



Lusa Tuleasca

Senior Lecturer

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Department of Civil Engineering

EDUCATION

- 2000 **PhD** - Gh. Asachi Technical University, Faculty of Civil Engineering and Architecture, Iasi, Romania, 2000
- 1984 - 1989 **BE Civil (Hons)** - Gh. Asachi Technical University, Faculty of Civil Engineering, Iasi, Romania, 1989
- 2009 **PM Certificate** (Distinction) - Project Management Institute, Wellington, New Zealand, 2009

POSITIONS HELD

- 12/2002 - present: **Senior Lecturer, Lecturer**, UNITEC Institute of Technology, Faculty of Technology and Built Environment, Department of Civil Engineering, Auckland, New Zealand
- 02/2002 - 10/2002: **Researcher, Tutor**, The University of Auckland, Faculty of Engineering, Department of Civil and Environmental Engineering, New Zealand
- 10/1990 - 02/2001: **Senior Lecturer, Assistant Professor, Tutor**, Gh. Asachi Technical University, Faculty of Construction and Architecture, Department of Concrete, Materials, Technologies and Management, Iasi, Romania

INDUSTRY EXPERIENCE

- 2004 – present: **Structural Engineer** - Consultancy: Structural Design, Structural Assessment and Retrofit of Building Affected by Earthquake, New Zealand
- 1990 - 2001: **Structural Engineer** – Consultancy: Structural Engineering, Reinforced and Prestressed Concrete, Romania
- 1989 - 1990: **Civil Engineer**, Building Site Supervisor/Manager, Industrial Constructions Company TCIND Iasi, Romania

PROFESSIONAL MEMBERSHIPS

MIPENZ – Member Institution of Professional Engineers New Zealand, Charter Professional Engineer (NZ), International Professional Engineer

SESOC - Structural Engineering Society New Zealand, member

NZCS - New Zealand Concrete Society Incorporation, member

NZSEE - New Zealand Society for Earthquake Engineering Inc., member

ACI - American Concrete Institute, member

fib - The International Federation for Structural Concrete, member

During my time at Unitec I have worked as a Senior Lecturer/Lecturer and a Researcher. I have lectured before 2011 in: Materials and Structures, Intermediate Structures, Structural Theory, Structural Design and Design of Structures within the Bachelor of Engineering Technology (Civil) and Diploma of Engineering (Civil) programmes. Since 2011, when Bachelor of Engineering Technology (Civil) programme changed, I am lecturing in: Basic Structures, Structural Principles, Structural Steel and Timber, Structural Concrete and Design of Structures.



With my students during Design of Structures lecture

I have supervised 43 students including five in 2013, in their final year of Bachelor of Engineering Technology programme, for Design/Research Projects. For the majority of the students I arranged for industry support.



After graduation with one of my student

I have attended national and international conferences all over around the world in New Zealand, where I live at the present, United States (Washington), Italy (Naples), Singapore, Czech Republic (Marianske Lazne) and Israel (Tel Aviv).



2013 Fib Symposium, Tel Aviv with Professor Frank Dehn

RESEARCH RECORD

Papers in Journals and Refereed Conference Proceedings (most recent)

2011 **Lusa TULEASCA**, Anca C. YALLOP, *“Managing Disasters: Preparedness, Response and Recovery”* - 7th APRU Research Symposium on Multihazards around the Pacific Rim 24 - 26 November, Auckland, New Zealand

2011 **Lusa TULEASCA**, Paul KITE, *“Behaviour of beams subjected to bending and shear when fibres are added to concrete”* - Sustainable Development in Civil Engineering – International Conference dedicated to the 70th Anniversary of Higher Education in Civil Engineering at Iași, Romania, November 11th

2011 **Lusa TULEASCA**, Len G. McSAVENY, *“The influence of Steel and Polypropylene Fibre Reinforcement on Restrained Shrinkage Cracking”*, 9th Symposium on High Performance Concrete, Rotorua 9 - 11 August, New Zealand

2011 **Lusa TULEASCA**, Len G. McSAVENY, *“The use of shrinkage rings to optimize concrete performance”*, 6th Central European Congress on Concrete Engineering, Session T6: Worthwhile impulse from outside the Central European region, Paper Number 027, 30 September-1 October, Marianske Lazne, Czech Republic

2007 **Lusa TULEASCA**, Aurel CUCIUREANU, *“Assessment and Rehabilitation of a Concrete Building Affected by Earthquake”* - 8th Pacific Conference on Earthquake Engineering, Paper Number 050, Session 8B, 5-7 December, Singapore

Research Contracts (most representative)

2010, 2009 **Lusa TULEASCA**, *“Microscopic analysis of self-compacting concrete samples with different forms of micro-silica”*- phase 1 and 2, Faculty of Technology and Built Environment, Department of Civil Engineering, Unitec, Beneficiary: Golden Bay Cement Ltd. New Zealand

2004 **Lusa TULEASCA** *“Using steel fibre in Auckland City Arena slab”*, Beneficiary: MAINZEAL Construction, Auckland, New Zealand

2004 **Lusa TULEASCA** *“Report on cracking in reinforced concrete slabs at residential homes, Botany, Auckland”*, Beneficiary: Concrete Floors Ltd. Auckland, New Zealand

2004/2003 **Lusa TULEASCA**, *“Influence of steel and polypropylene fibre reinforcement on restrained shrinkage and cracking”* – phase 1 and 2 School of Engineering, Faculty of Architecture and Design, UNITEC – Institute of Technology, Auckland, Beneficiary: Novocon Ltd. New Zealand

2002 **Lusa TULEASCA**, P. LAURSEN, J. INGHAM, *“Seismic design of a single storey building using unbonded precast post-tensioned concrete walls”*, Department of Civil and Environmental Engineering, The University of Auckland

Presentations

2010, 2008, 2006 **Lusa TULEASCA** *“Fibres Reinforced Concrete”*, Department of Civil Engineering, The University of Auckland – Guest Lecturer -“Advanced Topics Related to Structural Concrete” course

2006. **Lusa TULEASCA** *“Influence of Steel Fibre Addition of the Spacing of Beams Transversal Reinforcement”*, School of the Built Environment Seminar Series