The 2006-2008 Research Report is published by the Zachry Department of Civil Engineering at Texas A&M University, College Station, Texas.

www.civil.tamu.edu
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11 Coastal and Ocean Engineering Division

25 Construction, Geotechnical, and Structural Engineering Division

51 Environmental and Water Resources Engineering Division

61 Transportation and Materials Engineering Division

77 Graduate and Post-Doctoral Advisees

83 Undergraduate Research Students

85 Editorial Board Service

Reporting January 2006 - May 2008
From the Head

The Zachry Department of Civil Engineering at Texas A&M University is at the forefront of civil engineering research. Faculty and students are conducting state-of-the-art research in nine distinct areas of civil engineering as well as in ocean engineering. This report provides insight into the breadth and depth of our research activities, covering the period of January 2006 through May 2008. Despite our department’s large size and the range of research topics, we share a common vision – to build a Community of Scholars. Our students learn in the classroom and in the laboratory from some of the top researchers in their fields. We continue to add faculty who not only bring a dedication to teaching and mentoring, but are working at the cutting edge and helping to define the future of civil engineering and ocean engineering. Scholarship and discovery are at the core of what we do in the Zachry Department of Civil Engineering.

Civil Engineering at Texas A&M University has a rich history dating back to 1876 when Texas A&M opened its doors as a small military college. The first Civil Engineering degree was awarded in 1880. The Department of Civil Engineering was formally established in 1887. By 1905, the first Master of Science in Civil Engineering was awarded. Today, more than 100 years since the first CE graduate degree was awarded, our department ranks among the top engineering programs in the country. Our undergraduate and graduate programs are both ranked in the top-10 nationally among public institutions. Our department is the largest civil engineering program in the country with more than 1100 undergraduate students, 400 graduate students, and 70 full-time faculty. The department’s research expenditures exceeded $11 million in FY 2007. Our department has evolved since its inception and over the last 15 years has completed its transformation from a department with a primary focus on undergraduate teaching to one that competes nationally in research while maintaining excellence in teaching.

I invite you to learn more about our research programs and our faculty members’ achievements in the pages of this report. For more information, please visit our webpage (www.civil.tamu.edu). Our research programs and scholarly contributions have earned us a ranking among the top research universities in the nation. As we embark on our second century of graduate education, Civil Engineering at Texas A&M University will continue to be a leader in research and discovery.

David V. Rosowsky, Ph.D., P.E., F. ASCE
A.P. and Florence Wiley Chair Professor and
Head, Zachry Department of Civil Engineering

Leadership in the Zachry Department of Civil Engineering

Dr. David V. Rosowsky
Department Head

Dr. Roger E. Smith
Associate Department Head for Undergraduate Studies

Dr. José M. Roesset
Associate Department Head for Graduate Studies & Research

Dr. Jun Zhang
Coastal and Ocean Engineering Division Head

Dr. Joseph M. Bracci
Construction, Geotechnical and Structural Engineering Division Head

Dr. Mary Beth D. Hueste
Construction, Geotechnical and Structural Engineering Assistant Division Head

Dr. Robin Autenrieth
Environmental and Water Resources Engineering Division Head

Dr. H. Gene Hawkins, Jr.
Transportation and Materials Engineering Division Head
About the Department

Fall 2008 enrollment | 1545
Undergraduates | 1134
Graduates | 411
(Masters, 247 | Doctoral, 164)

7th Undergraduate | 8th Graduate
## COASTAL AND OCEAN ENGINEERING LABS

- Dredging Laboratory
- Haynes Coastal Engineering Laboratory
- Hydromechanics Laboratory
- Ocean Engineering Laboratory

## CONSTRUCTION, GEOTECHNICAL AND STRUCTURAL ENGINEERING LABS

- Construction Materials Laboratory
- Electrochemistry Laboratory
- Geotechnical Graduate Laboratory
- Geotechnical Research Laboratory
- Geotechnical Undergraduate Laboratory
- High-Bay Structural and Materials Testing Laboratory

## ENVIRONMENTAL AND WATER RESOURCES ENGINEERING LABS

- Biological Processes Laboratory
- Chemical Processes Laboratory
- Natural Systems Laboratory
- Environmental Engineering Teaching Laboratory
- Water Resources Laboratory

## TRANSPORTATION AND MATERIALS ENGINEERING LABS

- Advanced Characterization of Infrastructure Materials Laboratory
- Bituminous Materials Section Laboratory
- Environmental Chambers Laboratory
- Construction Materials Laboratory
- Unsaturated Soils Mechanics and Dynamics Laboratory

## OTHER CENTERS AND LABS

- Center for Dredging Studies (TEES)
- Center for Infrastructure Engineering (TEES)
- National Geotechnical Experimentation Site
- Offshore Technology Research Center (TEES)
- TransLink™ Intelligent Transportation Systems Laboratory (TTI)

*Texas Engineering Experiment Station (TEES)*
*Texas Transportation Institute (TTI)*
<table>
<thead>
<tr>
<th>COASTAL AND OCEAN ENGINEERING DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chang, Kuang-An</td>
</tr>
<tr>
<td>Chen, Hawn-Ching</td>
</tr>
<tr>
<td>Edge, Billy</td>
</tr>
<tr>
<td>Falzarano, Jeffrey</td>
</tr>
<tr>
<td>Irish, Jennifer</td>
</tr>
<tr>
<td>Kaihatu, James</td>
</tr>
<tr>
<td>Kim, Moo-Hyun &quot;Joseph&quot;</td>
</tr>
<tr>
<td>Lynett, Patrick</td>
</tr>
<tr>
<td>Mercier, Richard</td>
</tr>
<tr>
<td>Niedzwecki, John M. (see CGS)</td>
</tr>
<tr>
<td>Randall, Robert</td>
</tr>
<tr>
<td>Roesset, Jose M. (see CGS)</td>
</tr>
<tr>
<td>Socolofsky, Scott</td>
</tr>
<tr>
<td>Zhang, Jun, Division Head</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ENVIRONMENTAL AND WATER RESOURCES ENGINEERING DIVISION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autenrieth, Robin L., Division Head</td>
</tr>
<tr>
<td>Batchelor, Bill</td>
</tr>
<tr>
<td>Boulanger, Bryan</td>
</tr>
<tr>
<td>Brumbelow, Kelly</td>
</tr>
<tr>
<td>Cahill, Anthony T.</td>
</tr>
<tr>
<td>Chu, Kung-Hui (Bella)</td>
</tr>
<tr>
<td>Hann, Roy W.</td>
</tr>
<tr>
<td>Olivera, Francisco</td>
</tr>
<tr>
<td>Singh, Vijay P., Joint Appointment</td>
</tr>
<tr>
<td>Wood, Thomas, Joint Appointment</td>
</tr>
<tr>
<td>Wurbs, Ralph</td>
</tr>
<tr>
<td>Ying, Qi</td>
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<tr>
<td>Zechman, Emily</td>
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<thead>
<tr>
<th>CONSTRUCTION, GEOTECHNICAL AND STRUCTURAL ENGINEERING DIVISION</th>
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<tbody>
<tr>
<td>Abu Al-Rub, Rashid</td>
</tr>
<tr>
<td>Anderson, Stuart D.</td>
</tr>
<tr>
<td>Aubeny, Charles</td>
</tr>
<tr>
<td>Barroso, Luciana R.</td>
</tr>
<tr>
<td>Beason, W. Lynn</td>
</tr>
<tr>
<td>Biscontin, Giovanna</td>
</tr>
<tr>
<td>Bracci, Joseph M., Division Head</td>
</tr>
<tr>
<td>Briaud, Jean-Louis</td>
</tr>
<tr>
<td>Damjanovic, Ivan D.</td>
</tr>
<tr>
<td>Ford, David N.</td>
</tr>
<tr>
<td>Fry, Gary T.</td>
</tr>
<tr>
<td>Gardoni, Paolo</td>
</tr>
<tr>
<td>Harris, Charles E. “Ed”, Joint Appointment</td>
</tr>
<tr>
<td>Hite Head, Monique</td>
</tr>
<tr>
<td>Hueste, Mary Beth D., Assistant Division Head</td>
</tr>
<tr>
<td>Hurlebaus, Stefan</td>
</tr>
<tr>
<td>James, Ray W.</td>
</tr>
<tr>
<td>Jones, Harry L.</td>
</tr>
<tr>
<td>Keating, Peter B.</td>
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<tr>
<td>Kohutek, Terry L.</td>
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<tr>
<td>Lowery, Lee L., Jr.</td>
</tr>
<tr>
<td>Mander, John</td>
</tr>
<tr>
<td>Maxwell, Donald A.</td>
</tr>
<tr>
<td>Morgan, James R.</td>
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<tr>
<td>Murff, J. Don</td>
</tr>
<tr>
<td>Niedzwecki, John M.</td>
</tr>
<tr>
<td>Reddy, J.N., Joint Appointment</td>
</tr>
<tr>
<td>Reinschmidt, Kenneth F.</td>
</tr>
<tr>
<td>Roesset, Jose M.</td>
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<tr>
<td>Roschke, Paul N.</td>
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<tr>
<td>Rosowsky, David V.</td>
</tr>
<tr>
<td>Stubbs, Norris</td>
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<tr>
<td>Sweetman, John A. (Bert), Joint Appointment</td>
</tr>
<tr>
<td>Trejo, David</td>
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<td>Walweski, John</td>
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<thead>
<tr>
<th>TRANSPORTATION AND MATERIALS ENGINEERING DIVISION</th>
</tr>
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<tbody>
<tr>
<td>Burris, Mark</td>
</tr>
<tr>
<td>Epps Martin, Amy</td>
</tr>
<tr>
<td>Grasley, Zachary</td>
</tr>
<tr>
<td>Hawkins, H. Gene, Jr., Division Head</td>
</tr>
<tr>
<td>Little, Dallas N.</td>
</tr>
<tr>
<td>Lord, Dominique</td>
</tr>
<tr>
<td>Lytton, Robert</td>
</tr>
<tr>
<td>Masad, Eyad</td>
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<tr>
<td>Quadrifoglio, Luca</td>
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<tr>
<td>Smith, Roger E.</td>
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<tr>
<td>Zhang, Yunlong</td>
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<td>Zollinger, Dan G.</td>
</tr>
</tbody>
</table>
## ENDOwed Chair Holders

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Jean-Louis Briaud</td>
<td>Spencer J. Buchanan Chair in Civil Engineering</td>
</tr>
<tr>
<td>Dr. Dallas N. Little</td>
<td>E. B. Snead ’25 Chair in Transportation Engineering</td>
</tr>
<tr>
<td>Dr. Robert Lytton</td>
<td>Fred J. Benson Chair in Civil Engineering</td>
</tr>
<tr>
<td>Dr. John M. Niedzwecki</td>
<td>R. P. Gregory ’32 Chair in Civil Engineering</td>
</tr>
<tr>
<td>Dr. David V. Rosowsky</td>
<td>A. P. and Florence Wiley Chair in Civil Engineering</td>
</tr>
</tbody>
</table>

## ENDOwed Professorship Holders

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Stuart D. Anderson</td>
<td>Zachry Professorship in Design and Construction Integration II</td>
</tr>
<tr>
<td>Dr. Robin L. Autenrieth</td>
<td>A. P. and Florence Wiley Professorship III</td>
</tr>
<tr>
<td>Dr. Billy L. Edge</td>
<td>W. H. Bauer Professorship in Dredging Engineering</td>
</tr>
<tr>
<td>Dr. John B. Mander</td>
<td>Zachry Professorship in Design and Construction Integration I</td>
</tr>
<tr>
<td>Dr. Paul N. Roschke</td>
<td>A. P. and Florence Wiley Professorship I</td>
</tr>
</tbody>
</table>

## DEVELOPMENTal Professorship Holders

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Anthony T. Cahill</td>
<td>J. Walter “Deak” Porter ’22 and James W. “Bud” Porter ’51 Developmental Professorship</td>
</tr>
<tr>
<td>Dr. Amy Epps Martin</td>
<td>E. B. Snead ’25 Development Professor II (2004-2007)</td>
</tr>
<tr>
<td>Dr. Mary Beth D. Hueste</td>
<td>E. B. Snead ’25 Development Professor II (2007-Present)</td>
</tr>
<tr>
<td>Dr. Eyad Masad</td>
<td>E. B. Snead ’25 Development Professor I</td>
</tr>
<tr>
<td>Dr. David Trejo</td>
<td>Zachry Development Professorship I</td>
</tr>
</tbody>
</table>

## Dwight Look College of Engineering ENDOwed Chairs and Professorships

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Bill Batchelor</td>
<td>Arthur McFarland (1905) Professorship in Engineering</td>
</tr>
<tr>
<td>Dr. Robert E. Randall</td>
<td>Ford Motor Company Professorship II in Engineering</td>
</tr>
<tr>
<td>Dr. Kenneth F. Reinschmidt</td>
<td>J. L. “Corky” Frank/Marathon Ashland Petroleum LLC Chair in Engineering Project Management</td>
</tr>
<tr>
<td>Dr. Jose M. Roesset</td>
<td>Wofford Cain ’13 Senior Chair of Engineering in Offshore Technology</td>
</tr>
<tr>
<td>Dr. Roger E. Smith</td>
<td>Herbert D. Kelleher Professorship in Transportation</td>
</tr>
</tbody>
</table>
The Faculty

About the Faculty

Total Faculty | 71
Professors | 29
Associate Professors | 19
Assistant Professors | 21
Lecturers | 02

Endowed Chair Holders | 07
Endowed Professorship Holders | 12
National Academy of Engineering Members | 02
KUANG-AN CHANG  
Associate Professor  
PhD: Cornell University, 1999  
PE: Texas  

RESEARCH INTERESTS  

SPONSORED RESEARCH  
"Realtime Monitoring of Scour Events Using GPS Technology," Texas Department of Transportation (TxDOT), 2007-2010.  

PUBLICATIONS  
REFEREED ARTICLES IN ARCHIVAL JOURNALS  


**HAMN-CHING CHEN**

Professor

PhD: University of Iowa, 1982
PE: Texas

**RESEARCH INTERESTS**

Computational Fluid Dynamics, Turbulence Modeling, Ship and Submarine Hydrodynamics, Vortex-Induced Vibrations, Wave-Current-Structure Interactions, Green Water and Wet Deck Slamming, Bridge Scour, Channel Migration, Internal Cooling and Film Cooling of Turbine Blades.

**SPONSORED RESEARCH**


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


Faculty | Coastal and Ocean

PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


Dr. Billy Edge conducted wave research in the Haynes Coastal Engineering Laboratory, successfully creating and testing scaled-down rock barriers representing permanent breakwater structures at Puerto Acu near Rio de Janeiro, Brazil. The structure is a ‘berm’ breakwater composed of massive armor layers.

Researchers conduct wave gages in the Haynes Coastal Engineering Lab.

The Haynes Coastal Engineering Lab’s three-dimensional basin is equipped to demonstrate wave spreading.
RESEARCH INTERESTS


SPONSORED RESEARCH


PUBLICATIONS

CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS

RESEARCH INTERESTS
Coastal Engineering; Coastal Storm Surge, Hazard Risk, and Response to Climate Change; Coastal Morphodynamics; Vegetated Wave and Nearshore Dynamics.

SPONSORED RESEARCH

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS

ARTICLES IN CONFERENCE PROCEEDINGS

OTHER PUBLICATIONS

MOO-HYUN “JOSEPH” KIM
Professor
PhD: Massachusetts Institute of Technology, 1989

RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS
FULL BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)


REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


PATRICK J. LYNETT
Associate Professor
PhD: Cornell University, 2002

RESEARCH INTERESTS
Numerical Modeling of Coastal Processes, Tsunami Propagation and Runup, Wind Wave Evolution from Deep to Shallow Water, Sediment Transport in the Coastal Zone, Wave Interaction with Permeable Structures such as Breakwaters, Internal Waves.

SPONSORED RESEARCH

PUBLICATIONS
FULL BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS
**RICHARD S. MERCIER**  
Professor  
Director, Offshore Technology Research Center  
PhD: Massachusetts Institute of Technology/Woods Hole Oceanographic Institution, 1985

**RESEARCH INTERESTS**


**SPONSORED RESEARCH**


**PUBLICATIONS**

**REFEREED ARTICLES IN ARCHIVAL JOURNALS**


ROBERT E. RANDALL

Ford Motor Company Endowed Professor II
Director, Center for Dredging Studies

PhD: University of Rhode Island, 1972
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS
CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS

ARTICLES IN CONFERENCE PROCEEDINGS


SCOTT A. SOCOLOFSKY

Assistant Professor
PhD: Massachusetts Institute of Technology, 2001

RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS
JUN ZHANG
Professor
Head, Coastal and Ocean Division
ScD: Massachusetts Institute of Technology, 1987

RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS

REFereed ARTICLES IN Archival Journals


ARTICLES IN Conference PROCEEDINGS


ARTICLES IN Conference PROCEEDINGS


RASHID K. ABU AL-RUB  
Assistant Professor  
PhD: Louisiana State University, 2004

RESEARCH INTERESTS
Multi-scale Theoretical, Computational, and Experimental Solid and Structural Mechanics, High Speed Impact Damage, Nonlocal and Strain Gradient Theories, Size Effects at the Micron and Nano Length Scales, Damage and Fracture Mechanics, Cyclic Plasticity, Mechanics of the Micro/nano Structures (e.g. Thin Films, Nanowires, Electronics).

SPONSORED RESEARCH


"Pathways to the Doctorate Research Assistantship Award," Texas A&M University, 2008-2010.

PUBLICATIONS
FULL BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


STUART D. ANDERSON
Zachry Professor in Design and Construction Integration II
PhD: The University of Texas, 1989
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH
“Minnesota Department of Transportation Cost Estimation Improvement and Organizational Improvement Project, Phases III and IV,” Parsons Brickherhoff Americas, 2008.


“Synthesis on Construction Unit Costs Development,” Texas Department of Transportation (TxDOT) Project 0-6023, 2007-2008.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RESEARCH INTERESTS

SPONSORED RESEARCH


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


GIOVANNA BISCOTIN
Associate Professor
PhD: University of California, Berkeley, 2001

RESEARCH INTERESTS

SPONSORED RESEARCH


PUBLICATIONS
CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RESEARCH INTERESTS


SPONSORED RESEARCH

“Structural Assessment of ‘D’ Regions affected by Premature Concrete Deterioration,” Texas Department of Transportation (TxDOT), 2007-2011.

“Lap Splice and Development Length Performance in ASR and/or DEF Damaged Concrete Elements,” TxDOT, 2006-2010.

“Engineering Engines,” National Science Foundation, through the Mid-America Earthquake Center, 2005-2006.

PUBLICATIONS

FULL BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)


REFEREED ARTICLES IN ARCHIVAL JOURNALS


RESEARCH INTERESTS

SPONSORED RESEARCH
“Scour Monitors for Scour Critical Bridges,” Texas Department of Transportation (TxDOT), 2007-2010.
“Protection of Embassies against Suicide Terrorist Trucks,” Department of State, 2007-2008.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


A recent flume test in an abutment scour experiment involving cohesive soils reveals the evolution of a channel bed. The above figures depict the evolution after 40 and 80 hours. The photo on the right shows the test area after the completion of the experiment.


ARTICLES IN CONFERENCE PROCEEDINGS


### Ivan Damjanovic

**Assistant Professor**

PhD: The University of Texas, 2006

#### Research Interests


#### Sponsored Research

- "Quantifying the Effects of Network Improvement Actions on the Value of New and Existing Toll Road Projects," Texas Department of Transportation (TxDOT), 5881-RMC 2, 2007-2009.
- "Impact of Reconstruction Strategies on System’s Performance Measures: Maximizing Safety and Mobility while Minimizing Lifecycle Costs," University Transportation Center for Mobility, 2007-2008.
- "Review and Analyze Current Methodology for Developing Highway Cost Index (HCI)," TxDOT, 2007.

#### Publications

**Referred Articles in Archival Journals**


### David N. Ford

**Associate Professor**

PhD: Massachusetts Institute of Technology, 1995

PE: Louisiana

#### Research Interests

Project Dynamics, Managerial Real Options, System Dynamics Modeling Methodology, Evolutionary Acquisition and Open Systems in Program Management, Managing Professional Services Firms.

#### Sponsored Research

- "Consultant Errors and Omissions Correction and Collection Procedures," Texas Department of Transportation (TxDOT), 2007.

#### Chapters in Books (Published, Edited, Authored or Co-Aauthored)


#### Referred Articles in Archival Journals


ARTICLES IN CONFERENCE PROCEEDINGS


This experiment was part of a project aimed at improving assessments of timber railroad bridge safety and measured the live-load distribution and axial deformation of timber railroad bridge piling.

---

RESEARCH INTERESTS

Design of Steel Structures, Fatigue and Fracture of Structural Weldments Under Cyclic Loading, Rolling Contact Fatigue, Railroad Engineering.

SPONSORED RESEARCH


PAOLO GARDONI  
Assistant Professor
PhD: University of California, Berkeley, 2002

RESEARCH INTERESTS

SPONSORED RESEARCH
“Development of a Pilot Graduate Course in Engineering Ethics” National Science Foundation (NSF), 2008-2010.


“Lap Splice and Development Length Performance in ASR and DEF Damaged Concrete Elements,” Texas Department of Transportation (TxDOT), 2007-2010.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


Jung, B.-C., Gardoni, P., and G. Biscontin. 2007 “Probabilistic Soil Classification Based on Cone Penetration Tests,” ICASP10, Tokyo, Japan.


Gardoni, P., and C. Murphy. 2006. “Risk Analysis and Society: a Capabilities-based Account of the Consequences of Natural or Man-made Disasters,” Eighth International Conference on Probabilistic Safety Assessment and Management (PSAM8), New Orleans, LA.


MÔNİQUE HITE HEAD
Assistant Professor
PhD: Georgia Institute of Technology, 2007

RESEARCH INTERESTS

SPONSORED RESEARCH


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS

ARTICLES IN CONFERENCE PROCEEDINGS


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS

ARTICLES IN CONFERENCE PROCEEDINGS


MARY BETH D. HUESTE  
E.B. Snead '25 Associate Professor II  
Assistant Head, Construction, Geotechnical and Structural Division  
PhD: University of Michigan, 1997  
PE: Kansas, Texas

RESEARCH INTERESTS

SPONSORED RESEARCH
“Vulnerability Functions,” National Science Foundation through the Mid-America Earthquake Center, 2005-2008.
Self-Consolidating Concrete for Precast Structural Applications,” Texas Department of Transportation (TxDOT), 2004-2007.

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS

ARTICLES IN CONFERENCE PROCEEDINGS
RESEARCH INTERESTS


SPONSORED RESEARCH


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RAY W. JAMES
Associate Professor
Director, Engineering Student Advising and Development
PhD: The University of Texas, 1976

RESEARCH INTERESTS

PUBLICATIONS
CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

JOHN B. MANDER
Zachry Professor in Design and Construction Integration I
PhD: University of Canterbury, New Zealand, 1984

RESEARCH INTERESTS

SPONSORED RESEARCH
“Structural Assessment of ‘D’ Region Affected of Premature Concrete Deterioration,” Texas Department of Transportation (TxDOT), 2007-2011.


PUBLICATIONS
BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


JAMES R. MORGAN  
Associate Professor  
Co-Director, North Texas Science, Technology, Engineering, and Mathematics Center  
PhD: University of Illinois at Urbana-Champaign, 1979  
PE: Texas

RESEARCH INTERESTS

Engineering Education, STEM Education (including middle school and high school), Structural Dynamics, Earthquake Engineering.

SPONSORED RESEARCH


PUBLICATIONS

CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)


REFEREED ARTICLES IN ARCHIVAL JOURNALS

ARTICLES IN CONFERENCE PROCEEDINGS
Morgan, Jim, and Luciana Barroso. April 2008. “Implementing New Program Criteria for Civil Engineering Programs,” Texas Section ASCE spring meeting, Corpus Christi, TX.


Morgan, James, and Luciana Barroso. October 2006. “Projects in Department-Wide Junior Civil Engineering Courses,” Fifth ASEE Global Colloquium on Engineering Education, Rio de Janeiro, Brazil.


JOHN M. NIEDZWECKI
Regents Professor and
R.P. Gregory ’32 Chair Professor
Executive Associate Dean, Associate Director of TEES
PhD: The Catholic University of America, 1977
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


LNG tanker and deep draft ATP experiments performed by Dr. Niedzwecki at the Offshore Technology Research model basin in the Research Park in College Station.
RESEARCH INTERESTS

Project management; Identification, Assessment, Mitigation, and Management of Project Risks; Analysis of uncertainty (second moment theory; Monte Carlo simulation); Optimal Setting of Project Contingencies and Management Reserves; Stable Assignments of Risks and Rewards to All Project Participants (Game Theory; Nash Equilibria); Concurrent Engineering, Construction and the Impacts of Changes (Ripple Effect); Earned Value Management; Continuous Prediction of Confidence Bands for Project Cost at Completion and Project Duration at Completion Using Reported Project Data (Kalman Filter; Bayesian Inference); Simulation of Construction Field Operations (Monte Carlo); Visual Construction Sequence Modeling (4-D Modeling, Virtual Construction, Construction Visualization) for Constructability Review and Construction Planning.

SPONSORED RESEARCH

“Feasibility Study for Development of Marine Exposure Test Site,” Texas Department of Transportation (TxDOT), 2007.


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS

JOSE M. ROESSET
Wofford Cain ’13 Senior Chair Professor
Associate Department Head for Graduate Studies & Research
PhD: Massachusetts Institute of Technology, 1964
PE: Spain

RESEARCH INTERESTS
Dynamics, Earthquake Engineering, Dynamic Soil-Structure Interaction, Fluid Structure Interaction.

SPONSORED RESEARCH

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS

PAUL ROSCHKE
A.P. and Florence Wiley Professor I
PhD: Purdue University, 1973
PE: Arizona, California, New Mexico, Texas

RESEARCH INTERESTS
Vibration Control of Structures; Magnetorheological Dampers; Shape Memory Alloys; Fuzzy Logic and Genetic Algorithms for Control; Development of Anti-seismic Devices.

SPONSORED RESEARCH


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


DAVID V. ROSOWSKY
A.P. and Florence Wiley Chair Professor

PhD: Johns Hopkins University, 1990
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


DAVID TREJO
Zachry Development Professor I

PhD: University of California, Berkeley, 1997
PE: California, Texas

RESEARCH INTERESTS
Evaluation of Material Deterioration Processes and Mechanisms; Cement-based and Metallic Materials and Structures; Electrochemistry; Design for Durability and Performance; Construction Engineering; Constructability Issues; Service-life Prediction of Infrastructure Systems; Life-cycle Modeling; Design of Temporary Structures.

SPONSORED RESEARCH


“Lap Splice and Development Length Performance in ASR and/or DEF Damaged Concrete Elements,” TxDOT, 2006-2010.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


JOHN WALEWSKI
Assistant Professor
PhD: The University of Texas, 2005

RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS

CHAPTERS IN BOOKS


ARTICLES IN CONFERENCE PROCEEDINGS
RESEARCH INTERESTS

SPONSORED RESEARCH

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS

RESEARCH INTERESTS
Simulation, Design and Operation of Chemical, Physical and Biological Processes for Treating Water, Wastewater and Hazardous Wastes; Water Management in Energy Systems; Reductive Treatment Processes for Chlorinated Organics, Arsenic, Chromate and Nitrate.

SPONSORED RESEARCH

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS
BRYAN BOULANGER
Assistant Professor
PhD: University of Iowa, 2004

RESEARCH INTERESTS

SPONSORED RESEARCH

KELLY BRUMBELOW
Assistant Professor
PhD: Georgia Institute of Technology, 2001

RESEARCH INTERESTS

SPONSORED RESEARCH


PUBLICATIONS
CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS


Using a “virtual city” called Micropolis, Dr. Brumbelow develops water system planning scenarios. These two scenario cities have suffered different water system damages and the graphic shows how far a fire caused by two explosions would spread due to the city’s constrained water supply.
KUNG-HUI (BELLA) CHU  
Assistant Professor  
PhD: University of California, Berkeley, 1998  
PE: California; Taiwan, R.O.C.

RESEARCH INTERESTS
Bioremediation of Priority Contaminants (Biotechnology), Biodegradation and Biotransformation of Emerging Contaminants (Biotechnology), Biological Treatment of Wastewater (Biotechnology), Monitoring and Identification of Microbial Contaminants in Drinking Water and Surface Water (Biotechnology, Molecular Microbiology), Microbial Ecology of Photosynthetic, Hydrogen-producing Microorganisms (Molecular Microbiology, Biotechnology).

SPONSORED RESEARCH
“New Approaches to Evaluate the Biological Degradation of RDX in Groundwater,” The Strategic Environmental Research and Development Program, Department of Defense, 2008-2011.


“MOA-Harris County,” Harris County Watershed Protection Program, 2008.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS

FRANCISCO OLIVERA  
Associate Professor  
PhD: The University of Texas, 1996  
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH


“Control of Non-Point Source Loads in the Hickory Creek Sub-Basin of the Lake Lewisville Watershed as a Component of a Watershed-Based Water Quality Trading Program,” Texas Commission for Environmental Quality (TCEQ) through the City of Denton, 2005-2008.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


VIJAY P. SINGH
Caroline & William N. Lehrer Distinguished Chair in Water Engineering and Professor
PhD: Colorado State University, 1974
DSc: University of the Witwatersrand, 1998
PE: University of the Witwatersrand, 1998

RESEARCH INTERESTS

PUBLICATIONS
TEXT BOOKS AUTHORED OR CO-AUTHORED


BOOKS EDITED


SPECIAL ISSUES OF JOURNALS


CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED - 2008 ONLY)


ARTICLES IN ARCHIVAL JOURNALS (2008 Only)


ARTICLES IN CONFERENCE PROCEEDINGS


RALPH A. WURBS
Professor
Associate Director, Texas Water Resources Institute
PhD: Colorado State University, 1978
PE: Texas

RESEARCH INTERESTS
Water Resources Systems Planning and Management, Hydrologic and Hydraulic Engineering, River/reservoir System Modeling.

SPONSORED RESEARCH

PUBLICATIONS
CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS

QI YING
Assistant Professor
PhD: University of California, Davis, 2004

RESEARCH INTERESTS

SPONSORED RESEARCH
“Regulating Traffic Flows under Air Quality Constrains in Metropolitan Areas,” Funded by University Transportation Center for Mobility, 2008-2009.

PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS
EMILY M. ZECHMAN
Assistant Professor
PhD: North Carolina State University, 2005

RESEARCH INTERESTS

PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RESEARCH INTERESTS
Transportation Economics, Travel Behavior in Response to Pricing, HOT Lanes, Managed Lanes, Value of Travel Time.

SPONSORED RESEARCH


“Truck Traffic Patterns due to Variable Toll Rates – Austin Texas,” Federal Highway Administration and Texas Department of Transportation (TxDOT), 2006-2008.


PUBLICATIONS
REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


AMY EPPS MARTIN
Associate Professor
PhD: University of California, Berkeley, 1997
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH
“Evaluation of Binder Aging and its Influence in Aging of Hot Mix Asphalt Concrete, Texas Department of Transportation (TxDOT),” 2007-2012.


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RESEARCH INTERESTS


SPONSORED RESEARCH


“Structural Assessment of D-region Affected by Premature Concrete Deterioration, Texas Department of Transportation, 2007-2011.


PUBLICATIONS

CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

REFEREED ARTICLES IN ARCHIVAL JOURNALS


H. GENE HAWKINS, JR.
Associate Professor
Head, Transportation and Materials Division
Associate Director-TAMU Southwest Region University Transportation Center (SWUTC)
Director-SWUTC Transportation Scholars Program

PhD: Texas A&M University, 1993
PE: Texas

RESEARCH INTERESTS

SPONSORED RESEARCH


“Qualification of Mobile Retroreflectometers,” Texas Department of Transportation (TxDOT), 2004-2006.

PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


DALLAS N. LITTLE
E.B. Snead ’25 Chair Professor of Transportation Engineering
Senior Research Fellow of Texas Transportation Institute
Associate Director International Center for Aggregate Research (In cooperation with the University of Texas at Austin)
PhD: Texas A&M University, 1979
PE: Colorado, Mississippi, Texas

RESEARCH INTERESTS

SPONSORED RESEARCH


Structural Assessment of D-region Affected by Premature Concrete Deterioration,” Texas Department of Transportation, 2007-2011.


PUBLICATIONS
CHAPTERS IN BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)

(This is one of 10 invited chapters. Other chapters will include: Self Healing by Micro-Encapsulation by Prof. Scott White, University of Illinois; Bio-Inspired Materials, Prof. Peter Fratzl, Max Planck Institute; Theoretical Models of Self Healing, Prof. Michael Rubinstein, University of North Carolina; Cemenetitous Materials, Prof. Victor Li, University of Michigan; Characterization of Self Healing Behavior, Prof. Nancy Sottos, University of Illinois; Structural Polymer Systems, Prof. Bert Meyer, Eindhoven University of Technology; Metals, Prof. Zhonghua Li, School of Naval Architecture, Shanghai Jiao Tong University; Composites and Hydrids, Dr. Ian Bond, University of Bristol, and General Aspects of Self Healing, Prof. Sybrand van der Zwaag, Delft University).


REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


DOMINIQUE LORD
Assistant Professor
PhD: University of Toronto, 2000
PE: Ontario, Quebec

RESEARCH INTERESTS

SPONSORED RESEARCH


“Guidelines for Designing Bridge Piers and Abutments for Vehicle Collisions,” Texas Department of Transportation (TxDOT), 2007-2010.


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RESEARCH INTERESTS

SPONSORED RESEARCH


“X-Ray Computed Tomography System for Microstructure Characterization, Analysis, And Modeling,” National Science Foundation (NSF) and Texas A&M University, 2004-2007


PUBLICATIONS
FULL BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)


**REFEREED ARTICLES IN ARCHIVAL JOURNALS**


ARTICLES IN CONFERENCE PROCEEDINGS


LUCA QUADRIFOGLIO
Assistant Professor
PhD: University of Southern California, 2005

RESEARCH INTERESTS

SPONSORED RESEARCH


PUBLICATIONS

FULL BOOKS (PUBLISHED, EDITED, AUTHORED OR CO-AUTHORED)
Quadrifoglio L. 2008. A Hybrid Fixed and Flexible Transportation Service, VDM Verlag, Saarbrücken, Germany.

REFEREED ARTICLES IN ARCHIVAL JOURNALS


RESEARCH INTERESTS


SPONSORED RESEARCH


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


ARTICLES IN CONFERENCE PROCEEDINGS


RESEARCH INTERESTS

Concrete Pavement Design, Behavior, Reliability, and Performance; Mechanical, Physical, and Chemical Characterization of Portland Cement Concrete; Non Destructive Testing of Structural Systems; Fracture and Transport Mechanics.

SPONSORED RESEARCH

“Develop Mechanistic/Empirical Design for CRCP,” Texas Department of Transportation (TxDOT), 2007-2010.


“Using Cement Paste Rheology to Predict Concrete Mix Design Problems,” TxDOT, 2005-2006.


PUBLICATIONS

REFEREED ARTICLES IN ARCHIVAL JOURNALS


Faculty | Graduate and Post-Doctoral Advisees
STUART D. ANDERSON

MASTER OF ENGINEERING

MASTER OF SCIENCE


CHARLES AUBENY

DOCTOR OF PHILOSOPHY


ROBIN AUTENRIETH

MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY


LUCIANA R. BARROSO

MASTER OF SCIENCE

BILL BATCHELOR

MASTER OF ENGINEERING


MASTER OF SCIENCE

Trenton W. Hughes, “An Evaluation Of Membrane Materials For the Treatment Of Highly Concentrated Suspended Salt Solutions In Reverse Osmosis and Nanofiltration Processes For Desalination,” 2006 (co-advised with Dr. Tim Kramer).

DOCTOR OF PHILOSOPHY


GIOVANNA BISCOVIN

MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY

BRYAN BOULANGER

MASTER OF SCIENCE

JOSEPH M. BRACCI

MASTER OF ENGINEERING

MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY

JEAN-LOUIS BRIAUD

MASTER OF ENGINEERING

Matt Miller, “The Ellison Building Slab on Grade on Shrink-Swell Soil,” 2006.


DOCTOR OF PHILOSOPHY


KELLY BRUMBELOW

MASTER OF SCIENCE


DOCTOR OF PHILOSOPHY

MARK W. BURRIS

MASTER OF ENGINEERING


Ben Sperry, "Induced Demand at Mixed-Use Developments," 2008.

Geoffrey Chum, "Potential Mode Shift from Transit to HOV on an HOT Lane," 2007.


DOCTOR OF PHILOSOPHY

KUANG-AN CHANG
MASTER OF ENGINEERING

MASTER OF SCIENCE


DOCTOR OF PHILOSOPHY


HANM-CHING CHEN
MASTER OF ENGINEERING

DOCTOR OF PHILOSOPHY


Huitao Yang, Mechanical Engineering, "Investigation of Flow and Film Cooling on the Turbine Blade Edge Region," 2006 (co-advised with Dr. J.C. Han).


POST-DOCTORAL ADVISEES
Dr. Juan P. Pontaza, Texas A&M University, 2004-2006.

KUNG-HUI (BELLA) CHU
MASTER OF SCIENCE


POST-DOCTORAL ADVISEES
Dr. Chang-Ping Yu, National Taiwan University, 2001.

BILLY L. EDGE
MASTER OF ENGINEERING


MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY
Young Hun Park, "Overwash Induced by Storm Conditions," 2006.

AMY EPPS MARTIN
MASTER OF ENGINEERING

MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY


DOCTOR OF PHILOSOPHY
Srinivas Vishnubholtha, "A New Method to Predict Vessel Capsizing in a Realistic Seaway," 2007 (University of New Orleans).

GARY T. FRY
MASTER OF ENGINEERING

MASTER OF SCIENCE

PAOLO GARDONI
MASTER OF ENGINEERING

MASTER OF SCIENCE


DOCTOR OF PHILOSOPHY


H. GENE HAWKINS, JR.
MASTER OF ENGINEERING

MASTER OF SCIENCE
Cameron Williams, "Field Location of No-Pass Zones Due to Vertical Alignment Using the Global Positioning System," 2008.


MARY BETH D. HUESTE

MASTER OF SCIENCE

STEFAN HURLEBAUS

MASTER OF ENGINEERING

MASTER OF SCIENCE


Hrishikesh Sharma, “Design of a Bridge Bumper to Protect Bridge Girders against Collisions from Overheight Vehicles,” 2007 (co-advised with Dr. Paolo Gardoni).

DOCTOR OF PHILOSOPHY

JENNIFER L. IRISH

MASTER OF ENGINEERING
Gregery Balsmeier, “Physical Model of Wave Damping by Vegetation Following Wave Breaking,” 2007 (with Dr. James Kaihatu as official advisor).

MASTER OF SCIENCE

JAMES M. KAIHATU

MASTER OF ENGINEERING


MOO-HYUN “JOSEPH” KIM

MASTER OF SCIENCE


DOCTOR OF PHILOSOPHY


POST-DOKTORAL ADVISEES
Dr. Shan Ma, Harbin University, China, 2007.


DALLAS N. LITTLE

MASTER OF SCIENCE


DOCTOR OF PHILOSOPHY


DOMINIQUE LORD

MASTER OF ENGINEERING


PATRICK J. LYNETT

MASTER OF ENGINEERING

MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY

JOHN B. MANDER

MASTER OF SCIENCE


DOCTOR OF PHILOSOPHY


Eyad Masad  
**Master of Science**  


**Doctor of Philosophy**  

Richard S. Mercier  
**Doctor of Philosophy**  


John M. Niedzwiecki  
**Master of Science**  


**Doctor of Philosophy**  

Francisco Olivera  
**Master of Science**  

**Doctor of Philosophy**  


Kenneth F. Reinschmidt  
**Master of Engineering**  

MASTER OF SCIENCE  


**Doctor of Philosophy**  

Jose M. Roesset  
**Doctor of Philosophy**  

Paul Roschke  
**Master of Science**  


David V. Rosowsky  
**Doctor of Philosophy**  
Donna Choe, “Seismic Fragility Estimates and Sensitivity Analyses for Corroding Reinforced Concrete Bridges,” 2007 (co-advised with Dr. P. Gardoni).

**Post-Doctoral Advisees**  
Dr. Weichiang Pang, Michigan Technological University, 2004.

Dr. Kyung Ho Lee, Oregon State University, 2004.

Dr. Mauricio Sanchez-Silva, University of Bristol, 1996.

Vijay P. Singh  
**Post-Doctoral Advisees**  

Roger E. Smith  
**Doctor of Philosophy**  

**Doctor of Engineering**  

Scott A. Socolofsky  
**Master of Science**  

**Doctor of Philosophy**  

**Post-Doctoral Advisees**  
Dr. Eletta Negretti, University of Karlsruhe, 2007.

David Trejo  
**Master of Science**  


Ralph A. Wurbs  
**Master of Engineering**  


**Master of Science**  
DOCTOR OF PHILOSOPHY
Chae Kwan Lim, posthumous graduation, 2007.

POST-DOCTORAL ADVISEES
Dr. Chunfang Yue, Associate Professor, Xinjiang University of China.

EMILY M. ZECHMAN
MASTER OF SCIENCE

JUN ZHANG
MASTER OF ENGINEERING

MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY

YUNLONG ZHANG
MASTER OF SCIENCE

DOCTOR OF PHILOSOPHY

DAN G. ZOLLINGER
MASTER OF ENGINEERING

DOCTOR OF PHILOSOPHY
Faculty | Undergraduate Research Students

ROBIN AUTENRIETH

LUCIANA R. BARROSO

GIOVANNA BISCINTIN

JOSEPH M. BRACCI

KELLY BRUMBELOW

KUANG-AN CHANG

KUNG-HUI (BELLA) CHU

AMY EPPS MARTIN

JEFFREY FALZARANO

DAVID N. FORD

GARY T. FRY

MONIQUE HITE HEAD

STEFLAN HURLEBAUS

EMILY M. ZECHMAN

ROBERT F. MCKINNEY

DAVID D. MILLER

SCOTT A. SOCOLOFSKY

FAYEZ MORGAN

JENNIFER L. IRISH

JAMES M. KAIHATU

PATRICK J. LYNETT

JAMES R. MORGAN

CHARLES S. MORGAN
RASHID K. ABU AL-RUB

CHARLES AUBENY

GIOVANNA BISCINTIN

KUANG-AN CHANG

HAMN-CHING CHEN
Associate Editor, ASCE Journal of Waterway, Port, Coastal, and Ocean Engineering, 2002-Present.

AMY EPPS MARTIN
Associate Editor, ASCE Journal of Transportation Engineering, 2008-Present.

DAVID N. FORD
Managing Editor, System Dynamics Review, 2007-Present.

STEFAN HURLEBAUS

MOO-HYUN “JOSEPH” KIM

DOMINIQUE LORD
Editorial Board of Accident Analysis & Prevention, 2005-Present.

JOHN B. MANDER
Editorial Board, Earthquake Engineering and Structural Dynamics, 2003-Present.

EYAD MASAD
Associate Editor, Journal of Materials in Civil Engineering, ASCE, 2003-Present.

FRANCISCO OLIVERA
Associate Editor, ASEC Journal of Hydrologic Engineering, 2007-Present.
Associate Editor, ASCE Journal of Water Resources Planning and Management, 2007-Present.

LUCA QUADRIFOGLIO

ROBERT E. RANDALL
Associate Editor, Journal of Dredging Engineering, 1999-Present

JOSE M. ROESSET

DAVID V. ROSOWSKY
Editorial Board, Structural Safety, 2008-Present.

JUN ZHANG