argentina.

- University Professor, 2007-present. At present, in charge of “Solids Mechanics” (undergraduate course) and “Solids Mechanics” and “Constitutive Modelling” (postgraduate courses)
- Principal Researcher of CONICET, 2017-present
- Member of the National Academy of Engineering (Argentina), 2005-present
- Director. Structural Engineering Master Program and Engineering PhD programs. National University of Tucumán, Tucumán, Argentina, 2006-present

Present Research Projects (Director)

- Use of high strength fiber reinforced concrete. PICT 2020-1810: 2021-2025
- Protection of structures under extreme loads. CIUNT CX/727 2023-2027
- Models for the simulation of composite materials, PIP CONICET 2020 (11220200101621CO) 2021-2025

Membership

- Member Editorial Board of *International Journal of Protective Structures* ISSN 2041-4196, *South American Structural Engineering Journal* ISSN 1806-3985 (Revista Sul-Americana de Engenharia Estrutural), *Int. Journal of Structures Engineering* ISSN 1390-0315 (Rev. Int. de Ingeniería de Estructuras)
- Member of the *International Association of Protective Structures* (IAPS), *South American Association of Structural Engineers* (ASAAE) and *Argentine Association of Computational Mechanics* (AMCA).

Published works

- One (1) Book
- Twelve (12) chapters in books
- Editor Proceedings of the *MECOM 1996* and *MECOM 2018*
- Sixty five (67) journal papers
- More than a hundred and forty (120) conferences full papers

Patent

- Generalized friction panel and method for mounting it on a frame, D. Ambrosini, P. Barlek, B. Luccioni, Granted DI-2022-8-APN-ANP#INPI, National Univ. of Tucumán, National Univ. of Cuyo, CONICET

Thesis Principal Advisor/Co-advisor

- Master Thesis: Seven (7)/two (2), Master Thesis in progress: One (1).
- Ph.D. Thesis: Eight (8)/two(2), Master Thesis in progress: One (1).

Postgraduate evaluation board

- Master Thesis: nine (9). National Universities of Tucumán, Cuyo Mendoza (Argentina) and University of Cape Town (South Africa).
- Ph.D. Thesis: Ten (13). National Universities of Tucumán, Salta, Córdoba, Cuyo, Santa Fe, La Plata, Bahía Blanca(Argentina); Brasilia (Brasil); Barcelona (España).

Other activities

- Invited Professor: University of Cape Town (South Africa), Federal Univ. of Rio Grande do Sul (Brazil), Autonomic Univ. “Gabriel René Moreno” (Bolivia), National Universities of Cuyo (Mendoza), Córdoba and Salta (Argentina) and Universidad Politécnica de Cataluña, Barcelona, España.
- Keynote Lecturer in the *MECOM 2002*, Paraná, Argentina, November 2002.

- Keynote Lecturer in the "XIII Congress on Numerical Methods and its Applications, ENIEF 2003", Bahía Blanca, Argentina, November 2003. Conference: "Building Collapse under Explosive Loads".
- Keynote Lecturer in the XXXI South American Congress on Structural Engineering", Mendoza, May 2004. Conference: Numerical Simulation of AMIA explosion.
- Keynote Lectures at National Academy of Engineering. Extreme Actions and New Structural Materials, Buenos Aires, Argentina, 2009.
- Referee of papers of *Computers and Structures*, *Engineering Structures*, *International Journal of Impact Engineering*, *Construction & Building Materials*, *International Journal of Protective Structures*.

Main consulting activities

- Consultancy to SCANIA Company: "Measurement of floor accelerations and frequencies in three directions in a building of SCANIA Company, Tucumán", June 1998.
- Participation as experts (Profs. Danesi, Luccioni and Ambrosini) of the ORAL FEDERAL TRIBUNAL N° 3 (Buenos Aires), in the trial of the Mutual Argentine-Israeli Association (AMIA) terrorist attack. Report 1 "Tridimensional Computational Simulation. Amount and Location of Explosives". Report 2 "Tridimensional Computational Simulation. Structural Collapse of the AMIA Building". October 2001 to September 2002.
- Consultancy to PAN AMERICAN ENERGY Company (Subsidiary of British Petroleum, BP): "Design of a protection to occupied building of the Piquirenda plant against accidental explosions. Determination of blast loadings and structural design". June-July 2008.
- Consultancy to UNITED NATIONS (UN): Special Tribunal for Lebanon. "Forensic studies on the effects of above-ground explosion caused by a very large improvised explosive device (IED) in the Republic of Lebanon". May/October 2010. Participation of the International College of Experts (ICE). France, August 2011, April 2012, November 2013. Testimony during the trial, The Hague, The Netherlands, Feb 2015.
- Protection study for existing buildings. Consultancy to PROFERTIL Evaluation and design of protections under accidental explosions, 2022-2023
- Radioactive substances transport package – Explicit dynamics simulations. Consultancy to IMPSA Numerical simulations for the design and licensing of a new package. From May 2022.

Achievements

- Gold medal for best average in the graduate career at the Exact Science and Technology Faculty, National University of Tucuman 1985.
- Award "Ing. Luis A. Huergo", National Academy of Engineering, Argentina, 1994.
- Award "Outstanding women at National level" granted by the National Honourable Chamber of Deputies, Buenos Aires, Argentina, 1995.
- Award "Konex, Most important personalities of the decade: 2003- 2012 of the Argentine Science and Technology", Argentina, 2013.
- AMCA award for teaching, professional, and scientific career in Argentina, Argentine Association of Computational Mechanics, 2020.

Current research interests

Constitutive Models for composites, metals and concrete under severe dynamic actions and temperature. Impact and blast loading, structural damage and structures retrofitting.