

UCSD ACADEMIC BIOGRAPHY/BIBLIOGRAPHY FORM

Name: Last, First, Middle RESTREPO, JOSÉ IGNACIO
 Department Structural Engineering Title(s) Professor Step III

Section I: Employment History and Education

Previous Applicable Employment

Please provide a full account of your time from the date of your first academic (or otherwise relevant) employment to the present, including any periods when you were not employed. Indicate part-time appointments. Provide salary or approximate annual earnings in all cases. Please include all previous University of California employment. You may provide supplementary information if necessary.

Period of employment From: To:	Institution, firm or organization of employment	Location	Rank, title, or position	Approximate annual salary
07/13 – 07/10 – 06/13 07/07– 06/10 07/01 – 06/07 11/00 – 06/01	UC San Diego	San Diego, CA	Professor Step III OS Professor Step II OS Professor Step I OS Associate Professor Assoc. Prof. In-res.	\$120,000 \$103,600 \$ 99,100 \$ 77,400-96,700 \$ 74,300
01/98 – 06/01 12/95 – 12/98 04/92 – 11/95 02/87 – 03/92	University of Canterbury	Christchurch, New Zealand	Senior Lecturer Lecturer Post-doctoral fellow Graduate Res. Asst.	
02/84 – 10/86	Universidad de Medellin	Medellin, Colombia	Lecturer	

Education

School, college, university, or hospital (internship, residency, or fellowship)	Dates of attendance	Location	Major subject or field	Degrees or certificates	Date received
University of Canterbury	1987-1993	Christchurch, New Zealand	Civil Engineering	Ph.D	1993
Universidad de Medellin	1978 - 1983	Medellin, Colombia	Civil Engineering	C.E.	1987

Please indicate areas of sub-specialization or board certification, if any. Also include a list of special licenses or permits and the dates received.

Section II: Professional Data

Provide a list of your activities, with dates of award or service, in each of the following eight categories.

(a) University Service (Include service at the departmental, college, Academic Senate, campus-wide, and system-wide levels.)

2001 Member, Graduate Affairs Committee
2001 Member, Undergraduate Affairs Committee
2002-2004 Faculty Representative, Academic Senate
2002-2006 Associate Director, Charles Lee Powell Structural Research Laboratories
2002-2006 Chair, Undergraduate Laboratories, Department of Structural Engineering
2005-2008 Director, Robert and Natalie Englekirk Structural Center
2005-2007 PI for the NSF sponsored Operation and Maintenance project for the NEES@UCSD site.
2006-2010 Member, Mexico Initiative Steering Committee Reporting to UCSD Chancellor Fox
2006-2013 Director of Operations, Charles Lee Powell Structural Research Laboratories
2007-2009 Member, UCSD Education Abroad Committee
2007-2012 Member, Structural Engineering Consultative Committee
2007-2008 Alternate Faculty Representative, Academic Senate
2007-2014 Co-PI for the NSF sponsored Operation and Maintenance project for the NEES@UCSD site
2009- Alternate Faculty Representative to the Pacific Earthquake Engineering Center (PEER)
2010- Faculty member, Campus-wide UC Haiti Initiative, <http://www.uchaiti.org>
2012-2014 Co-founder and Faculty President, UCSD Colombian American Association, <http://caa.ucsd.edu>
2015- Member, Charles Lee Powell Laboratories Committee (**NEW**)

(b) Memberships (Include scholarly societies, professional boards, civic organizations, etc.)

Member, Network for Earthquake Engineering Simulation (NEES)
Member, American Society of Civil Engineers (ASCE)
Member, Federation Internationale du Beton (FIB)
Member, Earthquake Engineering Research Institute (EERI)
Member, American Concrete Institute (ACI)
Member, Precast / Prestressed Concrete Institute (PCI)
Member, New Zealand Society of Structural Engineers (SESOC)
Member Society Hispanic Professional Engineers (SHPE)

(c) Honors and Awards (Include the dates they were received.)

1989 New Zealand Earthquake and War Commission Scholar
1998 Commendation for the Seismic Retrofit Design of the Aotea Quay Overbridge, New Zealand Concrete Society
2003 Adjunct Professor, ROSE School, University of Pavia, Italy
2003-2005 Associate Editor, Journal of Structural Engineering, American Society of Structural Engineering
2004 **Best Teacher Award**, Department of Structural Engineering
2006 **Charles C. Zollman Award**, Precast/Prestressed Concrete Institute
2006 **Chester Paul Siess Award**, American Concrete Institute
2006 Speaker, Presidential Awardees for Excellence in Math and Science Teaching Day, Washington D.C.

2008	James Cooper Best Paper Award , Sixth National Conference on Bridges and Highways, Federal Highway Administration
2009	Martin P. Korn Award , Precast/Prestressed Concrete Institute
2009	Professor Honoris Causa bestowed by the Private University of Trujillo for the significance of the accomplishments in Earthquake Engineering, Trujillo, Peru
2012	Alfred Noble Prize , American Society of Civil Engineers
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2013	Best of What's New , Popular Science Magazine NEW
2014	Proquest Most Accessed Thesis , (Bolander), November NEW
2014-	Member of the Editorial Board, Journal of Building Engineering, Elsevier NEW
2014	Best Report , Big Beam International Contest, Precast/Prestressed Concrete Institute NEW

(d) Contracts and Grants Please provide the following information for current contracts and grants:

Project/Proposal Title: **Evaluation and Improvement of Design Methods and Details for Shear Keys and Stem Walls in Bridge Abutments**

Role: **Co-PI 30%** (PI: Shing 70%)

Source of Support: **California Department of Transportation (Caltrans)**

Total Award Amount: **\$658,740** Total Award Period Covered: **06/27/11-09/30/15**

Project/Proposal Title: **NEES Operations**

Role: **Co-PI 16.7%** (PI: Luco 50% Co-PIs: Conte 16.7% Shing 16.7%)

Source of Support: **National Science Foundation via Purdue University**

Total Award Amount: **\$1,164,347** Total Award Period Covered: **10/01/11 – 9/30/12**

Total Award Amount: **\$1,217,134** Total Award Period Covered: **10/01/12 – 9/30/13**

Total Award Amount: **\$1,215,439** Total Award Period Covered: **10/01/13 – 9/30/14**

Proposal Title: **NEESR: Inertial Force-Limiting Floor Anchorage Systems for Seismic-Resistant Building Structures Via U. Arizona**

Role: **UCSD PI 100%** (PI: Fleischman, U Arizona)

Source of Support: University of Arizona/National Science Foundation

Total Award Amount: **\$565,252 (UCSD allocation)** Total Award Period Covered: **10/01/11-08/31/15**

Proposal Title: **Development and Deployment of a Broadband Seismic Monitoring Package for Structural Engineering Applications**

Role: **PI 80%** (Co-PI: Bock 20%)

Source of Support: **UC Mexus**

Total Award Amount: **\$13,000** Total Award Period Covered: **07/01/12 - 12/31/15**

Project/Proposal Title: **Cyclic Performance Characterization of Large Diameter Reinforcing Steel Bars and Mechanical Couplers**

Role: **PI 70%** (Co-PI: Shing 30%)

Source of Support: **California Department of Transportation (Caltrans)**

Total Award Amount: **\$629,393** Total Award Period Covered: **02/26/14 - 02/14/17**

Project/Proposal Title: **Feasibility Study Using Real-Time GPS/Seismic Displacements to Improve Disaster Management and Decisions Pertaining to Rapid Assessment of Structural Risk and Damage from Earthquakes**

Role: **Co-PI 25%** (PI: Bock 75%)

Source of Support: **NASA Shared Services**

Total Award Amount: **\$975,000** Total Award Period Covered: **08/06/14 - 08/05/17**

Project/Proposal Title: **High-Strength Steel Reinforcement in Critical Regions of Earthquake-Resistant Bridges**

Role: **PI 70%** (Co-PI: Shing 30%)

Source of Support: **California Department of Transportation (Caltrans)**

Total Award Amount: **\$960,078**

Total Award Period Covered: **02/01/15-11/30/17**

Project/Proposal Title: **Earthquake Resilient Bridge Columns**

Role: **PI 60%** (Co-PI Conte 40%)

Source of Support: **UCB/PEER**

Total Award Amount: **\$195,000**

Total Award Period Covered: **01/01/15 – 12/31/15**

(e) External Professional Activities (Examples include, but are not limited to, presentation of papers and lectures, technical service to organizations and agencies, acting as a reviewer of journal or book manuscripts or contract and grant proposals, or professional committee service.)

Invited Addresses

- 1996 - **Keynote Speaker**, “Seismic Design of Precast Concrete Buildings in New Zealand”, IX Latin American Conference in Earthquake Engineering, Santo Domingo, Dominican Republic.
- 1999 - **Keynote Speaker**, “Building Seismic Vulnerability Evaluation in New Zealand”, Silver Jubilee of the Department of Civil Engineering, Universidad Eafit, Medellin, Colombia
- 2002 - **Keynote Speaker**, “New Generation of Earthquake Resisting Systems”, First fib Congress, Federation Internationale du Beton, Osaka, Japan
- 2002 - **Keynote Speaker**, “New Generation of Earthquake Resisting Systems”, International Seminar in Civil Engineering, Silver Jubilee Conference, San Agustín National University of Perú, Arequipa, Perú
- 2002 - **Keynote Speaker**, Expo Hormigón ICH 2003, Chilean Concrete and Cement Institute, Santiago, Chile
- 2002 - **Keynote Speaker**, XIII National Conference on Structural Engineering, Puebla, Mexico
- 2002 - Speaker, “Horizontal Floor Accelerations in Multi-Story Buildings”, Seismology Committee, Structural Engineers Association of California, San Diego
- 2002 - Speaker, “Improved Performance of Precast Improved Performance of Precast Concrete Diaphragms “, 48th PCI Convention, Nashville, TN
- 2003 - **Keynote Speaker**, “New Generation of Earthquake Resisting Systems”, II ACI-PERU International Convention, American Concrete Institute, Perú Chapter, Lima, Perú
- 2003 - **Keynote Speaker**, “Emerging Precast Concrete Systems for Earthquake Resistance”, IX Congress in Prefabrication, National Association of Precast and Prestressed Concrete Manufactures, México DF, México
- 2003 - **Keynote Speaker**, “New Generation of Earthquake Resisting Systems”, II National Congress in Earthquake Engineering, Medellín, Colombia
- 2003 - Speaker, “The NEES@UCSD Large High Performance Outdoor Shake Table”, Association of Naval Architects, San Diego
- 2003 - Speaker, “Evaluation of Earthquake Induced Floor Accelerations In Buildings”, ASCE Structures Congress, Seattle
- 2003 - Speaker, “Fundamentals of Seismic Design and Assessment of Buildings”, International Round Table to discuss the Future of the Convention Center Building in Santiago, Technological University of Santiago, Santiago de los Caballeros, Dominican Republic
- 2003 - Speaker, “Self-Centering Cantilever Walls: Experimental Work”, ASCE Structures Congress, Seattle
- 2003 - Speaker, “Towards Damage-Free Earthquake-Resistant Structures”, Seismology Committee, Structural Engineers Association of California, San Diego
- 2004 - **Keynote Speaker**, “Future Trends In Earthquake Design of RC Building Structures”, IX Congress in Prefabrication, National Association of Precast and Prestressed Concrete Manufactures, Pachuca, México.
- 2004 - **Keynote Speaker**, “The NEES@UCSD Large High Performance Outdoor Shake Table”, International Symposium in Engineering DECIVEL, National University of México, Mexicali.
- 2004 - **Keynote Speaker**, “The NEES@UCSD Large High Performance Outdoor Shake Table”, XII Congress of Civil Engineering Students of Perú, Arequipa, Perú
- 2004 - Speaker, “The NEES@UCSD Large High Performance Outdoor Shake Table”, NEES Annual Conference, San Diego
- 2004 – Speaker, “The NEES@UCSD Large High Performance Outdoor Shake Table”, IEEE, San Diego Chapter

- 2004 – Speaker, “Future Trends In Earthquake Design of RC Building Structures”, Housing & Urban Research Institute, Korean National Housing Corporation, San Diego
- 2004 - Speaker, “Integrated Analytical and Experimental Approach to Precast Concrete Diaphragm Research Program”, 50th PCI Convention, Atlanta, GA
- 2004 - Speaker, “Testing of Components in Support of the San Francisco-Oakland Bay Bridge”, College of Engineers of Perú, Arequipa, Perú
- 2005 - **Keynote Speaker**, “Development of the UCSD Large High Performance Outdoor Shake Table,” First CONEIC Congress, Cochabamba, Bolivia
- 2005 - **Keynote Speaker**, “Earthquake Testing of a Full-scale Seven Story Building Slice,” IV ACI-PERU International Convention, American Concrete Institute, Perú Chapter, Lima, Perú
- 2006 – **Keynote Speaker**, “Large-scale Structural Testing”, 2006 Spring Conference., IEST, Phoenix, Arizona
- 2006 - Speaker, “Large Scale Structural Testing”, Society of Hispanic Professional Engineers, San Diego
- 2006 - Speaker, Presidential Awardees for Excellence in Math and Science Teaching Day, Washington D.C.
- 2006 – Speaker, “Blind Prediction of the Response of the 7-story Building” NEES
- 2006 - Speaker, “Role of Testing in Earthquake Engineering”, Institute of the Americas, San Diego
- 2006 - Speaker, “Shake Table Testing of a Full-scale Seven Story Building Slice,” University of Medellin, Medellin, Colombia
- 2006 – **Keynote Speaker**, “Earthquake Testing of a Full-scale Seven Story Building Slice”, Congreso Vertice, University of Baja California, Ensenada
- 2006 – Speaker, “Earthquake Testing of a Full-scale Seven Story Building Slice,” Emerging Trends in Concrete Construction, SEAOSC Professional Seminar, Los Angeles
- 2006 – Speaker, “Shake Table Testing of a Full-scale Seven Story Building Slice,” University of Pavia, Pavia, Italy
- 2006 – Speaker, “Shake Table Testing of a Full-scale Seven Story Building Slice,” University of Bologna, Bologna, Italy
- 2006 – Speaker, “Shake Table Testing of a Full-scale Seven Story Building Slice,” University of Bergamo, Bergamo, Italy
- 2006- **Keynote Speaker**, “Emerging Structural Systems for Earthquake Resistance”, First European Conference in Earthquake Engineering and Engineering Seismology, Geneva, Switzerland, September
- 2007 – Speaker, “Seismic Response of Precast Segmental Bridge Superstructures”, 19th Annual Convention, American Segmental Bridge Institute Conference, Las Vegas, November
- 2007 – KPFF Los Angeles, Lessons Learned from the UCSD 7-story Building Shake Table Test, November
- 2007 – Degenkolb Engineers, Lessons Learned from the UCSD 7-story Building Shake Table Test, San Francisco, December
- 2007 – Rutherford and Chekene, Lessons Learned from the UCSD 7-story Building Shake Table Test San Francisco, December
- 2007 – Speaker, “Lessons Learned from the UCSD 7-story Building Shake Table Test,” Department of Civil Engineering and Engineering Mechanics, University of Arizona, Tucson, December
- 2008 – Speaker, “Development of a Seismic Design Methodology for Precast Diaphragms,” in Emerging Trends in Concrete, Structural Engineers Association of Southern California,” Long Beach, CA, September
- 2008 – Speaker, “Effects of Shear Key Failure on Seismic Performance of Post-Tensioned Box Girder Bridges,” ACI Fall Convention, St Louis, Missouri, October
- 2008 – **Keynote Speaker**, “Results from the US Diaphragm Seismic Research Program,” National Association of Precast Concrete Manufacturers (ANNIPAC), Biannual Congress, Guadalajara, Mexico, October
- 2008 – Speaker, by special invitation, “Design Recommendations based on UCSD Segmental Seismic Research,” 1st International ASBI Symposium, San Francisco, November
- 2009 – Speaker, “New Trends in the Seismic Design of Ports”, Sodosismica, Santo Domingo, Dominican Republic, March
- 2009 - **Keynote Speaker** - Avances en el Diseño Sismo-Resistente de Estructuras a Partir de Modelos Numéricos Validados por Medio de Ensayes a Gran Escala, Sociedad Mexicana de Ingenieros Estructurales

- 2009 - **Keynote Speaker**, “Accelerated Bridge Construction in United States,” 2nd International Symposium on Seismic Design of Bridges, University of Michoacan, Morelia, Mexico, April
 - 2009 – Speaker by special invitation, 10th UIUC Structural Engineering Conference, University of Illinois at Urbana-Champaign, April
 - 2009 – **Keynote Speaker**, “Displacement-based Seismic Design Methods”, Colombian National Conference in Earthquake Engineering, Pereira, Colombia, May
 - 2009 – **Keynote Speaker**, “Seismic Design of Precast Buildings,” Costa Rica National Conference in Earthquake Engineering, San Jose, Costa Rica, September
 - 2009 – **Keynote Speaker**, “Emerging Trends in the Seismic Design of Buildings,” 1st Latin American Congress in Civil Engineering, Trujillo, Peru, September
 - 2009– **Webinar**, “Utilization of Precast Concrete in the Construction of Bridges in High and Moderately High Seismic Regions,” Structural Engineers Association, September
 - 2010 – Investigative journalism interview, “Damage from The Great Chile Quake of 2010,” UCSD TV (104,000 online views till 6/30/12), May
 - 2010– **Keynote Speaker**, “Lecciones del Gran Terremoto de Chile,” EBIS, Universidad Autónoma de Baja California, May
 - 2010 – Investigative journalism interview, The earthquake in Haiti, TV Azteca, Mexico
 - 2010 – KUSI News Interview, The 27 Feb 2010 Great Chilean Earthquake
 - 2010- Investigative journalism interview, The earthquake in Chile, Aqui y Ahora (Spanish Prime Time), Univision
 - 2010- Newsclip, Chile's earthquake teaches California some lessons, The Sacramento Bee
 - 2010- Investigative journalism interview, Building earthquake-proof, The Voice of San Diego, http://www.voiceofsandiego.org/science/venture/article_8cbe98a0-2651-11df-a28c-001cc4c03286.html
 - 2010 - Speaker, “Ensayo en Edificio de Muros de 7-pisos,” Universidad Pontificia Católica del Perú, Lima, June
 - 2010– **Keynote Speaker**, “Performance of Structures in the 27 February 2010 Great Maule Earthquake”, 10th Annual Meeting Southern California Earthquake Center, Palm Springs.
 - 2010– Speaker by special invitation, “Nociones Acerca de Terremotos,” Taller de Periodismo Científico, Institute of the Americas, August
 - 2010- Speaker, The Chile Earthquake, Structural Engineers Association of California, San Diego
 - 2011– Speaker by special invitation, “Ingeniería Sísmica para Periodistas,” Taller de Periodismo Científico, Institute of the Americas, June
 - 2011– Documentary Speaker, “The CTV Building Collapse,” Sunday: Current Affairs Program, Television New Zealand, August
 - 2012 –Newsclip, In California Quake Research, Boring Is the Hoped-for Result, New York Times, <http://www.nytimes.com/2012/04/18/us/in-california-quake-research-boring-is-the-goal.html>
 - 2012- TV News, With man-made quakes, engineers test lifesaving technologies, CBS News, <http://www.nytimes.com/2012/04/18/us/in-california-quake-research-boring-is-the-goal.html>
 - 2012- Newsclip, Shake Table Simulates 8.8-Magnitude Earthquake, Popular Mechanics, <http://www.popularmechanics.com/videos-shake-table-simulates-8-8-earthquake-8235577>
 - 2012- Speaker, “Preliminary findings of the shake table testing of the 5-story BNCS building,” Rutherford and Chekene, San Francisco, July
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- 2013- Speaker, “On the Probable Strength of RC Columns, Universitat degli Studio di Catania,” Italy, January **NEW**
 - 2013- Speaker, “Emerging Technologies for Seismic Resistance,” Structural Engineering Association of Catania, Italy, January
 - 2013- **Keynote Speaker**, Structural Engineers Association of California, 2013 Annual Convention, San Diego, “Ten Years of Operation of the Large Outdoor High-Performance Shake Table at UC San Diego” **NEW**
 - 2014- Speaker, Structural Engineers Association of San Diego, **San Diego**, “Implications for Practicing Engineers of the Testing at the UC San Diego Large Outdoor High-Performance Shake Table” **NEW**
 - 2014- Speaker, SHPE Region 2 Leadership Development Conference, Experimental Research in Earthquake Engineering, San Diego **NEW**
 - 2015- **Keynote Speaker**, “Base Isolation as an Alternative for Resilient Buildings,” II Panamerican Construction Congress, College of Engineers and Surveyors of the Dominican Republic, Santo Domingo, Dominican Republic. **NEW**

Externally Taught Courses

- 2003 – University of Pavia, Italy, “Elements of Seismic Design,” Graduate Course, 40 hours
2005 – University of Brescia, Italy, “Displacement-based Seismic Design,” Short Course, 15 hours
2006 – University of Pavia, “Elements of Seismic Design,” Graduate Course, 40 hours
2007 – University of Medellin, Colombia, “Displacement-based Seismic Design,” A course for professional engineers, 20 hours
2008 – University of Valle, Colombia, “Displacement-based Seismic Design,” A course for professional engineers, 20 hours
2009 – University Federico Santa Maria, Viña del Mar, Chile, “Displacement-based Seismic Design,” A course for professional engineers, 20 hours
2009 – Chilean Institute of Cement & Concrete, and the University of Concepción, Chile. “Seismic Design of Precast Concrete Structures,” A course for professional engineers, 18 hours, September
2010 – Instituto de la Construcción y la Gerencia, “Diseño por Desempeño,” A course for professional engineers, 18 hours.

2015 - Universidad de Los Andes, Bogotá, Colombia, “Seismic Design with Precast Concrete,” 40 hours. **NEW**

Journal/Conference Paper Reviewer

- ACI Structural Journal
- ASCE Journal of Structural Engineering
- ASCE Journal of Bridge Engineering
- ASCE Journal of Composites for Construction
- Journal of Earthquake Engineering and Structural Dynamics
- Journal of Earthquake Engineering
- Engineering Structures
- PCI Journal (Journal of the Precast / Prestressed Concrete Institute)
- Bulletin of the New Zealand Society for Earthquake Engineering
- XI World Conference in Earthquake Engineering, 2004
- Journal of the New Zealand Structural Engineering Society
- 8th National Conference of Earthquake Engineering, San Francisco, 2006
- Journal of Structural Engineering and Mechanics
- Advanced Concrete Technology
- XII World Conference in Earthquake Engineering, Beijing, 2008
- 9th National Conference of Earthquake Engineering, Toronto, 2010
- XIII World Conference in Earthquake Engineering, Lisbon, 2012

Conference Organization Committees and Meetings

- 2004 - Member, Organizing Committee, II NEES Annual Congress, San Diego
- 2003 - Member, Organizing Committee, ACI International Conference on Seismic Bridge Design and Retrofit, San Diego
- 2006 - Organizer, Meeting of Society of Hispanic Professional Engineers, San Diego Chapter
- 2006 - Principal Event Organizer, PCA-NEES Blind Prediction Contest
- 2006 - Principal Event Organizer, NEES Workshop on Reinforced Concrete Wall Modeling, UCSD, San Diego, CA, December 16
- 2006 - Principal Event Organizer, NEES-UCSD Seminar on Reinforced Concrete Nonlinear Modeling, UCSD, San Diego, CA, December 17
- 2007 - Organizer and Chair, 1st Workshop on Seismic Performance of Nonstructural Elements, Scripps, 8 June
- 2007 - Organizer, Meeting of Society of Hispanic Professional Engineers, San Diego Chapter
- 2008 - Organizer and Chair, 2nd Workshop on Seismic Performance of Nonstructural Elements, Scripps, 24 August

Other Events

- 2007- NEES4Kids: Educational activity for 1,100 5th and 6th grade students in the Del Mar and Escondido School Districts
- 2008 – “The Fault Zone”, Permanent Stand at the Escondido Children’s Museum, Escondido, California

Committees

- 1996 - 1998 Fédération Internationale de la Précontrainte, Commission 10, Management, Maintenance and Strengthening of Concrete Structures
- 1998 – 2001 Council Member, New Zealand Concrete Society
- 1998 – 2004 Fédération Internationale du Béton, Seismic Commission C7
- 2001 – Present Member, Precast / Prestressed Concrete Institute, Seismic Commission
- 2003 – 2005 Member, Educational Committee, KID 'U', A Center for Science Discovery
- 2004 – 2006 Associate Editor, Journal of Structural Engineering, American Society of Civil Engineers
- 2004 – 2005 Member, Committee on Loading Protocols for Structural and Non-structural Components, Applied Technology Council, ATC-58 (FEMA 461)
- 2004 Rotary Chair, Equipment Site Council, NEES
- 2008 - Present ACI 550, Precast Concrete, American Concrete Institute
- 2008 - Present ACI 543, Precast Concrete Piles, American Concrete Institute
- 2009 - Present Seismic Committee for Piers and Wharves, Coasts, Oceans, Ports, and Rivers Institute (COPRI) of the American Society of Civil Engineers
- 2012 - Present Participant, Applied Technology Council ATC-98 Project, “High Strength Reinforcement”
- 2011 - 2015 Member, Building Seismic Safety Council Provision Update Committee Diaphragm IT

2014- Present ACI 318R, High Steel Reinforcement, American Concrete Institute **NEW**

Service to Funding Agencies

- 2001 - Reviewer for the NSF SBIR Program
- 2002 - Equipment and Site Assessor, National Science Foundation, NEES Program
- 2002 - Reviewer for the National Science Foundation of Mexico, Mexico
- 2002 - Reviewer for the Australian Research Council
- 2003 - Reviewer for the National Science Foundation of Chile, Fondecyt
- 2004 - Reviewer for the NSF HBCU-RISE Program
- 2005 - Reviewer for the NSF Career Award
- 2006 - Reviewer for the NSF NEES Program
- 2006 - Reviewer for the NSF Career Award
- 2007 - Reviewer for the Science Foundation of Ireland
- 2007 - Reviewer for the NSF Career Award
- 2008 - National Science Foundation of Chile, Fondecyt

2015 - Reviewer for the Czech Science Foundation **NEW**

Academic File Review

- 2005 - Stanford University
- 2008 - Imperial College, London
- 2008 - University of Pittsburg
- 2008 - National University of Singapore
- 2009 - The George Washington University

2013 - Missouri University of Technology **NEW**

2013 - Merrimack College **NEW**

(f) Most Significant Contributions to Promoting Diversity (Examples include, but are not limited to, developing strategies for the educational or professional advancement of students in underrepresented groups, contributions that promote equitable access and diversity in education, and in activities such as recruitment, retention, and mentoring.)

2004	PEER Intern Program
2005	NSF-STARS, 2005 UCSD McNair Faculty Mentor Program Caltrans Intern Program
2006	Preuss School Intern Program NEES Intern Program UCSD McNair Faculty Mentor Program
2006-	Society of Hispanic Professional Engineers, regular meetings and other extracurricular activities
2007	NEES4Kids UCSD McNair Faculty Mentor Program I'm going to College Day
2008	Design leader: The Fault Zone, Escondido Children's Museum, Escondido, California, 2008 Preuss School Intern Program
2010	PEER Intern program UC Leads
2011	PEER Intern Program
2014-	PCI Big Beam Competition NEW

(g) Other Activities (List those that do not fit into categories a – f above, including community service).

2007	Seismic response analysis and design of a fiberglass cooling tower for EvapTech, Inc., Lenexa, Kansas.
2007	Definition of design criteria and acceptance/commissioning tests of 6-DOF servo-hydraulic shake table for FM Global, Norwood, Massachusetts.
2008	Review of nonlinear seismic response analysis and computation of demand-to-capacity ratios of the Hillview Reservoir Cover (precast/prestressed R/C frame structure) for Malcolm Pirnie, Inc., Jackson Heights, New York
2008	Seismic code check of Capitol Office Building, San Juan, Puerto Rico, for Ponce de León Corporation, San Juan, Puerto Rico.
2008	Finite element analysis of a precast/prestressed concrete hollowcore floor plank concept for Baumann Research and Development Corporation.
2011	Seismic vulnerability analysis of the Hospital Pablo Tobon Uribe in Medellin, Colombia, using three-dimensional nonlinear structural analysis.
2011	Forensic analysis of the collapse of building Alto Rio in Concepcion, Chile, using advanced nonlinear finite element analysis.

(h) Student Instructional Activities

1. Please provide the following summary data for all courses taught during this review period (may attach):

1. Undergraduate Course Evaluations

CAPE: Online Course Evaluations

Course/Title	Quarter	# Enroll	# Evals	Recommend	
				Class	Instructor
SE 151A - Design of Reinforced Concrete (A)	WI15	123	54	86%	69%
SE 151A - Design of Reinforced Concrete (A)	WI14	114	103	91%	72%
SE 152 – Seismic Design	SP13	88	20	95%	85%
SE 151A - Design of Reinforced Concrete (A)	WI13	102	60	88%	77%

SE CAPE: In-class Course Evaluation

Course/Title	Quarter	# Enroll	# Evals	Recommend	
				Class	Instructor
SE 151A - Design of Reinforced Concrete (A)	WI15	123	98	80%	81%

2. Graduate Course Evaluations

Course/Title	Quarter	# Enroll	# Evals	Recommend	
				Class	Instructor
SE223: Adv. Seismic Design	SP15	20	15	100%	100%
SE211: Adv. Reinforced Concrete	WI15	35	29	100%	100%
SE223: Adv. Seismic Design	SP14	34	29	95%	95%
SE211: Adv. Reinforced Concrete	WI14	34	26	96%	96%
SE223: Adv. Seismic Design	SP13	29	28	89%	86%
SE211: Adv. Reinforced Concrete	WI13	40	33	90%	87%

2. Please list all students mentored outside of the structured classroom setting. Please list by category (e.g., undergraduate research students, masters or doctoral candidates, postdoctoral or medical fellows, interns, residents) and indicate your role (e.g., thesis adviser, research adviser) for each student. For graduate students, indicate the year degree received when appropriate.

List here students mentored outside of the structured classroom setting:

Undergraduate Research Students:

Name of Student/Your role (thesis adviser, research adviser, etc.)

Jessie Godinho, PEER Intern, Research adviser
 Isabel Campos, NSF STARS Intern, Research adviser
 Owen Gould, PEER Intern, Research adviser
 Santana Watts, UCSD McNair, Research adviser
 Jose Amador, Caltrans Intern, Research adviser
 Anya Sidoranova, Caltrans Intern, Research adviser
 Jose Ramirez, Caltrans Intern, Research adviser
 Justin Chung, Caltrans Intern, Research adviser
 Justin Chang, Caltrans Intern, Research adviser
 Chad Closs, Caltrans Intern, Research adviser
 Alex Gascon, Caltrans Intern, Research adviser
 Dasha Tymoshenko, Caltrans Intern, Research adviser

Daniel Moroder, /Research adviser
Jose Borunda, Research adviser
Amado Carino, Research adviser
Marcelino Ascencio, Research adviser
Ana Quiroz, Research adviser
Michael Barnes, Research adviser
Maura Torres, UC Leads Intern), Research adviser, 2011
David Deutsch, PEER intern, 2011
Monica Martinez, Independent study adviser, 2012
Michael Duby, Independent study adviser, 2012

Steven Sheldrup, Independent study adviser, 2013, **NEW**

Shahin Agahzadeh, Independent study adviser, 2013, **NEW**

Ramon Aguilar, PCI Big Beam Competition Adviser, 2014 **NEW**
Andres Cuevas, PCI Big Beam Competition Adviser, 2014 **NEW**
Daniel Recio, PCI Big Beam Competition Adviser, 2014 **NEW**
Salman Sami, PCI Big Beam Competition Adviser, 2014 **NEW**
Dustin Wu, PCI Big Beam Competition Adviser, 2014 **NEW**

Masters Students:

Name of Student/Your Role (thesis adviser, research adviser, etc.)

Grace Kao, Thesis co-adviser, 1998
Damon Ho, Thesis adviser, 2000
Anthony Holden, Thesis adviser, 2000
Claire Vukajlovich, Thesis adviser, 2003
Bernd Stephan, Research adviser, Konstanz University, Germany 2003
Shana Crane, Thesis adviser, 2004
Luis Piek, Research adviser (2007 ASCE Collingwood Prize)
Andrew Bersofsky, Thesis adviser, 2005
Chris Krier, Thesis adviser, 2006
Andreas Borger, Research adviser, Konstanz University, Germany, 2006
Jared Bell, Thesis adviser, 2007
Anna Lang, Thesis adviser, 2007
Heidi Bauer, Thesis adviser, 2007
Qinger Han, Thesis adviser, Technical University of Denmark, 2008
Francesco Carrera, Thesis adviser, University of Bologna, 2010
Milena Massari, Research adviser, University of Bologna, 2011
Juan F. Velasquez, Thesis adviser, Rose School, 2011
Francesco Selva, Thesis adviser, University of Bologna, 2012
Athanasios Vervelidis, Thesis adviser, 2012
David Duck, Academic adviser, 2010
Henry Chan, Academic adviser, 2010
Jennifer Ciofalo, Academic adviser, 2010

Megan Herr, Comp. Exam Adviser, 2013
Sabina Piras, Comp. Exam Adviser, 2013

Edward Ledoux, Comp. Exam Adviser, 2013 **NEW**
Nardin Wasef, Thesis Adviser, 2013 **NEW**

Terrence McCann, Comp. Exam Adviser, 2014 **NEW**
Daniel Samson, Comp. Exam Adviser, 2014 **NEW**
Robert Sokolowski, Comp. Exam Adviser, 2014 **NEW**
Anthony Trgovcich, Comp. Exam Adviser, 2014 **NEW**
Cory Youngdale, Comp. Exam Adviser, 2014 **NEW**
Alexander Nash, Comp. Exam Adviser, 2014 **NEW**
Ricardo Romero, Comp. Exam Adviser, 2014 **NEW**
Andrew Jimenez, Comp. Exam Adviser, 2014 **NEW**
Julie Christine Bolander, Thesis Adviser, 2014 **NEW**
Yujia Liu, Committee Member, 2014 **NEW**

Ramon Rodelo L., Thesis Co-Adviser, UNAM, Mexico, 2015 **NEW**
Homero Carrion C., Defense Committee, UNAM, Mexico, 2015 **NEW**
Ezequiel León T., Defense Committee, UNAM, Mexico, 2015 **NEW**
Marcelo A. Iñiguez A., Defense Committee, UNAM, Mexico, 2015 **NEW**

Andrew Jimenez, Comp. Exam Adviser, 2015 **NEW**
Ricardo Romero, Comp. Exam Adviser, 2015 **NEW**
Justin Tan, Comp. Exam Adviser, 2015 **NEW**
Steven Tindula, Comp. Exam Adviser, 2015 **NEW**
Eric Salazar, PCI Big Beam Competition Adviser, 2015 **NEW**
Kyle Buffo, PCI Big Beam Competition Adviser, 2015 **NEW**

Julio Campa, Thesis Co-adviser, U. Estado de México, Current **NEW**
Shannon Lee, Comp. Exam Adviser, Current **NEW**
Mary Kretschmar, Comp. Exam Adviser, Current **NEW**
Kyle Buffo, Comp. Exam Adviser, Current **NEW**
Lizzie Dubay, Comp. Exam Adviser, Current **NEW**
Bonnie Ng, Comp. Exam Adviser, Current **NEW**
Derek Ring, Comp. Exam Adviser, Current **NEW**
Franklin Suarez, Comp. Exam Adviser, Current **NEW**
Josh Phillips, Comp. Exam Adviser, Current **NEW**
Manuel Juarez Cantano, Comp. Exam Adviser, Current **NEW**
Yanghong Wei, Comp. Exam Adviser, Current **NEW**
Yoshitaka Tamiya, Comp. Exam Adviser, Current **NEW**
Eric Salazar, Comp. Exam Adviser, Current **NEW**
Rehan Wain, Comp. Exam Adviser, Current **NEW**
Anthony Di Pasupil, Comp. Exam Adviser, Current **NEW**

Doctoral Students:

Name of Student/Your Role (thesis adviser, research adviser, etc.)

Iman Satyarno, Thesis co-adviser, 2000
Yung-Chih Wang, Thesis adviser, 2000
Chia-Ming Li, Thesis adviser, 2000
Robert J. Presland, Thesis adviser, 2000
Inho Ha, Thesis adviser, 2002
Eric Hines, Research adviser, 2002
Luis A. Toranzo, Thesis co-adviser, 2003
Michael Gebman, Research adviser, 2006
Marco Preti, Research adviser, University of Brescia, Italy, 2006
Marc Veletzos, Thesis adviser, 2007
Azadeh Bozorgzadeh, Research adviser, 2007
Carlos Blandon, Thesis adviser, University of Pavia, Italy, 2007
Matthew Schoettler, Thesis adviser, 2010
Marios Panagiotou, Thesis adviser, 2008
Matthew Tobolski, Thesis adviser, 2009
Andrea Belleri, Research adviser, University of Brescia, Italy, 2011
Andre Barbosa, Thesis co-adviser, 2011
Marco Fagella, Research adviser, University of Pescara, Italy, 2010
Andreas Stavridis, Committee Member, 2010
Derrick Watkins, Committee Member, 2010
Hossein Okail, Committee Member, 2009
Joao Pacheco, Doctoral defense committee member, Rose School, Italy, 2009
Gopal Adhikari, Doctoral defense committee member, Rose School, Italy, 2009
Gabriele Attanasi, Doctoral defense committee member, Rose School, Italy, 2009
Vassilis Mpampatsikos, Doctoral defense committee member, Rose School, Italy, 2009
Kushan Wijesundara, Doctoral defense committee member, Rose School, Italy, 2009
Idalmis Fernandez, thesis committee member, Cicese, Mexico, 2011
Dichuan Zhang, Doctoral defense committee member, University of Arizona, 2011

Nicholas Trombetta, Committee Member, Senate and Thesis, 2013 **NEW**
Brendan Crowell, SIO Committee Member, Senate and Thesis, 2013 **NEW**
Giovanni de Francesco, Research adviser, Università degli Studi di Catania, Italy, 2013 **NEW**

Diego Melgar Moctezuma, SIO Committee Member, Senate and Thesis, 2014 **NEW**
Juan Murcia-Delso, Committee Member, Senate and Thesis, 2014 **NEW**
Saurabh Prasad, Committee Member, Senate and Thesis, 2014 **NEW**
Gabriele Guerrini, Thesis Adviser, 2014 **NEW**
Joel Lanning, Committee Member, Senate and Thesis, 2014 **NEW**
Yong Li, Committee Member, Senate and Thesis, 2014 **NEW**

Xiang Wang, Committee Member, Senate and Thesis, 2015 **NEW**

Mustafa Mashal, Committee Member, University of Canterbury, New Zealand, 2015 **NEW**
 Valerie Sahakian, Committee Member, SIO Senate and Thesis, 2015 **NEW**
 Rodrigo Astroza, Committee Member, Senate and Thesis, 2015 **NEW**
 Hamed Ebrahimiyan, Committee Member, Senate, 2015 **NEW**
 Amadeo Flora, Co-Adviser, U. Potenza, Italy, 2015, **NEW**

Peizhou Zhang, Co-Adviser, Dalian U., China, Current, **NEW**
 Nelson Angel, Co-Adviser, U. Los Andes, Colombia, Current, **NEW**
 Christopher Trautner, Committee Member, Senate, Current **NEW**
 Timothy Johnston, SDSU/UCSD joint program, Committee Member, Senate, Current **NEW**
 Elide Pantoli, Committee Member, Senate, Current **NEW**
 Vasileous Papadopoulos, Committee Member, Senate, Current **NEW**
 Marios Mavros, Committee Member, Senate, Current **NEW**
 Georgios Tsampras, Committee Member, Lehigh U., Current **NEW**
 Michelle Chen, Thesis adviser, Current **NEW**
 David Duck, Thesis Adviser, Current **NEW**
 Arpit Nema, Thesis Adviser, Current **NEW**
 Rodrigo Carreño, Thesis Co-adviser, Current **NEW**
 John C. Holloway, Mech. Eng. Committee Member, Current **NEW**
 Alexandra Kottari, Committee Member, Senate Current **NEW**

Postdocs:

Name of Student/Your Role

Amar Rahman/Adviser (1999-2000)
 Marc Veletzos/Adviser (2007-08)
 Geonwoo Kim/Adviser (2006-08)
 Duckkee Lee/Adviser (2008-10)
 Matthew J. Schoettler/Adviser (2010-2011)

Other (List):

Name/Your Role

Liling Cao, PhD Dissertation Committee, Department of Civil and Environmental Engineering, Lehigh University, 2006.
 John Jairo Blandón, PhD Dissertation Committee, Engineering Institute, National University of Mexico, 2006.
 Roque A. Sánchez, PhD Dissertation Committee, Engineering Institute, National University of Mexico, 2008.
 Christopher Khavarian (Preuss School), 2006.
 Jose Munoz (Preuss School), 2008.

Please fill in the table below for number and type of exam committees you've served on throughout the review period:

Graduate Exam Committee type/category	# sat on during current review period
MS Comprehensive	14
MS Research	2
PhD Comprehensive	5
Senate Exam "Advance to Candidacy"	16

List students graduated during this review period:

M.Sc. by Comprehensive Exam advised by Restrepo:

Megan Herr, MSc, 2013
 Sabina Piras, MSc, 2013
 Edward Ledoux, MSc, 2013

 Terrence McCann, MSc, 2014
 Daniel Samson, MSc, 2014
 Robert Sokolowski, MSc, 2014
 Anthony Trgovcich, MSc, 2014
 Cory Youngdale, MSc, 2014
 Alexander Nash, MSc, 2014

Ricardo Romero, MSc, 2014
Andrew Jimenez, MSc, 2014
Ricardo Romero, MSc, 2014
Justin Tan, MSc, 2014
Steven Tindula, MSc, 2014

M.Sc. by Thesis:

Nardin Wasef, 2013, (Adviser: Restrepo)
Julie Bolander, 2014, (Adviser: Restrepo)

Ph.D.:

Nicholas Trombetta, 2013 (Adviser: Hutchinson)
Brendan Crowell, 2013, (Adviser: Bock, SIO)
Diego Melgar Moctezuma, 2014, (Adviser: Bock, SIO)
Juan Murcia-Delso, 2014, (Adviser: Shing)
Saurabh Prasad, 2014, (Adviser: Hutchinson)
Gabriele Guerrini, 2014 (Adviser: Restrepo)
Joel Lanning, 2014 (Adviser: Uang)
Yong Li, 2014 (Adviser: Conte)

Rodrigo Astroza, 2015 (Adviser: Conte)
Xiang Wang, 2015, (Adviser: Hutchinson)
Valerie Sahakian, (Adviser: Driscoll, SIO), 2015

(h) External Reviews of Primary Creative Work

Section III - Bibliography (attach)

A. PRIMARY PUBLISHED OR CREATIVE WORK

I. Original Peer-Reviewed Work or Listing of Creative Endeavors

1. Restrepo - Posada, J.I., Dodd, L.L., Park, R. and Cooke, N. "Variables Affecting the Cyclic Behavior of Reinforcing Steel", Journal of Structural Engineering, American Society of Civil Engineers, Vol. 120, No. 11, November 1994, pp. 3178-3196.
2. Dodd, L.L. and Restrepo - Posada, J.I., "A Model for Predicting the Cyclic Behavior of Reinforcing Steel", Journal of Structural Engineering, American Society of Civil Engineers, Vol. 121, No. 3, March 1995, pp. 433-445.
3. Restrepo J.I., Park, R. and Buchanan, A.H., "Tests on Connections of Earthquake Resisting Pre-cast Reinforced Concrete Perimeter Frames of Buildings", PCI Journal, Vol. 40 No. 4, 1995, pp. 44-61.
4. Restrepo J.I. Park, R. and Buchanan, A.H. "Design of Connections of Earthquake Resisting Pre-cast Reinforced Concrete Perimeter Frames of Buildings", PCI Journal, Vol. 40, No.5, 1995, pp. 68-81.
5. Restrepo J.I., Crisafulli, F.J. and Park, R., "Seismic Design Aspects for Tilt-up Buildings", Journal of the New Zealand Structural Engineers Society Journal (SESOC), Vol. 9, No.2, December 1996, pp. 9-24.
6. Restrepo, J.I. and Wilkinson, D., "Embedment Length of Starter Bars Grouted into Reinforced Concrete Members", Journal of the New Zealand Structural Engineers Society (SESOC), Vol. 10, No. 2, December 1997, pp. 30-36.
7. Paulay, T. and Restrepo, J.I., "Displacement and Ductility Compatibility in Buildings with Mixed Structural Systems", Journal of the New Zealand Structural Engineering Society (SESOC), Vol. 11, No. 1, April 1998, pp. 7-12.
8. Restrepo, J.I. Crisafulli, F.J. and Park, R., "How Harmful is Cold Bending/Straightening of Reinforcing Bars?" Concrete International, Vol. 21, No.4, April 1999, pp. 45-48.
9. Restrepo, J.I. and Cowan, H., "El Eje Cafetero Earthquake, Colombia of January 25 1999", Bulletin of the New Zealand Society for Earthquake Engineering, Vol 33, No. 1, March 2000, pp. 1-29.
10. Restrepo, J.I., "Issues Related to the Seismic Design of Reinforced Concrete Structural Systems", Journal of the New Zealand Structural Engineers Society (SESOC), Vol. 13, No. 1, pp. 50-58.

11. Y.C. Wang and Restrepo, J.I., "Response of RC-T-Beams Strengthened with Staggered CFRP Plates", *Journal of Composites for Construction*, American Society of Civil Engineers, Vol. 5, No. 3, 2001, pp. 188-199.
12. Y.C. Wang and Restrepo, J.I., "Investigation of Concentrically Loaded Reinforced Concrete Columns Confined with Glass-Fibre Reinforced Polymer Jackets", *Structural Journal*, American Concrete Institute, Vol. 98, No. 3, May -June 2001, pp. 377-385.
13. Rodriguez, M.E., Restrepo, J.I., and Carr, A.J., "Earthquake-Induced Acceleration in Buildings" *Earthquake Engineering and Structural Dynamics*, March 2002, Vol. 31, pp. 693-718.
14. Lin, C.M. and Restrepo, J.I., "Seismic Behaviour and Design of Reinforced Concrete Interior Beam-Column Joints", *Bulletin of the New Zealand Society for Earthquake Engineering*, Vol. 35, No. 2, June, 2002, pp. 108-128.
15. Crisafulli, F.J., Restrepo, J.I., and Park, R., "Seismic Design of Lightly Reinforced Precast Rectangular Wall Panels", *PCI Journal*, Vol. 47, No. 4, July – August 2002 pp. 104 -121.
16. Holden, T., Restrepo, J.I., and Mander, J.B., "Seismic Performance of Precast Reinforced and Prestressed Concrete Walls", *Journal of Structural Engineering*, ASCE. Vol 129, No. 3, March, 2003, pp. 286-296.
17. Crisafulli, F.J. and Restrepo, J.I., "Ductile Steel Connections for Seismic Resistant Precast Buildings", *Journal of Earthquake Engineering*, Vol. 7, No. 4, April, 2003, pp. 541-553.
18. Hines, E.M., Restrepo, J.I. and Seible, F., "Force-Displacement Characterization of Well-Confined Bridge Piers", *ACI Structural Jnl.*, Vol. 101, No. 4, July-August 2004, pp. 537-548. (ACI Paul Chester Siess Award for 2006.)
19. Seible, F., Dazio, A. and Restrepo, J.I., "Proof Testing in Support of the San Francisco-Oakland Bay Bridge", *Special Issue on Earthquake Engineering for Transportation Structures*, *Earthquake Engineering and Structural Dynamics*, Volume 34, Issue 4-5 , March 2005, pp. 369 – 391.
20. Fleischman, R., Naito, C., Restrepo, J., Sause, R., Ghosh, S., "Precast Diaphragm Seismic Design Methodology (DSDM) Project, Part 1: Design Philosophy and Research Approach," *Journal of the Precast/Prestressed Concrete Institute*, Vol. 50, No. 5, September-October, 2005, pp. 68-83. (PCI Charles C. Zollman Award for 2006)
21. Fleischman, R. B., Naito, C., Restrepo, J., Sause, R., Ghosh, S. K., Wan, G., Schoettler, M., Cao, L. "Precast Diaphragm Seismic Design Methodology (DSDM) Project, Part 2: Research Program," *Journal of the Precast/Prestressed Concrete Institute*, Vol. 50, No. 6, Nov.-Dec., 2005, pp. 14-31. (PCI Charles C. Zollman Award for 2006)
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27. Rodriguez, M.E., Restrepo, J.I. and Blandón, J.J., "Seismic Design Forces for Rigid Floor Diaphragms in Precast Concrete Building Structures," *Journal of Structural Engineering*, ASCE. Vol. 133, No. 11, Nov. 2007, pp. 1604-1615.
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45. Moaveni, B., He, X., Conte, J.P., Restrepo, J.I., and Panagiotou M., "System Identification Study of a Seven-story Full-scale Building Slice Tested on the UCSD-NEES Shake Table", Journal of Structural Engineering, ASCE, Vol. 137, No. 6, pp. 705-717, June 2011.
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47. Rodriguez, M.E., Restrepo, J.I., "Práctica y Diseño Sísmico de Edificios en México – Cambios Necesarios", Revista de Ingeniería Sísmica, No. 86, pp. 89-118, January-June 2012.
48. Salamone, S., Veletzos, M.J, Lanza di Scalea, F., Restrepo. J.I., "Detection of Initial Yield and Onset of Failure in Bonded Post-Tensioned Concrete Beams", Journal of Bridge Engineering, ASCE, Vol. 17, pp. 966-974, September 2011.
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- 50.* Blandon, C. A., Restrepo, J. I., Kawamata, Y., & Ashford, S. Seismic Performance of Pile-Supported Wharves. ACI Special Publication, SP-295. Chicago, 27-41. 2013. DOI: 10.14359/51686344 <https://www.concrete.org/publications/internationalconcreteabstractsportal?m=details&ID=51686344> **NEW**
- 51.* Blandon, C., Restrepo, J. I., & Jaradat, O. Displacement Demands and Shear Key Forces in Pile-Supported Marginal Wharves with Strong Lateral-Torsional Coupling. ACI Special Publication, SP 295, 131-148. 2013. DOI: 10.14359/51686350 <https://www.concrete.org/publications/internationalconcreteabstractsportal?m=details&i=51686350> **NEW**
- 52.* Geng, J., Melgar, D., Bock, Y., Pantoli, E., & Restrepo, J. Recovering coseismic point ground tilts from collocated high-rate GPS and accelerometers. Geophysical Research Letters, 40(19), 5095-5100. 2013. <http://onlinelibrary.wiley.com/doi/10.1002/grl.51001/abstract> **NEW**
- 53.* Fleischman, R., Restrepo, J., Naito, C., Sause, R., Zhang, D., & Schoettler, M. "Integrated Analytical and Experimental Research to Develop a New Seismic Design Methodology for Precast Concrete Diaphragms." Journal of Structural Engineering, American Society of Civil Engineers. V. 139, Special Issue: NEES 1: Advances in Earthquake Engineering, 1192–1204, 2013. [http://ascelibrary.org/doi/abs/10.1061/\(ASCE\)ST.1943-541X.0000734](http://ascelibrary.org/doi/abs/10.1061/(ASCE)ST.1943-541X.0000734) **NEW**
- 54.* Belleri, A., Moaveni, B. & Restrepo, J. I., Damage assessment through structural identification of a three-story large-scale precast concrete structure. Earthquake Engng. Struct. Dyn., 43: 61–76. 2014. <http://onlinelibrary.wiley.com/doi/10.1002/eqe.2332/abstract> **NEW**
- 55.* Restrepo, J. I., Rodriguez, M. E., Kao-Stocker, G., & Carr, A. J. Seismic Response of a Four-Story Miniature Building with Replaceable Plastic Hinges. Journal of Earthquake Engineering, 18(8), 1217-1240, 2014. <http://www.tandfonline.com/doi/abs/10.1080/13632469.2014.941046> **NEW**
- 56.* Belleri, A., Schoettler, M. J., Restrepo, J. I., & Fleischman, R. B.. Dynamic Behavior of Rocking and Hybrid Cantilever Walls in a Precast Concrete Building (with Appendix). ACI Structural Journal, 111(3), 661-672. 2014. <http://dx.doi.org/10.14359/51686778> **NEW**
- 57.* Fleischman, R. B., Restrepo, J. I., Pampanin, S., Maffei, J. R., Seeber, K., & Zahn, F.A. Damage Evaluations of Precast Concrete Structures in the 2010-2011 Canterbury Earthquake Sequence. Earthquake Spectra, 30(1), 277-306. 2014. <http://dx.doi.org/10.1193/031213EQS068M> **NEW**
- 58.* Astroza, R., Pantoli, E., Selva, F., Restrepo, J. I., Hutchinson, T. C., & Conte, J. P. Experimental evaluation of the seismic response of a roof-top mounted cooling tower. Earthquake Spectra. 2015 31(3), 1567-1589. 2015 <http://dx.doi.org/10.1193/071513EQS205M> **NEW**
- 59.* Guerrini, G., Restrepo, J. I., Massari, M., & Vervelidis, A. Seismic Behavior of Posttensioned Self-Centering Precast Concrete Dual-Shell Steel Columns. Journal of Structural Engineering, American Society of Civil Engineers, V.141, No. 4. 11 p. 2015. [http://dx.doi.org/10.1061/\(ASCE\)ST.1943-541X.0001054](http://dx.doi.org/10.1061/(ASCE)ST.1943-541X.0001054) **NEW**

II. Review and Invited Articles

III. Books and Book Chapters (Encyclopedia entries should not be listed here. List them in B.III Other Works)

- 1 Special Considerations Relating to Seismic Retrofitting, Management, Maintenance and Strengthening of Concrete Structures”, Fédération Internationale de la Précontrainte, Commission 10, Appendix 8, Co-Author as a Member of the New Zealand Concrete Society Study Group.
- 2 “Guidelines for the Use of Structural Precast Concrete in Buildings”, Centre for Advanced Engineering, University of Canterbury, January 2000, 136 pp.
- 3 “Seismic Design of Precast Concrete Building Structures”, Federation Internationale du Beton, ISBN 2-88394-067-3, January 2004, 262 pp. – *Leader Author, Chapter 5: Lateral Force Resisting Systems.*
- 4 “Concept of Self-centering Earthquake Resisting Systems”, Blue Book, Structural Engineers Association of California.
- 5 Restrepo, J.I. and Ingham, J. “Introduction to the strut-and-tie method of analysis and design”, 2009, 63. p.

- 6 Restrepo, J.I., Tobolski, M.J., and Matsumoto, E., "Development of a Precast Bent Cap System for Seismic Regions," Report 681, National Cooperative Highway Research, Washington D.C., 2011, 106 p.
-
- 7.* Astroza, R., Ebrahimian, H., Conte, J. P., Restrepo, J. I., & Hutchinson, T. C. Modal Identification of a 5-Story RC Building Tested on the NEES-UCSD Shake Table. In Topics in Dynamics of Civil Structures, V.4 Ch. 13, pp. 109-117. Springer New York. 2013. http://link.springer.com/chapter/10.1007/978-1-4614-6555-3_13 **NEW**
- 8.* Astroza, R., Ebrahimian, H., Conte, J. P., Hutchinson, T. C., & Restrepo, J. I. Evolution of Dynamic Properties of a 5-Story RC Building During Construction. In Topics in Dynamics of Civil Structures, V. 4, Ch. 19, pp. 163-173. Springer New York. 2013. http://link.springer.com/chapter/10.1007/978-1-4614-6555-3_19#page-1 **NEW**
- 9.* Belleri, A., Moaveni, B., & Restrepo, J. I. System Identification of a Three-Story Precast Concrete Parking Structure. In Topics in Dynamics of Civil Structures, V.4, Ch. 33, pp. 299-305. Springer New York. 2013. http://link.springer.com/chapter/10.1007/978-1-4614-6555-3_33#page-1 **NEW**
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IV. **Refereed Conference Proceedings** (These are fully refereed conferences with proceedings distributed widely to members of the research community. Please include the acceptance rate for each conference, if available.)

All conference papers, refereed or not, have been treated as not referred. If the abstract is refereed only I do not consider it as "fully" refereed. See Section B.I "Other Conference Proceedings"

B. OTHER WORK

I. Other Conference Proceedings

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- 16 Lin, C.M., Restrepo, J.I., and Park, R., "An Alternative Design Method for Interior Beam-Column Joints of Reinforced Concrete Moment Resisting Frames", Proceedings of the New Zealand National Society for Earthquake Engineering Technical Conference, Wairakei, March 1997, pp. 182-189.
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C. WORK IN PROGRESS (Only use if actual materials will be forwarded with the review file. Discouraged unless the proposed action is cross-over or appraisal)

Selected publications can be found at the following link:

<https://www.dropbox.com/sh/rdqbnq65wq5ujkb/AABXK775lir-rlpQLzjE5sECa?dl=0>

I have provided the information contained in the Biography/Bibliography packet or have reviewed it for accuracy.

Signature

Date