

Almila Uzel, PhD, PEng

Education

Ph.D.	2003	University of Toronto, Toronto, ON, Canada Dissertation: <i>Shear Design of Large Footings</i>
M.Sc.	1995	İstanbul Technical University, Istanbul, Turkey <i>Honours degree</i> Dissertation: <i>A Method of Load Increments for Elastic-plastic Analysis of Grid Systems and Determination of Collapse Loads of Reinforced Concrete Slabs</i>
B.Sc.	1993	İstanbul Technical University, Istanbul, Turkey
	1989	Kadıköy Anatolian High School, Istanbul, Turkey

Employment

SEP 2012 to present	Yeditepe University-Civil Engineering Department <i>Assistant Professor</i>
JAN 2011 to MAY 2012	Read Jones Christoffersen, Toronto, ON, CANADA <i>Project Engineer</i>
JUNE 2006 to DEC 2010	Halcrow Yolles, Toronto, ON, CANADA <i>Structural Engineer</i>
NOV 2005 to APR 2006	University of Toronto, Toronto, ON, CANADA <i>Adjunct Professor</i>
SEP 2003 to OCT 2004	University of Toronto, Toronto, ON, CANADA <i>Adjunct Assistant Professor</i>
JAN 1999 to SEP 2003	University of Toronto, Toronto, ON, CANADA <i>Research Assistant of Professor Michael P. Collins</i>
MAY 1997 to FEB 1998	Building Research Institute, Tsukuba, Ibaraki, JAPAN <i>Research Assistant of Dr. Toshibumi Fukuta</i>
JAN 1994 to DEC 1998	İstanbul Technical University, Istanbul, TURKEY <i>Research Assistant</i>

Administrative Duties

APRIL 2013 to present	<i>Vice Chair</i> - Civil Engineering Department, Yeditepe University
2002 to 2003	<i>Graduate Student Member</i> - Academic Appeals Committee- Civil Engineering Department- University of Toronto

Awards and Scholarships

- JICA - Participant Training, 1997-1998
- Connaught Scholarship, 1999-2000, 2000-2001
- Ontario Graduate Scholarship- Paul and Suzana Price Scholarship in Science and Technology, 2001-2002, 2002-2003

Professional Designations

Licensed P.Eng in the Province of Ontario, Canada

Highlights of Academic Work

Based on the experimental and analytical research that were carried out during my doctoral studies, changes to design specifications were proposed and have been adopted in the American Association of State Highway Transportation Officials LRFD Bridge Design Specifications, 2002 revision. Also, changes to the shear design provisions of CSA A23.3-04, Canadian design code for concrete structures, have been balloted and are now included in the CSA A23.3-04.

Teaching Experience

- JAN 94-98 Structural Analysis I-II-III, Special Topics in Structural Analysis _ Teaching Assistant
Civil Engineering Department, Faculty of Civil Engineering, Istanbul Technical University
- SEP 99-02 CIV102-Structures, Materials and Design _ Teaching Assistant
Infrastructure Program, Engineering Science Department, Faculty of Applied Science and Engineering, University of Toronto
- SEP 03-04 CIV102-Structures, Materials and Design_ Tutorial Coordinator
Infrastructure Program, Engineering Science Department, Faculty of Applied Science and Engineering, University of Toronto
- NOV 2005 CIV314-Structural Design _ Co-instructor
Civil Engineering Department, Faculty of Applied Science and Engineering, University of Toronto
- JAN 2006 CIV357-Building Design _ Instructor
Infrastructure Program, Engineering Science Department, Faculty of Applied Science and Engineering, University of Toronto
- JAN 2006 CIV417-Prestressed Concrete _ Instructor
Civil Engineering Department, Faculty of Applied Science and Engineering, University of Toronto
- SEP 2012-present CE382-Reinforced Concrete _ Instructor
CE490-Design in Civil Engineering _ Instructor
CE331-Structural Analysis I_ Instructor

CE332-Structural Analysis II_ Instructor
CE479-Prestressed Concrete _ Instructor
**Civil Engineering Department, Faculty of Engineering and Architecture,
Yeditepe University**

Professional Experience:

- Post-tensioned Slab Design of Mandarin Tower, MGM City Centre Project, Las Vegas, Nevada, US
- Post-tensioned Transfer Girder Design of Veer Towers, MGM City Centre Project, Las Vegas, Nevada, US
- Project Engineer for coordination and design of post-tensioned tower slabs, ADNOC Tower, Abu Dhabi, UAE
- Post-tensioned Transfer Slab Design of Ritz Hotel, Toronto, Ontario, Canada
- Project Engineer of College Park Project (responsible for underground and podium levels including large posttensioned transfer slab on 5th level, Aura High-rise Residential Building, Toronto, ON, Canada
- Project Engineer of Ocean Club High-rise Residential Building Project, Toronto, ON, Canada
- Project Engineer of Block 17-Canadian Tire Lands-Concord Adex - Mid-rise Residential Building Project, Toronto, ON, Canada

Professional Activities and Memberships

fib- International Federation for Structural Concrete
PEO- Professional Engineers of Ontario, Canada

Publications:

- **Papers (SCI)**

Design of Large Footings for One-way Shear, **Almila Uzel**, Bogdan Podgorniak Stanik, Evan C. Bentz, Michael P. Collins, ACI Structural Journal, V. 108, No. 2, March-April 2011.

- **Conference and Symposium Papers (full paper)**

Shear Behaviour of Reinforced Concrete Members under Uniform Loads, **Almila Uzel**, **Evan C. Bentz** and **Michael P.Collins**, 37th IABSE Symposium “Engineering for Progress, Nature and People”, September 3-5 2014, Madrid, SPAIN. (printed: pp.38-39 ISBN 978-3-85748-134-5, cd: ISBN 978-3-85748-135-2)

One Way Shear Design of Large Footings, **Almila Uzel**, **Evan C. Bentz** and **Michael P.Collins**, fib Symposium “Engineering a Concrete Future: Technology, Modeling and Construction”, 22-24 April 2013, Tel Aviv, ISRAEL. (printed: pp.293-296 ISBN 978-965-92039-0-1)

Application of Substructure Pseudo Dynamic Testing Method to Steel Building Frame, Toshibumi Fukuta and **Almila Uzel**, III Japan-Turkey Workshop on Earthquake Engineering, February 21-25, 2000, Istanbul, TURKEY.

Seismic Response of Steel Building Frame with Weak Beam-to-Strong Column by Substructure Pseudo Dynamic Testing Method, Toshibumi Fukuta, Hiroto Kato, Fumitoshi Kumazawa and **Almila Uzel**, 12th World Conference on Earthquake Engineering, February 2000, NEW ZEALAND.

Free Vibrational Characteristics of Several Buildings Strengthened after the 1995 Dinar Earthquake, **Almila Eroz**, U. Devrim Ersin, Faruk Karadogan, Kutlu Darilmaz, Ercan Yuksel, Hakan Saruhan, Second Japan-Turkey Workshop on Repair and Strengthening of Existing Structures, 23-25 February, 1998 Istanbul, TURKEY.

Free Vibrational Characteristics of Several Buildings Damaged During Earthquakes, Faruk KARADOGAN, U. Devrim ERSIN, Kutlu DARILMAZ, **Almila EROZ**, Ercan YUKSEL, Hakan SARUHAN ,Professor Rifat Yarar Symposium, 10 December 1997, Istanbul, TURKEY.

Story Addition on Existing Buildings and a Proposal, F. Karadogan, A. Ilki, E. Yuksel, **A. Eroz**, TUBITAK I st Earthquake Symposium, February 1996, Ankara. (Turkish)

Structural Behavior of Prestressed Hollow Core Slab Elements Subjected to Repeated Loading - I, F. Karadogan, E. Yuksel, E. Orakdogen, A. Ilki, **A. Eroz**, Prof. Turgan Sabis Symposium, November 1995, Istanbul. (Turkish)

- **Conference Presentations**

The Influence of Clamping Stresses on the Shear Response of Concrete Beams, **Almila Uzel**, Evan C. Bentz, Michael P. Collins, ACI 2001 Spring Convention, March 25-30, 2001, Philadelphia, PA, USA.

Post-tensioned Transfer Girder Design for Buildings, **Almila Uzel** and Neb Erakovic, 2008 Post Tensioning Institute Technical Conference and Exhibition, May 4-8, St. Louis, MO, USA.
<http://www.post-tensioning.org/Uploads/Conference/2008%20Convention/S2-3%20-%20PT%20Transfer%20-%20Almila%20Uzel.pdf>

- **Reports**

Structural Behavior of Prestressed Hollow Core Slab Elements Subjected to Repeated Loading, F. Karadogan, E. Yuksel, E. Orakdogen, A. Ilki, **A. Eroz**, Technical Report, Structural and Earthquake Engineering Laboratory, Istanbul Technical University, (No.96R-002), March 1996.

Supervised Undergraduate Theses

- *Yunus Emre Ceşen*, “Design of an 8 Storey Reinforced Concrete Office Building with 2 Underground Parking Levels”, January 2013.
- *Taşkın Baran Çalış, Çağatay Çat, Yeşim Ünal*, “Design of a 10 Storey Reinforced Concrete Office Building with 2 Underground Parking Levels”, June 2013
- *Kemal Kaplan*, “Design of an 8 Storey Reinforced Concrete Office Building with 2 Underground Parking Levels”, January 2014.
- *Neslihan Çömez*, “Evaluation of Shear Design Provisions of TS500 for Slender Reinforced Concrete Beams with Stirrups”, January 2014.
- *Hikmet Süleymanoğlu, Enes Taruz, Şifa Özge Uysal*, “Design of a 10 Storey Post-tensioned Reinforced Concrete Office Building with 2 Underground Parking Levels”, June 2014
- *Francisco Polo Tobarra*, “Effect of Clamping Stresses on Shear Strength of Deep Beams”, June 2014
- *Cenk Bayserke*, “Evaluation of Shear Design Provisions of TS500-2000 for Large Footings”, June 2014

Structural Analysis and Design Software Knowledge

VecTor-Non-linear Finite Element Analysis Programs
Response2000-Sectional Analysis Program
Response2000 w/clamping-Sectional Analysis Program
DRAIN 2DX-Structural Dynamic Analysis Program
Ram ConcePT, Adapt RC, Adapt PT, SAFE, ETABS, SAP

Research Interests

Design and analysis of disturbed regions
Shear design of reinforced concrete members
Design of post-tensioned members
Influence of loading conditions on shear strength of RC members.

Teaching Interests

Reinforced Concrete Design

Post-tensioned Concrete Design
Theory of Structures
Strength of Materials
Structures, Materials and Design