

David Howard Sanders
Professor of Civil and Environmental Engineering
University of Nevada, Reno

1/9/09 – Abbreviated CV

Research and Academic Interests

Behavior and design of structures in concrete and structural steel with emphasis in bridges and connections. Fiber Reinforced Concrete, High-Strength Concrete, Prestressed Concrete, Seismic Evaluation, Design, Retrofitting and Repair, Shake-Table Testing.

Degrees

Doctor of Philosophy - Structural Engineering

Dissertation: Design and Behavior of Anchorage Zones in Post-Tensioned Concrete Members
University of Texas at Austin, August 1990

Master of Science in Engineering - Structural Engineering

Thesis: Strength and Behavior of Double-Tee Tubular Joints in Tension
University of Texas at Austin, May 1986

Bachelors of Science with Distinction and Honor in Civil Engineering

Iowa State University, May 1984

Professional Experience

- Professor, Dept. of Civil & Environmental Eng., University of Nevada, Reno, July 2006 to present
- Associate Professor, Dept. of Civil & Environmental Eng., University of Nevada, Reno, July 1996 to June 2006
- Earthquake Simulation Development Leave, National Center for Earthquake Engineering Research, State University of New York, Buffalo, January 1996 to May 1996. (Selected by Civil Engineering Earthquake Engineering Faculty)
- Assistant Professor, Civil Engineering Dept., University of Nevada, Reno, January 1990 to July 1996.
- Research Assistant, Ferguson Structural Engineering Laboratory, University of Texas at Austin, June 1986 to December 1989.
- Research Engineer, Ferguson Structural Engineering Laboratory, University of Texas at Austin, High Strength Bolts, January 1986 to May 1986.
- Research Assistant, Ferguson Structural Engineering Laboratory, University of Texas at Austin, June 1984 to December 1985.
- Undergraduate Research Assistant, Engineering Research Institute, Structural Engineering Laboratory, Iowa State University, January 1983 to August 1983.
- Assistant Structural Engineer, Chicago Bridge and Iron Co., Oak Brook, IL, May 1982 to August 1982.

Professional Societies

- American Concrete Institute (1986 to present)
- American Society of Civil Engineers (National and State) (Structural Engineering Institute) (1983 to present)
- Truckee Meadows Branch of ASCE (1990 to present)
- Earthquake Engineering Research Institute (1994 to present)
- Network for Earthquake Engineering Simulation (2004 to present)
- Consortium of University for Research in Earthquake Engineering (2004 to present)

Honors and Awards (Selected)

- Professional Progress in Engineering Award from Iowa State University (2006)
- Iowa State University Outstanding Young Alumnus (2000)
- ACI Fellow (Spring 2000)
- Faculty Appreciation Award by CEE Students (1995, 2001, 2003, 2006, 2007)
- Selected by the College of Engineering Senior Scholar as the Faculty Member that Most Significantly Influenced their Academic Achievements (1992, 1993, 1996, 1998, 2006)
- Appreciation Awards from Student Chapter of ASCE (1991 and 1992)

National/International Activities (Selected)

- Member, ACI 318-11/14 Building Code and Commentary (2008 to present)
- Chair, Technical Activities Committee for ACI International (2008 to present), Member (2002-present)
- Member, ACI 318R, Reorganization Subcommittee (2008 to present)
- Member of AISC, American Institute of Steel Construction Partner in Education Committee (2003 to present)
- Member, ACI 318E, Shear and Torsion (1999-2002, 2005 to present)
- Organizer for US-Japan Bridge Engineering Workshop (2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009)
- Chair, ACI-ASCE Committee 445 Shear and Torsion (2003- present)
 - Secretary (1998-2003), Member (1993-present)
 - Subcommittee Chair: Strut-and-Tie Model (1993-1997)
- Full Member of ACI-ASCE Committee 423 Prestressed Concrete (1991-2001, 2003 to present)
 - Subcommittee Chair: Ultimate Flexural Capacity with Unbonded Tendons (1994-1996)
 - Subcommittee Chair: ASCE Structures Congress, 1995, 1996, 1997, 1998
- Member, ACI 341 Earthquake-Resistant Concrete Bridges
 - Member (1992-present)
 - Chair (1998-2003)
- UNR's contact for the ACI Faculty Network (1999-present)
-
- Member TRB Committee A2C03, Concrete Bridges
 - Member (1993-2008)
 - Secretary (1994-2003)
- Member of NEES Site Operations and Maintenance Committee (2004 to 2007)
- Associate Editor, ASCE Journal of Bridge Engineering (1995-1999)
- ASCE Truckee Meadows Branch Board Member, (1990-1997)
 - Treasurer (93-94), Vice President (94-95), President (95-96), Past-President (96-97)

Courses Taught at the University of Nevada, Reno

CEE 140	Introduction to Civil Engineering
ENGR 100A	Introduction into Engineering
CEE/ME 241	Statics
CEE 372	Strength of Materials
CEE 481/681	Structural Steel Design
CEE 480/680	Reinforced Concrete Design I
CEE 486/686	Reinforced Concrete Design II
CEE 483/683	Prestressed Concrete
CEE 722	Limit Design of Structural Steel and Concrete
CEE 723	Advanced Reinforced Concrete

University Committees & Service (Selected)

- Chair, University Academic Standards Committee (2008 to present)
- Chair, College Curriculum Committee (1998 to present), Member (1995 to present)
- Chair, Department Curriculum Committee (1995 to present)
- Chair, Department Bylaw Committee (2001 to present)
- ASCE/AGC Student Chapter Advisor, Department (1991 to present)
- Chair, University Academic Equity Study (2002-2004)
- University Institutional Budgets Committee (1999 to 2000)
- Member, University Merit Committee (2000 to 2003)
- Chair, University Bylaws and Code Committee (1995-1997), Member (1994 to 1997)
- Forum for the Future, University, Subcommittee Chair: Research and Graduate Studies (1995),
- College Scholarship Committee (1994 to 1996)
- Appeals Committee, University (1990 to 1993), Subcommittee Chair 1991

Graduate Students

Graduated as Main Thesis Advisor:

4 Ph.D. (Wu'95, Laplace'02, Nada'03, Mostafa'04, Almer'08)
16 M.S. (Ah-Sha'01, Asthana'01, Bahen'07, Chandane'03, Donovan'97, Jiao'97, Laplace'99; Moore'00, Nagarajah'97, Reppi'01, Romero'94, Sgambelluri'98, Taylor'08, Will'00, Yamashita'05, Zhang'93, Y. Zhang'02)

Graduated as co-Thesis Advisor:

5 Ph.D. (Wehbe'97, Darwish'97, Abo-Shadi'99, Pulido'01, Correal'04, Cheng'06, Johnson'06),
8 M.S. (Abraham'93, Martin'95, Martinovic'99, McElhaney'99, Mudri'94, Acharya'96, Darwish'96, Caywood'98)

Pending Graduation as Main Thesis Advisor:

1 Ph.D. (Ayoub, Arias)
1 M.S. (Harrison, Vallejera)

Pending Graduation as Co- Thesis Advisor:

2 Ph.D. (Motaref, PI Saiidi; Monzon, PI Buckle/Itani)

Undergraduate Research:

Bogdan Liea, NEES@UNR Summer Internship, 2008
Tiffany Reichert, NSF-EPSCoR, Undergraduate Research Opportunities Program, 2008
Nathan Harrison, NSF-EPSCoR Undergraduate Award, 2007-2008.
Jennilyn Vallejera Undergraduate Project, WAESO Project for Undergraduates, 2007.
Jennilyn Vallejera, "NEES@UNR Summer Internship, 2007.
Alex Piolatto, NEES@UNR Summer Internship, 2007.
Kim Schulte, General Undergraduate Research Award, 2007.
Neil Bahen, NSF-EPSCoR Academic Year Undergraduate Research Grant (2005-2006)
Amber Banghart, Undergraduate Independent Project and WAESO Project
Kaci Stanbury, EPSCoR Women in Science and Engineering Program

Community Service (Selected)

- Boy Scout Scoutmaster (1986-1989, Assistant: 2004 to present)
- Chair of the Board, Excel Christian School (2005 to present)
- Soccer Coach (Sp/F'1997, F'1998, F'1999, F'2002, Sp/F'2003, Sp/F'2004, Sp/F'2005, Sp/F'2006, Sp/F'2007, Sp 2008)
- Baseball Coach (F'1998, F'1999, Sp'2002)
- Volunteer for Junior Ski Program (1998, 1999, 2000, 2001, 2002, 2003)
- Church Sunday School Teacher, Adult (1991-1993), 3rd and 4th Grade (1997 to 1999)
- Church Personnel Committee Chair (1996-1997)

Reviewed Journal Publications (selected)

Johnson, N., R. Ranf, M. Saiidi, D. Sanders, M. Eberhard, "Seismic Testing of a Two-Span Reinforced Concrete Bridge," *Journal of Bridge Engineering*, ASCE, March/April 2008, pp 173-182.

Correal, J., M. Saiidi, D. Sanders, S. El-Azazy, "Analytical Evaluation of Bridge Columns with Double Interlocking Spirals," *American Concrete Institute, ACI Structural Journal*, Vol. 104, No. 3, May-June 2007, pp. 314-323.

Correal, J., M. Saiidi, D. Sanders, S. El-Azazy, "Shake Table Studies of Bridge Columns with Double Interlocking Spirals," *American Concrete Institute, ACI Structural Journal*, Vol. 104, No. 4, July-August 2007, pp. 393-401.

Laplace, P., Sanders, D.H. Saiidi, M.S., Douglas, B. El Azazy, S.; "Performance of Concrete Bridge Columns under Shake Table Excitation," *American Concrete Institute, ACI Structural Journal*, Vol. 102, No. 3, May-June 2005, pp. 438-444.

Laplace, P., Sanders, D.H. Saiidi, M.S., Douglas, B. El Azazy, S.; "Retrofitting Concrete Bridge Columns under Shake Table Excitation," *American Concrete Institute, ACI Structural Journal*, Vol. 102, No. 4, July-August 2005, pp. 622-628.

Pulido, C, M. Saiidi, D. Sanders, A. Itani, and S. El-Azazy, "Seismic Performance of Two-Column Bents, Part I – Retrofit with CFRP," *American Concrete Institute, ACI Structural Journal*, Vol. 101, No. 4, July-August 2004, pp. 558-568.

Pulido, C, M. Saiidi, D. Sanders, A. Itani, and S. El-Azazy, "Seismic Performance of Two-Column Bents, Part II –

- Retrofit with Infill Wall,” American Concrete Institute, ACI Structural Journal, Vol. 101, No. 5, September-October 2004, pp. 642-649.
- Sanders, D.H. “Dapped-End T-Beam Supported by an Inverted T-Beam”, Example for the Design of Structural Concrete with Strut-and-Tie Models, ACI Special Publication 208, pp. 91-103.
- Saiidi, M.S., Sanders, D.H., and Acharya, S., “Seismic Retrofit of Bridge Spread Footing Supporting Bridge Columns with Short Dowels,” *Journal of Construction and Building Materials*, Vol. 15, No. 4, 2001, pp. 177-185.
- Saiidi, M.S., Wehbe, N.I., Sanders, D.H. and Caywood, C.J., “Shear Retrofit of Flared RC Bridge Columns Subjected to Earthquakes,” *ASCE Bridge Journal*, Vol. 6, No. 3, May/June 2001, pp 189-197.
- Abo-Shadi, N.A., Saiidi, M.S., Sanders, D.H., “Performance-Based Design of Confinement Reinforcement in Reinforced Concrete Bridge Pier Walls for Out-of-Plane Seismic Loads,” *ACI Structural Journal*, Vol. 98, No. 1, January-February 2001, pp. 3-15.
- Abo-Shadi, N., Saiidi, M.S, and Sanders, D.H., “Out-of-plane Seismic Response of R/C Bridge Pier Walls,” *ACI Structural Journal*, Vol. 97, No. 6, November-December 2000, pp. 803-813.
- Wehbe, N.I., Saiidi, M.S, Sanders, D.H., “Seismic Performance of Rectangular Bridge Columns with Moderate Confinement,” *ACI Structural Journal*, Vol. 96, No. 2, March/April 1999, pp 248-258.
- Darwish, I.S., Saiidi, M.S., Sanders, D.H., “Seismic Retrofit of Hinged and Fixed Reinforced Concrete Bridge Columns with Short Bar Anchorage in Footings,” *ACI Structural Journal*, Vol. 96, No. 6, November/December 1999, pp 988-996.
- Sanders, D.H., Saiidi, M.S. and Martin, T., "Seismic Strengthening of Column-Pier Cap Connections," Transportation Research Record 1624, pp 93-100, 1998.
- Saiidi, M.S., Maragakis, E., and Sanders, D.H., “Evaluation and Seismic Retrofit of High Bridge Substructures with Tapered Columns,” *Journal of Construction and Building Materials*, Vol.12, No. 2-3, March-April 1998, pp 161-174.
- Sanders, D.H. and Breen, J.E., "Post-Tensioned Anchorage Zones with Single Straight Concentric Anchorages," *ACI Structural Journal*, Vol. 94, No.2, March/April 1997, pp 146-158.
- Saiidi, M.S., Wehbe, N., Acharya, S. and Sanders, D.H., "Confinement of Rectangular R/C Columns and Pier Walls," *ACI Special Publication 162, Sozen Symposium*, 1996, pp 93-116.
- Sanders, D.H. and Gordaninejad, F., and Mudri, S. "FRP Beam-to-Column Connection Using Adhesives," Proceedings of First International Conference on Composites in Infrastructure, January 15-17, 1996, Tucson, AZ.
- Sanders, D.H. and Breen, J.E., "Post-Tensioned Anchorage Zones-A Survey and A Solution," *Concrete International*, August 1995, pp 65-70.
- Maragakis, E., and Sanders, D.H., "Fatigue Reliability Analysis Program for Railroad Steel Riveted Bridges," *AREA Bulletin*, Vol. 96, Bulletin 751, May 1995, pp 191-209.
- Sanders, D.H. and Zhang, Y.J., "Bridge Deterioration Models for States with a Small Bridge Inventory," *Transportation Research Record*#1442, 1994, pp 101-109.
- Sanders, D.H. and Breen, J.E., "Generalized Approach to Design of Post-Tensioned Concrete Anchorage Zones," *Transportation Research Record*, No 1371, March 1993, pp 83-91.
- Johnson, N., Ranf, R., Saiidi, M.S, Sanders, D.H., Eberhard, M., “Shake Table Studies of a Large Scale Two-Span Reinforced Concrete Bridge Frame,” 8th National Conference on Earthquake Engineering, April 18-22, 2006, San Francisco, CA. (#1437)
- Yamashita, R. and Sanders, D. “ Unbonded Concrete Columns for Limiting Damage to Large Seismic Events,” 8th National Conference on Earthquake Engineering, April 18-22, 2006, San Francisco, CA. (#1334)
- Mostafa, K., D. Sanders, MS Saiidi and S. El-Azazy, “Impact of Aspect Ratio on the Behavior of Circular Column Systems Under Shake-Table Loading”, 2003 ASCE Structures Congress, May 29-June 1, 2003, Seattle, WA.
- Nada, H., Sanders, D., and M. Saiidi, “Behavior of Flared Column Bents under Seismic Loading,” ACI Special Publication Series SP-209, Innovations in Design with Emphasis on Seismic, Wind, and Environmental Loading; Quality Control and Innovations in Materials/Hot-Weather Concreting, December 2002, pp. 133-150.
- Nada, H., Sanders, D.H. and Saiidi, M., “Flare-Column Bents Dynamically Tested on a Shake Table”, Proceedings of the Seventh US National Conference on Earthquake Engineering, July 21-25, 2002
- Nada H., Sanders, D.H., Saiid, M.S. and El-Azazy, S., “Behavior of Flared Column Bents under Seismic Loading,” 5th ACI International Conference, Cancun, Mexico, December 10-13, 2002.
- Nagarajah, R. and Sanders, D.H., "Seismic Behavior of High Strength Fiber Reinforced Concrete Column," Sixth US National Conference on Earthquake Engineering, May 31-June 4, 1998, Seattle, Washington.

Conference Papers (last 20 selected)

- Almer, K, and D. Sanders, "Continuity of Precast Bridge U-Girders Connected to a Cast-in-Place Substructure Subjected to Seismic Loads," 14th World Conference on Earthquake Engineering, Beijing China, October 12-17, 2008.
- Ayoub, M., D. Sanders, and A. Ibrahim, "Pile to Slab Bridge Connections," 24th US-Japan Bridge Engineering Workshop, Minneapolis, MN, September 22-24, 2008.
- Almer, K, and D. Sanders, "Seismic Continuity Performance of Precast U-Girders Integrally Connected to a Cast-in-Place Substructure," Sixth National Seismic Conference on Bridges & Highways (6NSC), Charleston, SC, July 27-30, 2008.
- Johnson, N., M. Saiidi, and D. Sanders, "Nonlinear Modeling of a Two-Span Reinforced Concrete Bridge Model from Pre-Yield through Failure Utilizing Contemporary Analytical Methods," Proceedings, Session TuM-8, 4th International Conference on Bridge Maintenance, Safety, and Management, Seoul, S. Korea, July 2008, 8pp.
- Ayoub, M., and D. Sanders, "Behavior of Piles Extension Connection in Slab Bridges" (Invited), 4th International Conference in Wind and Structures, May 26-28, 2008, Jeju Korea.
- Almer, K, and D. Sanders, "Seismic Performance of Precast U-girders Integrally Connected to a Cast-in-Place Substructure," 2008 FHWA Accelerated Bridge Construction – Highway for Life, Baltimore, MD, March 20-21, 2008.
- Johnson, N., M. Saiidi, and D. Sanders, "Aspects of Shake Table Studies of A Large-Scale, Two-Span Bridge," Invited Paper, Earthquake Resistant Engineering Structures 6, International Conference, Bologna, Italy, Session on Bridges, June 2007, pp. 85-94.
- Johnson, N., M. Saiidi and D. Sanders, "Performance of a Large Scale Two-Span Bridge Model under Design Earthquake Motions," ASCE, Structural Engineering Institute, Structures Congress 2007 Proceedings, San Diego, California, May 2007.
- Almer, K, and D. Sanders, "Integral Connection Seismic Performance between Precast Girders and Cast-in-Place Bent Caps," 39th UJNR Joint Panel Meeting on Wind and Seismic Effect, Tsukuba, Japan, May 14-19, 2007.
- Almer, K and D. Sanders, "Experimental Seismic Testing of Precast U-Girders Integrally Connected to Cast-in-Place Bent Caps," 23rd US-Japan Bridge Engineering Workshop, Tsukuba Japan, November 5-7, 2007.
- Almer, K, Sanders, D.H., "Seismic Performance of Integral Connections between Cast-in-Place Substructures and Precast Concrete Superstructure," Proceeding of the 22nd US-Japan Bridge Engineering Workshop, October 23-25, 2006, Seattle, Washington.
- Saiidi, M.S. Maragakis, M., Sanders, D.H., Anderson, J, Johnson, R. Phan, V., Cheng, Z., Wang, H "Recent Earthquake Engineering Research at UNR – Four Examples: FRP Restrainers, Near-Fault Effects, Column Hinges, and Shape Memory Alloy Columns," Proceedings, National Biennial Conference on Concrete Structures and Materials, ASOCRETO, Folder on Bridges, Cartagena, Colombia, September 2006.
- Yamashita, R., Sanders, D.H., "Shake Table Testing and Analysis of a Prestressed Segmental Concrete Column," 2006 Concrete Bridge Conference HPC: Build Fast, Build to Last, May 7-9, 2006, the Nugget, Reno, Nevada.
- Almer, Kevin, Sanders, D.H., "Seismic Performance of Integral Connections Between Cast-in-Place Substructures and Precast Concrete Superstructures" 2006 Concrete Bridge Conference HPC: Build Fast, Build to Last, May 7-9, 2006, the Nugget, Reno, Nevada.
- Sanders, D.H., Yamashita, R., Almer, K., "Accelerated Construction using Precast Concrete and Prestressing," (Invited) Fourth International Workshop on Seismic Design and Retrofit of Transportation Facilities, San Francisco, March 13-14, 2006.
- Saiidi, M.S. Maragakis, M., Sanders, D.H., Anderson, J, Johnson, R. Phan, V., Cheng, Z., Wang, H. "Recent Earthquake Engineering Research at UNR – Four Examples: FRP Restrainers, Near-Fault Effects, Column Hinges, and Shape Memory Alloy Columns," 2005 ANCER Annual Meeting, Earthquake Hazard Reduction through Networked Information and Sensor Technology Global Human links for Next Generation Earthquake Engineering, November 10-13, 2005, Jeju Korea.
- Johnson, N. Saiidi, M.S., Sanders, D.H., "Analysis of the Shake Table Response of a Two-Span Bridge System," 2005 ANCER Annual Meeting, Earthquake Hazard Reduction through Networked Information and Sensor Technology Global Human links for Next Generation Earthquake Engineering, November 10-13, 2005, Jeju Korea.
- Sanders, D., Nada, H., Saiidi, M., Moustafa, K, Chandane, S. and El-Azazy, S., "Seismic Design of Flared Columns," Caltrans Bridge Research Conference, October 31 - November 1, 2005, Sacramento, CA.
- Sanders, D.H., Moustafa, K, Saiidi, M.S. and El-Azazy, S., "Seismic Design of Flared Columns," Caltrans Bridge Research Conference, October 31 - November 1, 2005, Sacramento, CA.

Saiidi, M.S., Correal, J. Sanders, D. and El-Azazy, S. "Seismic Design Issues in Bridge Columns with Interlocking Spirals," Caltrans Bridge Research Conference, October 31 - November 1, 2005, Sacramento, CA.

Reports (last 20 selected)

- Martin, B. and D. Sanders, "Verification and Implementation of Strut-and-Tie Model in LRFD Bridge Design Specifications," NCHRP Project 20-07, Task 217, August 2007.
- Bahen, N., Sanders, D., "Strut-and-Tie Modeling for Disturbed Regions in Structural Concrete Members with Emphasis on Deep Beams," Center for Civil Engineering Earthquake Research, Department of Civil and Environmental Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-07-05, December 2007.
- Cheng, Z., Saiidi, M., and Sanders, D., "Development of a Seismic Design Method for Reinforced Concrete Two-Way Bridge Column Hinges," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-06-01, February 2006.
- Johnson, N., Saiidi, M., and Sanders, D., "Large-Scale Experimental and Analytical Studies of a Two-Span Reinforced Concrete Bridge System," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-06-02, March 2006.
- Yamashita, R. and D. Sanders, "Shake Table Testing and an Analytical Study of Unbonded Prestressed Hollow Concrete Columns Constructed with Precast Segments," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-05-9, August 2005, pp 204.
- Moustafa, K. D. Sanders, and M. Saiidi, "Seismic Behavior of R/C Bridge Bents with Architectural-Flared Columns Including both Horizontal and Vertical Gaps," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-05-10, February 2005, pp 127.
- Moustafa, K. D. Sanders, and M. Saiidi, "Impact of Aspect Ratio on Two-Column Bent Seismic Performance," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-04-3, March 2004, pp 569.
- Correal, J., Saiidi, M. and Sanders, D., "Seismic Performance of RC Bridge Columns Reinforced with Two Interlocking Spirals," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-04-6, August 2004.
- Chandane, S., Sanders, D., and Saiidi, M.S., "Static and Dynamic Performance of RC Bridge Bents with Architectural-Flared Columns, Report No. CCEER 03-08, December 2003, pp 366.
- Nada, H., Sanders, D. Saiid, M.S., "Seismic Performance of RC Bridge Frames with Architectural-Flared Columns," Report no. CCEER 03-01, January 2003, pp 476.
- Zhang, Y. and D. Sanders, Torsion in High Strength Concrete Rectangular Beams, Report No. CCEER 02-04, June 2002, pp. 136.
- A. Banghart, D. Sanders, and M. Saiidi, "Evaluation of Concrete Mixes for Filling the Steel Arches in the Galena Creek Bridge", Report No. CCEER 02-05, June 2002, pp. 69.
- Claudia P., Saiidi. M.S, Sanders, D.H. and Itani, A., "Seismic Performance and Retrofitting of Reinforced Concrete Bridge Bents," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 02-01, January 2002, pp 517.
- Laplace, P., Sanders, D.H. and Saiidi, M.S., "Experimental Study and Analysis of Retrofitted Flexure and Shear Dominated Circular Reinforced Concrete Bridge Columns Subjected to Shake Table Excitation," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 01-6, June 2001, pp 452.
- Reppi, F. and Sanders, D.H., "Removal and Replacement of Post-Tensioned, Box Girder Bridge Decks," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 01-7, December 2001.
- Ah-Sha, H., Sanders, D. and Saiidi, M. "Early Age Shrinkage and Cracking of Nevada Concrete Bridge Decks", Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 01-01, May 2001, pp 236.
- Moore, J., Sanders, D. and Saiidi, M., "Shake Table Testing of Two Column Bents with Hinged Bases," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 00-09, December 2000, pp159.
- Asthana, M., Sanders, D. and Saiidi, M., "Study of One-way Reinforced Concrete Bridge Column Hinges in the Weak Direction," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 00-10, December 2000, pp130.
- Will, J. and Sanders, D., "High Performance Concrete Using Nevada Aggregates," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 00-06, May 2000, pp 109.
- McElhaney, B. and Saiidi, M., and Sanders, D., "Shake Table Testing of Flared Bridge Columns With Steel Jacket Retrofit," Civil Engineering Dept., University of Nevada, Reno, Report No. CCEER 00-03, January 2000.

Presentations (last 20 selected)

- (Invited) "Experimental Seismic Testing of Precast U-Girder, Cast-in-Place Bent Cap Bridge Joints," Session on Accelerated Bridge Design and Construction," 2008 ACI Fall Convention, St Louis, MO, November 3, 2008.
- "Continuity of Precast Bridge U-Girders Connected to a Cast-in-Place Substructure Subjected to Seismic Loads," 14th World Conference on Earthquake Engineering, Beijing China, October 12-17, 2008.
- "Pile to Slab Bridge Connections," 24th US-Japan Bridge Engineering Workshop, Minneapolis, MN, September 22-24, 2008.
- "Seismic Continuity Performance of Precast U-Girders Integrally Connected to a Cast-in-Place Substructure," Sixth National Seismic Conference on Bridges & Highways (6NSC), Charleston, SC, July 27-30, 2008 (presentation done by student Kevin Almer).
- "Impact of Combined Actions on Column Design and its Implications on System Response," NEES Sixth Annual Meeting, Portland Oregon, June 18-20, 2008.
- (Invited) "The Use of Strut-and-Tie Modeling in Bridge Design," International Bridge Conference, Pittsburgh, PA, June 3, 2008.
- (Invited) "Behavior of Piles Extension Connection in Slab Bridges", 4th International Conference in Wind and Structures, May 26-28, 2008, Jeju Korea.
- (Invited) "Seismic Behavior of Bridge Columns and Connections with Emphasis on Pile Extension Connections in Slab Bridges," Caltrans, General Earthquake Committee (GEQC) Meeting, March 26, 2008.
- "Seismic Performance of Precast U-girders Integrally Connected to a Cast-in-Place Substructure," FHWA Accelerated Bridge Conference, Baltimore, MD, March 20-21, 2008.
- (Invited Speaker), "Concrete Bridge Column Behavior including System Effects," Structural Engineering Education Reunion," Austin, Texas, March 22-23, 2007.
- "Impact of Combined Actions on Column Design and its Implications on System Response," Fifth NEES Annual Meeting, Snowbird, Utah, June 18-21, 2007.
- "Integral Connection Seismic Performance between Precast Girders and Cast-in-Place Bent Caps," 39th UJNR Joint Panel Meeting on Wind and Seismic Effect, Tsukuba, Japan, May 14-19, 2007.
- "Experimental Seismic Testing of Precast U-Girders Integrally Connected to Cast-in-Place Bent Caps," 23rd US-Japan Bridge Engineering Workshop, Tsukuba Japan, November 5-7, 2007.
- "Cooperation between NEES and E-Defense for Columns under Combined Loading," NEES/E-Defense Planning Meeting, Miki Japan, September 27-28, 2007.
- "Verification and Implementation of Strut-and-Tie Model in LRFD Bridge Design Specifications", AASHTO Concrete Committee (T10), Phoenix Arizona, October 23, 2007.
- "Seismic Performance of Integral Connections between Cast-in-Place Substructures and Precast Concrete Superstructure," Proceeding of the 22nd US-Japan Bridge Engineering Workshop, October 23-25, 2006, Seattle, Washington.
- "Seismic Simulation and Design of Bridge Columns under Combined Actions and Implications on System Response," NEES Spotlights, New Projects, 4th NEES Annual Meeting, June 21-23, 2006, Washington, DC.
- "Shake Table Testing and Analysis of a Prestressed Segmental Concrete Column," 2006 Concrete Bridge Conference HPC: Build Fast, Build to Last, May 7-9, 2006, the Nugget, Reno, Nevada. (Made by Ryo Yamashita)
- "Seismic Performance of Integral Connections Between Cast-in-Place Substructures and Precast Concrete Superstructures" 2006 Concrete Bridge Conference HPC: Build Fast, Build to Last, May 7-9, 2006, the Nugget, Reno, Nevada. (Made by Kevin Almer)
- "Unbonded Concrete Columns for Limiting Damage to Large Seismic Events," 8th National Conference on Earthquake Engineering, April 18-22, 2006, San Francisco, CA. (#1334) by Ryo Yamashita