

## BIOGRAPHICAL DATA

7/08

### M. "Saiid" Saiidi

#### Position:

Director, Office of Undergraduate Research,  
Office of Vice President for Research, &  
Professor, Department of Civil & Environmental Engineering  
University of Nevada, Reno

#### Personal Data:

Birthday: May 24, 1950  
Married, two children

Office Address: Department of Civil Engineering  
University of Nevada, Reno  
Reno, Nevada 89557  
Tel: (775) 784-4839 Fax: (775) 784-1390  
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Home Address: 2265 Augusta Ave.  
Reno, Nevada 89509  
Tel: (775) 824-0345

#### Research Interests:

Earthquake engineering of bridges and buildings, large-scale concrete bridge component and system testing, field testing of highway bridges, analysis and design of reinforced concrete structures, application of advanced materials in earthquake engineering

#### Educational Record:

Ph.D. in Civil Engineering (Structures), University of Illinois, Urbana, Illinois, 1979

M.S. in Civil Engineering (Structures), University of Illinois, Urbana, Illinois, 1977

M.S. in Civil Engineering (Five-year program), Tehran University, Tehran, Iran, 1973

## **Professional Experience:**

Director, Office of Undergraduate Research, University of Nevada, Reno, 8/03-Present

Professor, Civil Engineering Department, University of Nevada Reno, 7/88-Present  
(UNR-Foundation Professor awarded 8/97)

Visiting Scholar, Civil Engineering Department, University of California, Berkeley, 1/99-  
2/99

Chairman, Civil Engineering Department, University of Nevada, Reno, Nevada, 7/86 -  
6/94 (on sabbatical 7/92-12/92)

Associate Professor, Civil Engineering Department, University of Nevada, Reno,  
Nevada, 7/83 - 6/88 (Tenured 7/84)

Assistant Professor, Civil Engineering Department, University of Nevada, Reno, Nevada,  
8/79 - 6/83

Research Assistant, Civil Engineering Department, University of Illinois, Urbana,  
Illinois, 1/77 - 7/79

Lecturer (part-time), Civil Engineering Department, Tehran Technical College, Tehran,  
Iran, 1/75 - 5/75

Structural Engineer (half-time), Nisaya Consulting Engineers, Tehran, Iran, 6/74 -8/75

Lecturer (part-time), Civil Engineering Department, Nafisi Technical College, Tehran,  
Iran, 1/74 - 5/75

Construction Supervisor, Civil Engineering Division, Military Industrial Organization,  
Tehran, Iran, 10/73 - 4/75

Structural Engineer (half-time), Design Division, Parjam Construction Company, Tehran,  
Iran, 9/72 - 5/74

Civil Engineering Trainee, Construction of General Offices for Behshahr Industrial  
Organization, Tehran, Iran, Summer 1971

## **Software Application/Development:**

SAP 2000, NEABS, CADAM, SAKE, ISADAB, LARZ Family, NEABS-86,  
AUTOCAD, Micro-SARB, DRAIN-3DX, MathCad

## Courses Taught at the University of Nevada:

CE 140	Introduction to Civil Engineering
CE 369	Non-Metal Testing Laboratory
CE 372	Strength of Materials
CE 480/680	Reinforced Concrete Design I
CE 487/687	Reinforced Concrete Design II
CE 723	Advanced Reinforced Concrete
CE 724	Applied Elasticity
CE 727	Matrix Methods of Structural Analysis
CE 731	Advanced Dynamics of Structures

## Undergraduate Research Assistants, Graduate Students, and Research Associates:

**Undergraduate Research Assistants:** Joe Shields, Rene Lawver, Dan O'Connor, Dave Straw, Tina Fraser, Eric Hutchens, Troy Martin, Tom Attard, Dean Gardella, Matt Randall, Cory Caywood, Nat Mangoba, Anita Buzick (Bush), Catherine French, Brett McElhaney, Frank Martinovic, Jessen Mortensen, Cole Mortensen, Nathan Johnson, Linda Flournoy, Rebbecca Bryan, Mike Mayberry, Rita Johnson, Edgar Gabriel, Erik Reinhardt, Jessica Gradick, Chris Olaegbe, Ambere Banghart, Brianna Schroder, Robert Nelson, Erika Hull, Melissa O'Brien, Kelly Doyle, David Hillis, Milad Oliaee, Austin Brown, Danielle Smith.

**Graduate Research Assistants:** Ken Hodson, MSCE\*; George Ghusn, MSCE; Jim Hart, MSCE; Jim Orié, MSCE; Don Orié, MSCE; Spiro Vrontinos, MSCE; J. Shields, MSCE; Tom Ho, MSCE; Saber Abdel-Ghaffar, MSCE, PhD; Yang Jiang, MSCE, PhD; Dan O'Connor, MSCE; Binoy Abraham, MSCE; Nadim Wehbe, MSCE, PhD; Phil Robarts, MSCE; Dave Straw, MSCE; Eric Hutchens, MSCE; Greg Griffin, MSCE; Yolanda Labia, PhD; Ihab Darwish, MSCE, PhD; Manuel Coll, MSCE (Univ. of Puerto Rico, Mayaguez); Suresh Acharya, MSCE; Troy Martin, MSCE; Nagi Abo-Shadi, PhD; Matt Randall, MSCE; Cory Caywood, MSCE; S. Uthiram, MSME; Nath Mangoba, MSCE; Bryan Hansen, MSME; Ryan Moore, MSCE; Marcello Sgambelluri, MSCE; Claudia Pulido, PhD; Patrick Laplace, MSCE, PhD; Anita Buzick (Bush), MSCE; Brett McElhaney, MSCE; Z. Cheng, MSCE; Jennifer Moore, MSCE; Frank Martinovic, MSCE; Barkan Kavlicoglu, MSME; Manas Asthana, MSCE; Tassos Vlassis, MSCE; Hisham Nada, PhD; Heinere Ah-Sha, MSCE; Khaled Mustafa, PhD; Fabio Sanchez, PhD; Juan Correal, PhD; Gang Dong, MSCE; Jessen Mortensen, MSCE; Cole Mortensen, MSCE; Erik Reinhardt, MSCE; Chris Olaegbe, MSCE; Chadi Ayoub, MSCE; Hasan Mohammad, MSCE; Nathan Johnson, MSCE, PhD; Suhas Chandance, MSCE; K. Sureshkumar, MSCE; Z. Cheng, PhD; Rita Johnson, MSCE; Hongyu Wang, MSCE; Hoon Choi, PhD; Vu Phan, MSCE; Wayne Reid, PhD; Melissa O'Brien, MSCE; Kelly Doyle, MSCE; Ashkan Vosooghi, PhD, Arash Zaghi, PhD, David Hillis, PhD, Austin Brown, MSCE, Sarira Motaref, PhD, Carlos Cruz, PhD.

(\* Non-thesis MSCE students are not listed)

**Research Associates:** E. Hwang, Post-Doctoral Fellow; N. Abo-Shadi, Post-Doctoral Fellow; S. Feng, Visiting Associate Professor, Tsinghua University, China; A. Wysokowski, Visiting Researcher, Director of the Department of Field Investigations, Polish Road and Bridge Research Institute; P. Gaspersic, Visiting Researcher, University of Ljubljana, Slovenia; T. Isakovic, Visiting Fulbright Scholar, University of Ljubljana, Slovenia; G. Griffin, EERI/FEMA Professional Fellow, OBEC Consulting Engineers; Q. Yang, Visiting Professor, Northern Jiaotong University, Beijing, China, S.M. Zadeh, Visiting Professor, Toussi University, Tehran, Iran; Nathan Johnson, Research Assistant Professor, UNR.

### **National/International Committee Activities:**

(The acronyms used in this resume are as follows:

AACU: Association of American Colleges and Universities

ACI: American Concrete Institute

ASCE: American Society of Civil Engineers

ASTM: American Society for Testing and materials

EERI: Earthquake Engineering Research Institute

FHWA: Federal Highway Administration

IABMAS: International Association of Bridge Management and Safety

IABSE: International Association for Bridge and Structural  
Engineering

NEES: Network for Earthquake Engineering Simulation

PCI: Prestressed/Precast Concrete Institute

SPIE: Society of Photo-Optical Instrumentation Engineers)

ACI Committee 341 - Earthquake-Resistant Concrete Bridges

Founding Committee Chairman (1991-1997)

Chair- Subcommittee on Pier Walls (1997-2001)

ACI Committee 342 - Concrete Bridge Evaluation

ACI-ASCE Committee 352 - Joints and Connections in Monolithic Concrete

Structures (1983-present)

Chair, Subcommittee on Needed Research (1984-88)

Chair, Subcommittee on Miscellaneous Joints (1988-92)

ACI Committee 440-F – Task Force on FRP Systems for Seismic Strengthening  
of Concrete Structures

ASCE Technical Council on Lifeline Earthquake Engineering (TCLEE)

ACI Committee 440, Task Force on Seismic Design of Composites

ACI Journal Oversight Team (1998-2001)

ACI Advisory Committee on Concrete International Magazine (1999-2001)

National Cooperative Highway Research Programs Panel 12-36,  
Redundancy of Highway Bridge Superstructures (1990-1997)

National Cooperative Highway Research Programs Panel 12-47,  
Redundancy of Highway Bridge Systems (1997-2000)

National Cooperative Highway Research Programs Panel 12-70, Seismic Analysis  
and Design of Buried Structures, Slopes, and Embankments (2003-present)

Council on Tall Buildings and Urban Habitat Committee 21 - Cast in Place  
Concrete (1984-1992)

Editor, Topical Volume, Conference Proceedings

Council on Tall Buildings and Urban Habitat Committee 22 - Nonlinear Analysis  
and Limit Design (1984-1992)

ACI-ASCE Committee 343 - Concrete Bridge Design (1985-2000)

Chairman, Subcommittee on Seismic Design (1989-1995)

ACI Committee E703 - Concrete Construction (1983-1987)

ACI-ASCE Committee 442 - Ad Hoc Subcommittee to Prepare State-of- the-Art  
Report on Nonlinear Seismic Analysis of R/C Structures (1983-1991)

ASCE Technical Council on Computer Practices - Publications Committee

Editorial Board Member, Journal of Structural Engineering Review, Oxford,  
England

Nevada Testing Institute, Advisory Board Member, Las Vegas, Nevada (1994-  
1999)

Associate Editor, International Series on Advances in Earthquake Engineering,  
Southampton, England

Advisory Panel, Structures and Codes Institute, Chicago, Illinois

Advisory Committee, NSF-UNR-Combined Research-Curriculum Development  
in Computer Vision (2002-2003)

FHWA Expert Panel on Guidelines for Seismic Performance Testing of Bridge Piers (2001-2004)

FHWA Virtual Team for Condition Monitoring, Post-Disaster Evaluation, and Security of Highway Bridges (2002-2005)

European Association for Earthquake Engineering Task Group on Seismic Design, Assessment, and Retrofit of Bridges

Editorial Board Member, Journal of Earthquake Engineering and Engineering Vibration, Buffalo, New York

### **Key Committee Assignments at the University of Nevada, Reno**

Member, University of Nevada Reno Board of Regents Researcher Selection Committee, 2006-2007

Member, Distinguished Faculty Selection Committee, 2005-present

Member, McNair's Program Advisory Board, 2004-present

Member, University of Nevada System Board of Regents Researcher Selection Committee, 2003-2004

Chair, UNR Outstanding Researcher Selection Committee, 2004-2005

Member, UNR Outstanding Researcher Selection Committee, 2000-2005

Member, UNR Distinguished Teacher Selection Committee, 1999-2003

Chair, UNR Distinguished Teacher Selection Committee, 1999-2001

Chair, College of Engineering Personnel Committee, 1997-1998

Chair, UNR Distinguished Teacher Selection Committee, 1996

Member, Search Committee for the Dean of Engineering, 1995

Member, Search Committee for the Chair of Mechanical Engineering, 1995

Member, Search Committee for the Director of Environmental Science/Engineering Center, 1991

Member, Search Committee for the Dean of Engineering, 1987

Chair, College of Engineering Personnel Committee, 1986

Member, University Tenure and Promotion Committee, 1985

Member, Search Committee for the Academic Vice President, 1986

Chair, University Board on Global Studies and Student Exchange, 1983

### **Conference Organizing and Chairmanship**

Co-Director, Second NSF Workshop on Bridge Engineering Research in Progress, Reno, Nevada, 1990

Director, NSF Grantees Workshop, Natural Hazard Mitigation Programs, Lake Tahoe, Nevada, April 1995

Director, NSF US/central Europe Workshop on “Civil Infrastructure Systems for the next Century: a Global Partnership in Research” Cracow, Poland, October 1996

Director, 2<sup>nd</sup> US-Turkey Workshop on Seismic Design and Retrofit of Highway Bridges, Ankara, Turkey, September 2004.

Chairman, 1<sup>st</sup> Nevada Undergraduate Research Symposium, Reno, Nevada, April 2006.

Director, 1<sup>st</sup> FHWA/NSF Workshop on Future Directions for Long-Term Bridge Performance Monitoring, Assessment, and Management, Las Vegas, Nevada, January 2007.

Chairman, 3rd Nevada Undergraduate Research Symposium, Reno, Nevada, April 2008.

### **Chairmanship of Technical Sessions**

“Seismic Bridge Design: Five Years after Loma Prieta,” ACI Convention, Salt Lake City, March 1995

“Dynamic Response of Bridge Components and Systems,” ASCE Engineering Mechanics Conference, Denver, Colorado, May 1995

“Seismic Retrofit of Concrete Bridges,” National Concrete and Masonry Conference, San Francisco, CA, June 1995

“Response of Concrete Bridges during the Northridge Earthquake,” ACI Convention, Montreal, Canada, November 1995

“Effect of Recent Earthquakes on Concrete Bridges: Performance, Retrofit, and Design,” ACI Convention, Denver, Colorado, March 1996

US/Central Europe Workshop on Civil Infrastructure Systems For The Next Century: A Global Partnership in Research, Cracow, Poland, October 1996, (two sessions)

“Seismic Retrofit of Concrete Bridges in Regions of Moderate to High Seismicity,” ACI Convention, Seattle, Washington, March 1997

“Design of Bridges,” International Workshop on Seismic Design Methodologies for the Next Generation of Codes, Bled, Slovenia, June 1997

“Bridge Structures,” Sixth US National Conference on Earthquake Engineering, Seattle, Washington, June 1998

“Seismic Retrofit of Bridges,” Structural Engineering World Congress, San Francisco, California, July 1998

“Emerging Practice on Earthquake Resistant Design of Reinforced Concrete Bridges,” Structural Engineering World Congress, San Francisco, California, July 1998

“Seismic Design of Concrete Bridges,” ACI Convention, Chicago, Illinois, March 1999

“Hybrid Bridges,” Sixth International Conference, Association for Steel-Concrete Composite Structures (ASCCS-6), Los Angeles, California, March 2000

Third International Concrete Conference, Session A-10; Tehran, Iran, May 2000

International Symposium on Modern Concrete Composites & Infrastructure, Beijing, China, December 2000

“Seismic Retrofit of Bridge Columns,” International Conference on FRP Composites in Civil Engineering, Hong Kong, December 2001

“Strengthening of Bridges,” First Conference on Strengthening and Retrofit of Structure, Tehran, Iran, May 2002

“Durability of Composite Materials-II,” Third International Conference on Composite in Infrastructure, San Francisco, California, June 2002

“Durability of Composite Materials-II,” Third International Conference on Composite in Infrastructure, San Francisco, California, June 2002

“Shake Table Testing of Structures,” Seventh US National Conference on Earthquake Engineering, Boston, Massachusetts, July 2002

“Strengthening of Bridges,” First International Conference on Bridge Maintenance, Safety, and Management, Barcelona, Spain, July 2002

“Smart Materials and Structure,” International Conference on Advances and New Challenges in Earthquake Engineering Research, Hong Kong, China, August 2002

“Recommendations for Future Research,” 2<sup>nd</sup> US-Turkey Workshop on Seismic Design and Retrofit of Highway Bridges, Ankara, Turkey, September 2004.

“Innovative Materials in Seismic Design of Bridges,” ACI Convention, San Francisco, October 2004.

“Seismic Analysis and Retrofitting (1),” 2<sup>nd</sup> International Conference on Bridge Maintenance, Safety, and Management, Kyoto, Japan, October 2004

“Long-Term Monitoring, State-of-Practice, and Case Studies,” North-American Euro-Pacific Workshop on Sensing Issues in Civil Structural Health Monitoring, Honolulu, Hawaii, November 2004.

“Retrofitting Methods and Experiments,” 5th International Conference on Earthquake Resistant Engineering Structures, Skiathos, Greece, May-June 2005.

“T46- Seismic Design and Response Issues for Bridges,” 8<sup>th</sup> US National Conference on Earthquake Engineering, San Francisco, California, April 2006.

“Innovative Development Towards Improving Bridge Seismic Safety,” 3rd International Conference on Bridge Maintenance, Safety, and Management, Porto, Portugal, July 2006.

Session SC-C, Fifth International Seismology and Earthquake Engineering Conference, Tehran, Iran, May 2007.

“Session II – Earthquake Resistant Engineering,” 6th International Conference on Earthquake Resistant Engineering Structures, Bologna, Italy, June 2007.

“Working Session 3,” International Workshop on Advanced Structures and Materials, University of Nebraska, Lincoln, Nebraska, November 2007.

“Session B8,” The Third International Conference on Bridges, Tehran, Iran, May 2008.

“New developments in large-scale model studies of bridge components and systems subjected to earthquakes,” 4th International Conference on Bridge Maintenance, Safety, and Management, Seoul, S. Korea, July 2008.

“Seismic design and performance issues for highway bridges,” 4th International Conference on Bridge Maintenance, Safety, and Management, Seoul, S. Korea, July 2008

## **Awards and Recognitions**

Fellow of the American Society of Civil Engineers (FASCE)

Fellow of the American Concrete Institute (FACI)

Honor Society of Phi Kappa Phi

Registered Professional Engineer in the State of Nevada

Registered Professional Engineer in the State of California

Who's Who in America, 57<sup>th</sup> Edition

Who's Who in Frontiers of Science and Technology, 2nd Edition

Distinguished Leadership Award for Outstanding Contributions to Civil Engineering, 2nd Edition

Supervisor of research for paper by MSCE student, Ihab Darwish, third place winner of the 1995 International student paper competition, Earthquake Engineering Research Institute, California

Supervisor of research for paper by PhD student, Ihab Darwish, first place winner of the 1997 international student paper competition for graduate students, 14th International Bridge Conference, Pennsylvania

Foundation Professor Award, University of Nevada, Reno, August 1997

Supervisor of research for paper by PhD student, Nadim Wehbe, first place winner of the 1998 international student paper competition, Earthquake Engineering Research Institute, California

University of Nevada, Reno, Outstanding Researcher of the Year Award, May 2000

Supervisor of research for paper by PhD student, Claudia Pulido, first place winner of the 2001 international student paper competition for graduate students, 18th International Bridge Conference, Pennsylvania

Nevada Seismic Safety Commission 2002 Award for Seismic Retrofit of Las Vegas Downtown Viaduct, May 2002

Regents' Researcher Award, University and Community College System of Nevada Board of Regents, March 2003

University of Illinois at Urbana-Champaign Distinguished Alumnus Award, April 2003

Lemelson Award for Innovative Research, College of Engineering, University of Nevada, Reno, March 2004

Advisor of the Year Award, Associated Students at the University of Nevada, Reno for advising the Society of Independent Persian Students, April 2004

## **Review Work**

National Science Foundation Research Proposals

National Science Foundation Engineering Research Center Proposals

Site Evaluator, National Science Foundation Engineering Research Centers  
Natural Sciences and Engineering Research Council of Canada Proposals  
National Research Council Twinning Program Proposals  
ACI Structural Journal Manuscripts  
ACI Materials Journal Manuscripts  
ASCE Structural Engineering Journal Manuscripts  
ASCE Bridge Engineering Journal Manuscripts  
ASCE Journal of Composite Construction Manuscripts  
ASCE Computing in Civil Engineering Journal Manuscripts  
International Journal of Soil Dynamics and Earthquake Engineering Manuscripts  
ASCE Infrastructural Systems Journal Manuscripts  
International Journal of Engineering Structures Review Manuscripts  
Earthquake Spectra, Earthquake Engineering Research Institute Manuscripts  
PCI Journal Manuscripts  
International Journal of Structural Engineering and Mechanics Manuscripts  
Journal of Earthquake Engineering, United Kingdom  
Journal of Seismology and Earthquake Engineering, Iran  
International Conference on Concrete under Severe Conditions Manuscripts  
International Journal of Construction and Building Materials Manuscripts  
International Journal of Earthquake Engineering and Structural Dynamics Manuscripts  
International Journal of Advances in Structural Engineering Manuscripts  
National Concrete and Masonry Engineering Conference Manuscripts  
Seventh US National Conference on Earthquake Engineering  
The 11<sup>th</sup> and 12<sup>th</sup> World Conference on Earthquake Engineering abstracts  
Research Proposals for the Connecticut Transportation Institute  
Journal of Earthquake Engineering, Imperial College, England Manuscripts  
Session Proposals for the AACU Conference, The Student as Scholar:  
    Undergraduate Research and Creative Practice  
Research Proposals for the Sea Grant Program at the University of Puerto Rico,  
    Mayaguez  
Mexican Journal: Revista de Ingenieria Sismica  
Member of Review Panels for National Cooperative Highway Research Programs  
Member of Review Panels for the National Science Foundation research proposals

## **Society Memberships**

American Society of Civil Engineers (ASCE)  
American Concrete Institute (ACI)  
Earthquake Engineering Research Institute (EERI)  
International Association for Bridge Management and Safety (IABMAS)  
Consortium of Universities for Research in Earthquake Engineering (CUREE)  
Network for Earthquake Engineering Simulation (NEES) Consortium

## Consulting:

Desert Research Institute: Design of a steel platform to support a laser device, 9/79 - 3/80  
Holcomb Construction Company: Modification of a program on a microcomputer, 5/80 - 7/80  
Jack Means & Associates: Earthquake analysis of an irregular 7-story building, 8/80 - 9/80  
Ferrari/Howard & Associates: Application and interpretation of computer results in structural analysis of an irregular building, 10/80 - 11/80  
H.V. Lamberti Consulting Engineer: Modeling of structures on a microcomputer, 11/80  
Ferrari/Howard & Associates: Study of the failure of concrete pavement at the Reno Airport, 7/82 - 10/82  
Ferrari/Howard & Associates: Preparation of a proposal for seismic evaluation of existing buildings, 7/83 - 8/83  
Omni-Means, Ltd.: Modeling of two structures on computers, 10/83 - 12/83  
Alan T. Power, Ltd.: Review of the design of Tropicana Hotel prestressed concrete slab system, 1/84 - 3/84  
Clark Gribben & Associates: Preparation of a small business research proposal for nonlinear seismic modeling of structures, 6/85 - 7/85  
Ferrari/Howard & Associates: Review of cause of cracks in a tilt up wall structure, 1/86  
Reno Iron Works: Review of computer needs and recommendation for future direction, 4/86  
Structures Unlimited: Correlation studies of calculated and measured deflection of an R/C slab subjected to test loads, 6/86  
Ferrari/Howard & Associates: Computer-aided seismic modeling of a stepped building, 7/86 - 2/87  
Ferrari/Howard & Associates: Design of a 65-foot diameter R/C ring beam, 11/86  
Ferrari/Howard & Associates: Dynamic stability analysis of a vending machine, 3/87  
Ferrari/Howard & Associates: Vibration reduction of a composite floor system, 6/87 - 8/87  
Terra Aqua, Inc.: Testing and evaluation of different connection details of gabion wire meshes, 7/87  
Ferrari/Howard & Associates: Evaluation and retrofitting of a R/C structure for blast loads, 4/88 - 9/88  
Ferrari/Howard & Associates: Evaluation of May 1988 Henderson explosion effect on a timber roof, 8/88 - 12/88  
Ferrari/Howard & Associates: Monitoring and evaluation of cause of cracking in a multistory R/C building, 10/88 - 5/90  
Ferrari & Associates: Modeling and evaluation of a R/C structure with severe cracking, 5/89 - 5/90  
District II - Nevada Department of Transportation: Identification of trigger wind velocities to cause vehicle instability, 5/95-9/95  
Ferrari & Associates: Evaluation of two prestressed concrete parking structures with severe cracking, 12/95-4/96

Ever-Level Systems, Inc.: Analysis of a new base isolation system subjected to earthquake loads, 4/00-6/00  
Sifred & McClusky: Evaluation of wind stability of a trailer, 12/04-2/06  
S.K. Ghosh Associates: Peer review of use of MMFX steel in a multi-story concrete building, 12/05-4/06

### **Short Courses Taught**

Multistory Concrete Buildings Design, joint with Mark Fintel and S.K. Ghosh, Reno, Nevada, May 1984  
Design of Reinforced Concrete Connections, Reno, Nevada, April 1985  
Computer-Aided Seismic Analysis of Highway Bridges, Reno, Nevada, April 1993  
Seismic Analysis and Design of Highway Bridges, Cairo, Egypt, January 1996  
Seismic Design of Highway Bridges, Reno, Nevada, April 1996

### **Short Courses Attended**

CADAM, A Computer-Aided Design System, Reno, Nevada, April 1984 (5 days)  
Bridge Inspection, Evaluation, & Rehabilitation, Boston Massachusetts, July 1989 (3 days)  
Fostering Critical Thinking, Reno, Nevada, March 2002.

### **Invited Workshop Participation**

National Workshop to Review Earthquake Engineering Research Needs for Bridges, Reno, Nevada, April 1984

Joint U.S./New Zealand Workshop on Evaluation of Research Needs in Seismic Aspects of Bridges, San Diego, California, May 1985

Third Joint U.S./Japan Workshop on Performance and Strengthening of Bridge Structures, Tsukuba, Japan, May 1987

Fourth Joint U.S./Japan Workshop on Bridge Engineering, San Diego, California, May 1988

National Science Foundation Forum for Innovative Bridge Research (FIBR), Washington, D.C., October 1991

National Science Foundation Bridge Strengthening and Rehabilitation Workshop, Des Moines, Iowa, April 1993

National Science Foundation Earthquake Engineering and Earthquake-Related Earth Science Research in the Next Decade, June 1993

International Workshop on Civil Infrastructural Systems, Taipei, Taiwan, January 1994.

Second U.S./Japan Workshop on Seismic Retrofit of Bridges, San Francisco, California, January 1994

Tenth Joint U.S./Japan Workshop on Bridge Engineering, Lake Tahoe, Nevada, May 1994

U.S. delegation of 13 members to visit and present papers in Hungary, Slovak Republic, Czech Republic, and Poland, June 1994

U.S. delegation of 5 members to visit and present papers in Hungary, Romania, and Moldova, September 1994 (delegation leader)

U.S./China Workshop on Joint Research in Earthquake Engineering, San Francisco, California, August 1995

U.S. delegation of 7 members to meet with researchers and administrators in Poland and the Czech Republic, October 1995

U.S./Central Europe Workshop on “Civil Infrastructure Systems For The Next Century: a Global Partnership in Research,” Cracow, Poland, October 1996 (Workshop Director)

International Workshop on Seismic Design Methodologies for the Next Generation of Codes, Bled, Slovenia, June 1997

U.S./China Workshop on Joint Research in Earthquake Engineering, San Jose, California, October 1997

U.S./Japan Workshop on Smart Materials and New Technologies for Improvement of Seismic Performance of Urban Structures, Disaster Prevention Research Institute, Kyoto University, February 1999

NSF-NEES Grid Workshop, Los Angeles, California, November 2000

First Annual Minority Graduate Education Faculty Mentoring Institute, Phoenix, Arizona, January 2001

US/UK/EU Meeting to Develop Research Topics on Civil Infrastructure Systems, London, England, July 2001

Workshop on Strong Motion Instrumentation of Buildings, Consortium of Organizations for Strong-Motion Observation Systems, Emeryville, California, November 2001

FHWA Expert Panel on Guidelines for Seismic Performance Testing of Bridge Piers, San Francisco, California, August 2002

First US-China Workshop on Seismic Analysis and Design of Special Bridges, Shanghai, China, October 2002

NSF-FHWA US-Japan Workshop on Advancing the State-of-the-Art and Practice of the Engineering and Management of Highway Infrastructure, Tokyo, Japan, November 2003.

NSF-FHWA US-Japan Meeting on Evaluating Bridge Reliability Following Natural and Man-Made Hazards in Real-Time, Kyoto, Japan, October 2004.

North-American Euro-Pacifica Workshop on Sensing Issues in Civil Structural Health Monitoring, Honolulu, Hawaii, November 2004.

US Japan Workshop on Collaboration on Earthquake Engineering of Bridges Using NEES/E-Defense, San Francisco, California, February 2005.

First US-Portugal International Workshop: Grand Challenges in Earthquake Engineering 250 years after the 1755 Lisbon Earthquake, July 2005.

Fourth Planning Meeting for NEES/E-Defense Collaboration, E-Defense, Kobe-Miki, Japan, August 2005.

Research Development Workshop for FY 2006/07, California Department of Transportation, Sacramento, California, August 2005.

Fifth Planning Meeting for NEES/E-Defense Collaboration, E-Defense, San Francisco, California, December 2005.

Second US-Taiwan Bridge Engineering Workshop, San Francisco, California, September 2006.

Planning Meeting for NEES/E-Defense Collaboration on Bridge Model Testing, Kobe, Japan, September 2007.

2007 FHWA Seismic Accelerated Bridge Construction Workshop, San Diego, California, October 2007.

NSF International Workshop on Performance-Based Infrastructure Asset Management, Istanbul/Ankara, Turkey, July 2008.

24<sup>th</sup> US-Japan Workshop on Bridge Engineering, Minneapolis, Minneapolis, September 2008.

**Other Activities:**

Member of EERI Reconnaissance Team to investigate the bridge damage from the August 1993 earthquake in Guam, USA

Member of the editorial board for the International Journal of Engineering Structures Review, 1995-97

Officer in ASCE Truckee Meadows Branch, May 1986 - September 1989 (President, 1988-89)

Officer in ASCE Nevada Section, September 1995-2000 (President, 1998-99)

Presented a nontechnical seminar entitled "What Earthquakes Do to Buildings" at the following:

- (i) Reno Host Lion's Club, October 1987
- (ii) Sierra Nevada Chapter of Chartered Property Casualty Underwriters, Reno, April 1988
- (iii) Associated General Contractors Annual Conference, Reno, February 1990
- (iv) Nevada Earthquake Awareness Week, University of Nevada, Reno, April 1990

Discussion Leader on the topic of "Civil Engineering Education; Where Should We Be Going?" ASCE Zone 4 Management Conference, Phoenix, February 1988

Served as a member of Nevada Public Works Consultant Selection Committee for a \$10,000,000 engineering laboratory project, 1988

Served as a member of City of Reno Consultant Selection Committee for a \$150,000,000 waste water treatment project, 1989

Was interviewed on earthquake engineering and safety in "High Desert Forum," a one-hour KUNR public radio talk show, February 2004

**Member of Scientific/Advisory Committees for the following conferences:**

Fourth International Conference on Safety of Bridge Structures, Wroclaw, Poland, September 1992

NSF Symposium on Practical Solutions for Bridge Strengthening and Rehabilitation, Des Moines, Iowa, April 1993

NSF First International Conference on Composites in Infrastructure held in Tucson, Arizona, January 1996

NSF Workshop on Structural Reliability, Boulder, Colorado, October 1996

Scientific Board for the 4th International Conference on Civil Engineering, Iran, May 1997

Editorial Board for the International Conference on Innovations in Civil/Structural Engineering, England, August 1997

Editorial Board for the “Advances in Earthquake Engineering” series, Computational Mechanics Publications, Southampton, England, 1997

Nevada Science and Technology Symposium, Las Vegas, Nevada, January 2000

Scientific Committee for the International Symposium on Modern Concrete Composites & Infrastructure, Beijing, China, November-December 2000

Technical Committee for the Seventh US National Conference on Earthquake Engineering, Boston, Massachusetts, July 2002

ACI Ad-hoc Innovation Committee to Review Steel-Free Decks, 2000

ACI-TAC (Technical Activities Committee) External Review Member, 2001

International Scientific Advisory Committee for the 4th International Conference on Seismology and Earthquake Engineering Structures (SEE-4), Tehran, Iran, May 2003

International Scientific Advisory Committee for the 4th International Conference on Earthquake Resistant Engineering Structures, Ancona, Italy, September 2003

Scientific Committee for the 2<sup>nd</sup> International Conference on Bridge Maintenance, Safety, and Management, Kyoto, Japan, October 2004

International Scientific & Engineering Committee for the North American Euro Pacific Workshop for Sensing Issues in Civil Structural Health Monitoring, Oahu, Hawaii, November 2004

International Scientific Advisory Committee for the 5th International Conference on Earthquake Resistant Engineering Structures, Skiathos, Greece, May-June 2005

Editorial Board, Tenth International Conference on Civil, Structural, and Environmental Engineering Computing, Rome, Italy, August-September 2005

Steering Committee, Civil Engineering Infrastructure Systems, An International Conference, Beirut, Lebanon, June 2006

Scientific Committee for the 3rd International Conference on Bridge Maintenance, Safety, and Management, Porto, Portugal, July 2006

International Scientific Committee for the 3rd International Conference on FRP Composites in Civil Engineering, Miami, Florida, December 2006

Planning Committee for the AACU Network for Academic Renewal Conference- The Student as Scholar: Undergraduate Research and Creative Practice, Long Beach, California, April 2007

Planning Committee for the 4<sup>th</sup> International Workshop on Structural Concrete in the Americas, Atlanta, Georgia, April 2007

International Scientific Committee for the 5th International Conference on Seismology and Earthquake Engineering (SEE-5), Tehran, Iran, May 2007

International Scientific Advisory Committee for the 6th International Conference on Earthquake Resistant Engineering Structures, Bologna, Italy, June 2007

International Scientific Advisory Committee for the 10th Pan-American Conference on Applied Mechanics Cancun, Mexico, January 2008

Scientific Committee, The 3<sup>rd</sup> International Conference on Bridges, Tehran, Iran, May 2008.

Scientific Committee for the 4th International Conference on Bridge Maintenance, Safety, and Management, Seoul, S. Korea, July 2008

Planning Committee for the 5<sup>th</sup> International Workshop on Structural Concrete in the Americas, St. Louis, Missouri, October 2008

Scientific Board for Special Symposium “Modeling of Structures,” in Honor of Opening New Engineering College in Mostar, Bosnia-Herzegovina, November 2008

International Scientific Advisory Committee for the 7th International Conference on Earthquake Resistant Engineering Structures, Cypress, June 2009

International Scientific and Technical Committee for the International Conference in Structural Engineering and Construction (ISEC), Las Vegas, NV, September 2009

## Research Grants Received:

University of Nevada Research Advisory Board, \$1525, "Simple Earthquake Analysis of R/C Structures," PI: Saiidi, December 1979.

National Science Foundation, \$44,745, "Simple Earthquake Analysis of Multistory Reinforced Concrete Structures," PI: Saiidi, July 1980.

National Science Foundation, \$177,125, "Maximum Amplitude Nondestructive Dynamic Testing of a Highway Bridge and Implications for Seismic Design," PI: Douglas, CoPI: Saiidi, January 1982.

National Science Foundation, \$45,616, "Field Study of Concrete Form Loads and Pressures," PI: Douglas, CoPI: Saiidi, January 1982.

National Science Foundation, \$93,542, "Strengthening of Flexural Members through the Use of Epoxy Bonded Overlays Under Static and Repeated Loads," PI: Saiidi, CoPI: Douglas, July 1984.

National Science Foundation, \$415,185, "Large-Amplitude Field Response Studies of Highway Bridges Subjected to Static and Dynamic Loading," PI: Douglas, CoPI: Saiidi, July 1984.

National Science Foundation, \$37,428, "Microcomputer Applications in Seismic Design of Regular Highway Bridges," PI: Saiidi, CoPI: Douglas, August 1984.

National Science Foundation, \$147,425, "Age Effects in Elastomeric Bridge Bearing Pads," PI: Douglas, CoPIs: Saiidi, Epps, August 1985.

National Science Foundation, \$25,707, "Data Acquisition Equipment for Laboratory Testing of Bridge Components," PI: Saiidi, July 1985.

National Science Foundation, \$129,290, "An Experimental Study of R/C Pinned Bridge Piers Subjected to Combined Axial Force, Shear, and Flexure," PI: Saiidi, CoPI: Douglas, June 1987.

Sierra Pacific Power Company, \$23,398, "Wind and Ice Loading Maps for SPPC's Service Area in Northern Nevada and Eastern California," PI: Saiidi, CoPI: Maragakis, June 1987.

Nevada Department of Transportation, \$45,955 "A Study of Prestress Losses in Highway Bridges in Nevada," PI: Saiidi, August 1987.

California Department of Transportation and National Science Foundation, \$374,000, "Assessment of Bridge Seismic Design and Instrumentation Requirements Using Full-

scale Testing and Dynamic Analysis of the Meloland Road Overpass," PI: Douglas, CoPI: Saiidi, February 1988.

National Science Foundation, \$30,000, "Analysis of the Response of Reinforced Concrete Buildings During the 1987 Whittier Earthquake," PI: Maragakis, CoPI: Saiidi, February 1988.

National Science Foundation, \$29,948, "Non-Destructive Evaluation of Prestress Forces in An Actual Bridge," PI: Saiidi, CoPI: Douglas, November 1988.

Department of Energy through the University of Nevada, Las Vegas, \$53,105, "Survey and Evaluation of Nevada's Transportation Infrastructure -Task 7.2: Highway Bridges," PI: Saiidi, CoPI: Maragakis, March 1989.

Nevada Department of Transportation, \$51,578, "Review and Evaluation of Bridge Deck Repair Techniques," PI: Saiidi, January 1990.

National Science Foundation, \$60,735, "Second Workshop on Bridge Engineering Research in Progress," PI: Douglas, CoPI: Saiidi, January 1990.

National Science Foundation, Nevada Department of Transportation, \$78,740 [\$73,740 (NSF) and \$5,000 (NDOT)], "Evaluation of Seismic Retrofitting on the Earthquake Response of Highway Bridges," PI: Maragakis, CoPI: Saiidi, February 1990.

National Science Foundation, \$1,300, "Travel to Poland - Planning of Cooperative U.S.-Poland Joint Research on Bridge Evaluation," PI: Saiidi, April 1990.

Center for Infrastructure Studies, \$60,259, "Application of Fiber Optical Sensors in Monitoring and Evaluation of Reinforced Concrete Bridges," PI: Saiidi, CoPIs: Rawat, Sanders, Griffiths, June 1990.

Center for Infrastructure Studies, \$94,633, "Seismic Resistance Survey of Highway Bridges in the State of Nevada," PI: Douglas, CoPIs: Saiidi, Maragakis, Sanders, May 1990.

Center for Infrastructure Studies, \$19,857, "Analysis and Application of Bridge Base Isolation Systems," PI: Maragakis, CoPIs: Douglas, Saiidi, May 1990.

Center for Infrastructure Studies, \$66,941, "Application of Advanced Composites in Repair and Retrofitting of Reinforced Concrete Bridges," PI: Saiidi, CoPI: Gordaninejad, May 1990.

California Department of Transportation, \$91,328, "A Comprehensive Evaluation of the Performance of Bridge Cable Restrainers During the Loma Prieta Earthquake," Joint PIs: Saiidi/Maragakis, August 1990.

Center for Infrastructure Studies, \$1,820, "The Development of A Course on Introduction to Infrastructure Studies," PI: Saiidi, October 1990.

Nevada Department of Transportation, \$49,772, "A Study of Prestress Losses in A Box Girder Bridge in Southern Nevada," PI: Saiidi, June 1991.

Center for Infrastructure Studies, \$34,103, "Retrofitting Techniques for Damaged Prestressed Concrete Box Girders," PI: Saiidi, CoPI: Douglas, September 1991.

Center for Infrastructure Studies, \$45,540, "Survey and Evaluation of Nevada's Highway Bridges" PI: Saiidi, September 1991.

Center for Infrastructure Studies, \$27,070, "Combined Active and Passive Control of Structures with Smart Materials and Advanced Composites," PI: Gordaninejad, Co-PI: Saiidi, September 1991.

UNR International Activities Programs, \$2,200, Study Reinforced Bridge Durability in Collaboration with A Scientist from Poland and visit Poland, PI: Saiidi, December 1991.

Center for Infrastructure Studies, \$69,816, "Nuclear Spent Fuel Transportation; Economic Impact on Highway Bridges in Nevada," Co-PIs: Maragakis, Saiidi, and Sanders, November 1992.

National Science Foundation, \$244,173 (including \$38,500 matching funds from the University of Nevada), "Evaluation and Damage Repair of 23-year Old Prestressed Bridge Box Girders," PI: Saiidi, CoPI: Douglas, December 1992.

Nevada Department of Transportation, \$40,000, "Seismic Damage Potential Analysis of Bridges in Northern Nevada," PI: Saiidi, CoPI: Maragakis, May 1993.

National Center for Earthquake Engineering Research, \$156,559, "Capacity Detailing of Columns, Walls, and Piers for Ductility and Shear," PI: Saiidi, CoPIs: Sanders and Douglas, July 1993.

Nevada Department of Transportation, \$225,893, "Development and Testing of Seismic Retrofit Details for Bridges in Northern Nevada," PI: Saiidi, CoPIs: Sanders and Douglas, August 1993.

Nevada Department of Transportation, \$68,825, "A Study of Prestress Losses in Four Bridges in Northern Nevada," PI: Saiidi, November 1993.

National Science Foundation and the State of Nevada, \$762,418, "Bridge Engineering Cluster; EPSCoR," PIs: Douglas and Saiidi, February 1994.

National Science Foundation, \$25,000, "NSF Research Grantees Workshop for Earthquake Hazard Mitigation Programs," PI: Saiidi, CoPI: Maragakis, June 1994.

National Center for Earthquake Engineering Research, \$12,000, "United States-Eastern Europe-former Soviet Republics Workshops of 1994," PI: Saiidi, August 1994.

National Science Foundation, \$262,981 including \$60,000 matching funds from the University of Nevada, "An Active Damper System for Hybrid Control of Bridges under Earthquakes," PI: Gordaninejad, CoPIs: Chang, and Saiidi, September 1994.

Nevada Department of Transportation, \$38,184, "A Review of Flared Bridge Columns in the State of Nevada and Design Recommendations," PI: Saiidi, January 1995.

Nevada Department of Transportation, \$88,511, "In-Situ Stiffness and Damping of Spread Footings and Pile Foundations in Bridges in Northern Nevada," PI: Saiidi, CoPIs: Maragakis and Norris, January 1995.

National Science Foundation, University of Puerto Rico EPSCOR, \$95,000, "Patterns of Inelastic Deformation in the Joints of R/C Frames Subjected to Strong Earthquakes," Joint project with the University of Puerto Rico, PI: Lopez, Co-PI: Saiidi, March 1995.

Concrete Reinforcing Steel Institute, California, \$2,500, "Reinforced Concrete Teaching Enhancement," PI: Saiidi, August 1995.

National Center for Earthquake Engineering Research, \$185,000, "Evaluation of the Seismic Response of Reinforced Concrete Bridge Pier Walls," PI: Saiidi, CoPIs: Sanders and Douglas, December 1995.

National Center for Earthquake Engineering Research, \$101,116, "An Evaluation and Refinement of Longitudinal Bridge Restrainer Design Method in AASHTO," PI: Saiidi, CoPI: Maragakis, December 1995.

US-Slovene Science and Technology Joint Fund, \$60,000, "Seismic Analysis and Damage Assessment of RC Bridges," Slovenian PI: Fischinger; US PI: Saiidi, January 1996.

National Science Foundation, \$10,000, "Evaluation and Damage Repair of 23-year Old Prestressed Bridge Box Girders, Supplemental Funds for Research Experience for Undergraduates" PI: Saiidi, CoPI: Douglas, February 1996.

National Science Foundation, \$39,726, "US-Central Europe Workshop on Civil/Infrastructure Research for the Next Century," PI: Saiidi, July 1996.

Nevada Department of Transportation, \$128,107, "Proof-testing and Seismic Retrofit of Flared Bridge Columns in the Airport Viaduct in Reno," PI: Saiidi, Co-PI: Sanders, July 1996.

National Science Foundation, \$500,000, "An Enhanced Bridge Engineering Cluster at the University of Nevada, Reno," PIs: Douglas and Saiidi, July 1996.

Concrete Reinforcing Steel Institute, California, \$3,000, "Reinforced Concrete Teaching Enhancement Grant," PI: Saiidi, August 1996.

National Science Foundation, \$378,150, "Bridge Research and Information Center" PI: Maragakis, Co-PI: Saiidi, September 1996.

National Science Foundation, \$150,383, "Strength Evaluation and Retrofitting of RC Pinned Bridge Pier/Footing Connections" PI: Sanders; Co-PI: Saiidi, March 1997.

California Department of Transportation, \$276,205, "Shake-Table Testing of Old Retrofitted and New RC Bridge Columns," PI: Sanders; Co-PIs: Douglas and Saiidi, April 1997.

Nevada Department of Transportation, \$81,489, "Shake Table Testing of Retrofitted Flared Bridge Columns," PI: Saiidi, Co-PI: Sanders, July 1997.

National Science Foundation, \$28,417, "Evaluation of Innovative Configurations for Box Girder Bridges Under Lateral Loads," PI: Saiidi, CoPI: Itani, August 1997.

National Center for Earthquake Engineering Research, \$2,500, "Travel Grant to Visit China," PI: Saiidi, August 1997.

California Department of Transportation, \$402,977, "Shake Table Studies of Two-Column As-Built and Retrofitted RC Bridge Piers with Rectangular Columns," PI: Saiidi, Co-PI's: Sanders, Itani, and Douglas, January 1998.

California Department of Transportation, \$452,781, "Shake Table Studies of Seismically Vulnerable RC Box Girder Bridge Bents," PI: Sanders, Co-PI's: Douglas and Saiidi, January 1998.

Multi-Disciplinary Center for Earthquake Engineering Research, \$99,978, "Shake Table Testing of Hinge Restrainers," PI: Maragakis, Co-PI: Saiidi, January 1998.

California Department of Transportation, \$209,755, "Experimental Studies on the Seismic Response of Hinge Restrainers," PI: Maragakis, Co-PI: Saiidi, January 1998.

Nevada Department of Transportation, \$100,226, "Shake Table Studies of Flared Bridge Columns Retrofitted with Fibrous Composites," PI: Saiidi, Co-PIs: Sanders and Gordaninejad, May 1998.

National Science Foundation, \$181,707, "Innovative Graphite/Epoxy Sections in Bridge Construction: Monotonic and Fatigue Behavior," PIs: Saiidi and Gordaninejad, June 1998.

Nevada Department of Transportation, \$16,187, "Evaluation of Confinement Steel Requirements for RC Bridge Columns and Development of Code Commentary," PI: Saiidi, Co-PI: Wehbe, November 1998.

Nevada Department of Transportation, \$10,712, "Review of Seismic Retrofit Design for Bridges at I-80/US-395 Interchange," PI: Saiidi, February 1999.

Nevada Department of Transportation, \$178,715, "Creep and Shrinkage Prestress Losses in Nevada Aggregates," PI: Saiidi, Co-PI: Ladkany, UNLV, April 1999.

Chinese National Science Foundation, \$30,000, "Substructure Performance under Earthquake Loading," PI: Yang, N. Jiaotong Univ., Beijing; US-Counterpart: Saiidi, April 1999.

Nevada Department of Transportation, \$58,483, "Seismic Performance of Bridge Bents with Unretrofitted Footings," PI: Saiidi, July 1999.

Nevada Department of Transportation, \$77,298, "Cracking in Newly Placed Concrete Deck Slabs," PI: Sanders, Co-PI: Saiidi, July 1999.

John Martin and Associates, \$56,496, "Seismic Evaluation of Steel Joints in UCLA Hospital," PIs: Saiidi and Itani, September 1999.

California Department of Transportation, \$283,946, "Shake Table Testing of Flared Columns," PI: Sanders, Co-PI: Saiidi, September 1999.

Multi-Disciplinary Center for Earthquake Engineering Research, \$34,955 "Experimental Facilities Network," PI: Maragakis, Co-PI: Saiidi, September 1999.

National Science Foundation (through Washington University), \$12,000, "Instructional Shake Table," UNR-PI: Saiidi, October 1999.

Federal Highway Administration/Nevada Department of Transportation/Applied Research Initiative, \$55,962, "Seismic Retrofit of Flared Bridge Columns with Fixed Base," PI: Saiidi, January 2000.

Ever-Level Foundation System, \$51,394, "Shake Table Testing of A Two-Story Wood Frame on Ever-Level Foundation System," PI: Saiidi, Co-PI's: Itani and Buckle, May 2000.

Multi-Disciplinary Center for Earthquake Engineering Research, \$31,963 "Experimental Facilities Network," PI: Maragakis, Co-PI: Saiidi, October 2000.

California Department of Transportation, \$283,904, "Shake Table Studies of RC Columns with Interlocking Spirals," PI: Saiidi; Co-PI: Sanders, January 2001.

Nevada Department of Transportation, \$450,600 (including \$60,000 cash match and \$37,732 overhead waiver match from UNLV and UNR), "Seismic Evaluation and Retrofit of Las Vegas Downtown Viaduct," PI: Saiidi, Co-PIs: Itani and Ladkany, UNLV, January 2001.

National Science Foundation, \$4,683,457, "Development of A Biaxial Multiple Shake Table Research Facility," PI: Buckle, Co-PIs: Saiidi, Maragakis, Sanders, and Itani, January 2001.

Slovenian Research Foundation, \$15,000, "Innovative Methods for Seismic Protection of Bridges," PI: Fischinger, University of Ljubljana, Slovenia; US Collaborator: Saiidi, March 2001.

Western Alliance to Expand Student Opportunities, \$ 1,378, "Earthquake Engineering of Bridges," Research Experience for A Minority Student, PI: Saiidi, January 2001.

Nevada Department of Transportation, \$39,974, "Filling of Structural Tubes in the Galena Arch," PI: Sanders, Co-PI: Saiidi, May 2001.

California Department of Transportation, \$46,636, "Effect of Loading History on Shake Table Performance of Bridge Bents with In-fill Wall Retrofit," PI: Saiidi, July 2002.

California Department of Transportation, \$42,135, "Experimental Studies on the Seismic Performance of Bridge Restrainers at Intermediate Hinges, Phase II: A Pilot study using Shape Memory Alloy (SMA) Restrainers," PI: Maragakis, Co-PIs Saiidi and DesRoches, July 2002.

California Department of Transportation, \$79,792, "Seismic Response of Flared Column Bents," PI: Sanders, Co-PI: Saiidi, July 2002.

National Science Foundation- University of Illinois at Urbana-Champaign, \$1,850, "Travel Grant to Attend ANCER Conferences in China and Hong Kong," PI: Saiidi, August 2002.

Nevada Department of Transportation/Federal Highway Administration, \$197,526, "Performance, Design, and Detailing of Two-Way Column Hinges," PI: Saiidi, Co-PI: Sanders, January 2003

State of Nevada Applied Research Initiative, \$50,000, "Innovative Reinforcement to Reduce Earthquake Damage in Concrete Bridge Column Plastic Hinges," PI: Saiidi, January 2003.

Multi-Disciplinary Center for Earthquake Engineering Research, \$2,000, "Travel Grant to Present Seminars in China," PI: Saiidi, March 2003.

National Cooperative Highway Research Program IDEA (Innovations Deserving Exploratory Analysis), \$97,685, including \$20,690 match, "Fiber-Reinforced Plastics for Seismic Bridge Restrainers," PI: Saiidi, Co-PI: Maragakis, August 2003.

National Science Foundation, \$277,450, "Collaborative Research: Demonstration of NEES for Studying Soil-Foundation-Structure Interaction," PI: Saiidi, Co-PI: Sanders, September 2003.

Federal Highway Administration, \$100,000, "Feasibility of Bridge Design for Near-Fault Ground Motions," PI: Saiidi, Co-PI: Anderson, September 2003.

Nevada Department of Transportation, \$15,000, "Seismic Retrofit of Bridge Hinges with FRP Restrainers," PI: Saiidi, Co-PI: Maragakis, October 2003.

California Department of Transportation, \$59,939, "Seismic Response of Flared Columns with Vertical and Horizontal Gaps," PI: Sanders, Co-PI: Saiidi, April 2004.

California Department of Transportation, \$372,955, "Bridge Seismic Analysis Procedure to Address Near-Fault Effects," PI: Saiidi, Co-PI: Somerville, June 2004.

National Science Foundation, \$34,995, "US-Turkey Workshop on Seismic Retrofit and Post-Earthquake Evaluation of Highway Bridges," PI: Saiidi, June 2004.

National Science Foundation, \$2,000,000, "NEESR-SG- Seismic Performance of Bridge Systems with Conventional and Innovative Design," PI: Saiidi, Co-PIs: El-Gamal, University of California, San Diego; Fenves, University of California, Berkeley; Buckle; Mirmiran, Florida International University, November 2004.

National Science Foundation, \$6,000, "REU Supplement for NEESR-SG- Seismic Performance of Bridge Systems with Conventional and Innovative Design," PI: Saiidi, June 2005.

National Cooperative Highway Research Program IDEA (Innovations Deserving Exploratory Analysis), \$77,861, "Seismic Response of Bridge Columns With Engineered

Cementitious Composites and Shape Memory Alloys in Plastic Hinge Zone,” PI: Zadeh, Co-PI: Saiidi, June 2005.

National Science Foundation, Experimental Program to Stimulate Competitive Research (EPSCoR) and the State of Nevada, \$1,500,000, “Research Infrastructure for Nevada’s Growth- Targeting Research with Uniqueness and Excellence- Focal Area: Undergraduate Research,” Focal Area Leader: Saiidi, August 2005.

California Department of Transportation, \$265,386, “Development of Improved Column Pin Connection Details and Design Procedures,” PI: Saiidi, November 2005.

National Science Foundation, \$23,660, “NEES-IT Supplement for NEES Demonstration Project- Collaborative Research: Demonstration of NEES for Studying Soil-Foundation-Structure Interaction,” PI: Saiidi, May 2006.

National Science Foundation, \$6,000, “REU Supplement for NEESR-SG- Seismic Performance of Bridge Systems with Conventional and Innovative Design,” PI: Saiidi, August 2006.

California Department of Transportation, \$251,070, “Emergency Repair of Damaged Bridge Columns Using Fiber Reinforced Polymer (FRP) Materials,” PI: Saiidi, October 2006.

National Science Foundation, \$55,000, “FHWA/NSF Workshop on Future Directions for Long-Term Bridge Performance Monitoring, Assessment, and Management,” PI: Saiidi, February 2007.

National Science Foundation, \$23,270, “Joint US-Slovenia Study of Simple Modeling of Bridge Seismic Response,” PI: Saiidi, May 2007.

California Department of Transportation, \$300,000, “Precast Bridge Columns with Energy Dissipating Joints,” PI: Saiidi, Co-PI: Sanders, June 2007.

Federal Highway Administration, \$195,500, “Seismic Response of Near-Fault Bridges,” PI: Saiidi, September 2007.

National Science Foundation, \$6,000, “REU Supplement for NEESR-SG- Seismic Performance of Bridge Systems with Conventional and Innovative Design,” PI: Saiidi, November 2007.

Federal Highway Administration, \$110,700, “Seismic Response of Near-Fault Bridges,” PI: Saiidi, May 2008.

National Science Foundation, Experimental Program to Stimulate Competitive Research (EPSCoR) and the State of Nevada, \$1,570,000, “Nevada Infrastructure for Climate Change Science, Education, and Outreach - Focal Area: Undergraduate Research,” Focal Area Leader: Saiidi, August 2008.

## **Publications**

### **Books:**

1. Douglas, B. and M. Saiidi, Editors, Second Workshop on Bridge Engineering Research in Progress, Proceedings, Sponsored by the National Science Foundation, Reno, Nevada, October 1990, 311 pp.
2. Saiidi, M., Editor, Cast-in-Place Concrete in Tall Building Design and Construction, Council on Tall Buildings and Urban Habitat, McGraw-Hill Book Co., January 1992, 402 pp.
3. Saiidi, M., Chapter 9, "Connections", in Cast-in-Place Concrete in Tall Building Design and Construction, Council on Tall Buildings and Urban Habitat, McGraw-Hill Book Co., January 1992, pp. 315-326.
4. Saiidi, M., and E. Maragakis, Editors, Natural Hazard Mitigation Grantees Workshop, Proceedings, Sponsored by the National Science Foundation, Lake Tahoe, Nevada, April 1995, 145 pp.
5. Saiidi, M., A.M. Brandt, and T. Cyrul, Editors, Civil Infrastructure Systems for the Next Century: A Global Partnership in Research, Proceedings, Sponsored by the US National Science Foundation and the Polish Academy of Sciences, Cracow, Poland, October 1996, pp. 253.
6. Saiidi, M., H. Ghasemi, and A. Tiras, Second US-Turkey Seismic Design and Retrofit of Highway Bridges, Proceedings, Sponsored by the US National Science Foundation, the Turkish General Directorate of Highways, and the US Federal Highway Administration, Ankara & Istanbul, Turkey, September 2004, pp. 230.

### **Journal and other Refereed Publications:**

1. Saiidi, M. and M.A. Sozen, "Simple Nonlinear Seismic Analysis of RC Structures," Journal of the Structural Division ASCE, Vol. 107, No. ST5, May 1981, pp. 937-952.
2. Douglas, B., M. Saiidi, G. Holcomb, and R. Hayes, "Field Measurements of Lateral Pressures on Concrete Wall Forms," ACI Concrete International, Design and Construction, November 1981, pp. 56-62.
3. Saiidi, M., "Seismic Study of Imperial County Services Building," Proceedings of the 2nd ASCE-EMD Structural Dynamics Specialty Conference, Atlanta, GA, January 1981, pp. 431-444.
4. Saiidi, M., "Hysteresis Models for Reinforced Concrete," Journal of the Structural Division, ASCE, Vol. 108, No. ST5, May 1982, pp. 1077-1085.

5. Saiidi, M. and K.E. Hodson, "Earthquake Response of Irregular R/C Structures in the Nonlinear Range," Journal of Computers and Structures, Vol. 16, No. 1-4, 1983, pp. 519-529.
6. Saiidi, M., "Microcomputers Show Potential," ACI Concrete International, Design and Construction, Vol. 6, No. 3, March 1984, pp. 31-34.
7. Saiidi, M. and B. Douglas, "Effect of Design Seismic Loads on a Highway Bridge," Journal of Structural Engineering, ASCE, Vol. 110, No. 11, November 1984, pp. 2723-2735.
8. Saiidi, M. and J.D. Hart, "Influence of Concrete and Steel Properties on Calculated Inelastic Seismic Response of R/C Frames," ACI Journal, Vol. 82, No. 2, March-April 1985, pp. 170-179.
9. Hodson, K.E. and M. Saiidi, "Effect of Wall Stiffness and Height on Nonlinear Earthquake Response of R/C Frame-Wall Structures," Advances in Tall Buildings Council on Tall Buildings and Urban Habitat, Van Nostrand Reinhold Company, 1986, pp. 451-460.
10. Saiidi, M. "Constructability of Reinforced Concrete Joints," ACI Publication SCM-14(86), Section VI, San Francisco, California, March 1986, 17 pp.
11. Saiidi, M., J. Hart, and B. Douglas, "A Nonlinear Model for Static and Dynamic Transverse Load Analysis of Reinforced Concrete Highway Bridges," Journal of Computers and Structures, Vol. 26, No. 5, 1987, pp. 831- 840.
12. Saiidi, M., J. Orie, and B. Douglas, "Lateral Load Response of R/C Bridge Columns With a One-Way Pinned End," ACI Structural Journal, Vol. 85, No. 6, November-December 1988, pp. 609-616.
13. Saiidi, M., G. Ghusn, and Y. Jiang, "Five-Spring Element for Biaxially Bent R/C Columns," Journal of Structural Engineering, ASCE, Vol. 115, No. 2, February 1989, pp. 398-416.
14. Maragakis, E., G. Thornton, M. Saiidi, and R. Siddharthan, "A Simple Nonlinear Model for the Investigation of the Impact between the Bridge Deck and the Abutments during Earthquakes," International Journal of Earthquake Engineering and Structural Dynamics, Vol. 18, No. 8, November 1989, pp. 1163-1178.
15. Jiang, Y. and M. Saiidi, "4-Spring Element for Cyclic Response of R/C Columns," Journal of Structural Engineering, ASCE, Vol. 116, No. 4, April 1990, pp. 1018-1029.
16. Saiidi, M., S. Vrontinos, and B. Douglas, "A Model for the Response of R/C Beams Strengthened by Concrete Overlays," ACI Structural Journal, Vol. 87, No. 6, November-December 1990, pp. 687-695.

17. Saiidi, M., D. Orie, D. O'Connor, and P. Ferrari, "Dynamic Stability of a Vending Machine," Forensic Engineering, The International Journal, Vol. 2, No. 4, 1990, pp. 415-423.
18. Saiidi, M., J. Shields, and R. Johnson, "Monitoring Prestress Forces in A Box Girder Bridge," NATO ASI Series E: Applied Sciences - Vol. 187, Kluwer Academic Publishers, April-May 1990, pp. 217-228.
19. Saiidi, M., E. Maragakis, and Y. Jiang, "An Approach to Evaluate the Sufficiency of Highway Bridges for Nuclear Spent Fuel Transportation," 1991 International High-Level Radioactive Waste Management Conference, Las Vegas, Nevada, April-May 1991, pp. 641-646.
20. Saiidi, M. and D. Orie, "Earthquake Design Forces in Regular Highway Bridges," Journal of Computers and Structures, Vol. 44, No. 5, 1992, pp 1047-1054.
21. Douglas, B., M. Blakely, M. Saiidi, E. Maragakis, "The New Bridge Testing Laboratory at the University of Nevada, Reno," ACI Concrete International, Vol. 14, No. 12, December 1992, pp. 61-63.
22. Saiidi, M., "Current Bridge Seismic Retrofit Practice in the United States," ACI Concrete International, Vol. 14, No. 12, December 1992, pp. 64-67.
23. O'Connor, D. and M. Saiidi, "Compatibility of Polyester-Styrene Polymer Overlays with Portland Cement Concrete Bridge Decks," American Concrete Institute, Materials Journal, Vol. 90, No. 1, January-February 1993, pp. 59-68.
24. Maragakis, E., M. Saiidi, and A. Abdel-Ghaffar, "Response of R/C Buildings during the 1987 Whittier Narrows Earthquake," Earthquake Spectra, Journal of Earthquake Engineering Research Institute, Vol. 9, Number 1, February 1993, pp. 67-96.
25. Saiidi, M. and D. Straw, "Monotonic and Cyclic Response of One-Way R/C Bridge Pier Hinges in the Strong Direction," American Concrete Institute, Structural Engineering Journal, Vol. 90, No. 5, September-October 1993, pp. 568-573.
26. O'Connor, D. and M. Saiidi, "Polyester Concrete for Bridge Deck Overlays," ACI Concrete International, Vol. 15, No. 12, December 1993, pp. 36-39.
27. Gordaninejad, F., M. Saiidi, and N. Wehbe, "Behavior of Adhesively Bonded Concrete-Graphite/Epoxy Composite Bridge Girders," Journal of Advanced Materials, Society for the Advancement of Material and Process Engineering, January 1994, pp. 47-53.
28. Saiidi, M., B. Douglas, and S. Feng, "Prestress Force Effect on Vibration Frequency of Concrete Bridges," Journal of Structural Engineering, ASCE, Vol. 120, NO. 7, July 1994, pp. 2233-2241.

29. Saiidi, M., F. Gordaninejad, and N. Wehbe, "Behavior of Graphite/Epoxy Concrete Beams," Journal of Structural Engineering, ASCE, Vol. 120, No. 10, October 1994, pp. 2958-2976.
30. Jiang, Y. and M. Saiidi, "Response and Design of R/C One-Way Bridge Pier Hinges in the Strong Direction," Journal of Structural Engineering, ASCE, Vol. 121, No. 8, August 1995, pp. 1236-1245.
31. Saiidi, M., and E. Maragakis, "Effectiveness of Hinge Restrainers as A Seismic Retrofit Measure," Transportation Research Board, Fourth International Conference on Bridge Engineering, Vol.2, August 1995, pp.71-78.
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103. Sadrossadat-Zadeh, M., and M. Saiidi "Effect of Constant and Variable Strain Rates on Stress-Strain Properties and Yield Propagation in Steel Reinforcing Bars," Center for Civil Engineering Earthquake Research, Department of Civil Engineering, University of Nevada, Reno, Nevada, Report No. CCEER-07-2, February 2007.
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### **Presentations:**

Many of the presentations were by invitation. The invited presentations are marked by "\*". In addition to those listed herein, many presentations were given at various technical committee meetings and to research committees of sponsoring organizations. Presentations by co-authors are no listed.

1. Saiidi, M., "Seismic Study of Imperial County Services Building," 2nd ASCE-EMD Structural Dynamics Specialty Conference, Atlanta, Georgia, January 1981.

2. Saiidi, M., "Research in Progress Report," Sixth Universities Council for Earthquake Engineering Research Conference, Urbana, Illinois, May 1980.
3. Saiidi, M. and K.E. Hodson, "Generalized Coordinate Approach in Nonlinear Seismic Analysis of Irregular R/C Structures," ACI Annual Convention, Atlanta, Georgia, January 1982.
4. Saiidi, M. and K.E. Hodson, "Earthquake Response of Irregular R/C Structures in the Nonlinear Range," Symposium on Advances and Trends in Structural and Solid Mechanics, Arlington, Virginia, October 1982.
5. Saiidi, M. and J.D. Hart, "Nonlinear Seismic Response of Short Reinforced Concrete Highway Bridges," Eighth World Conference on Earthquake Engineering, San Francisco, California, July 1984.
6. Saiidi, M., J.D. Hart, and B. Douglas, "Inelastic Analysis of Short Highway Bridges Subjected to Strong Ground Motions," Second International Conference on Recent Advances in Structural Dynamics, Southampton, England, April 1984.
7. Saiidi, M. and B. Douglas, "Performance of a R/C Highway Bridge Subjected to Design Earthquake Loads," Structures Congress, ASCE, San Francisco, California, October 1984.
8. Saiidi, M., "Approximate Methods for Inelastic Response Analysis of Reinforced Concrete Structures," ACI Annual Convention, Denver, Colorado, March 1985.
9. Saiidi, M., "Inelastic Analysis of Frames on a Microcomputer -Potential for Design Office Applications," International Conference on the Use of Computers in Civil Engineering, Toronto, Canada, August 1985.
10. Saiidi, M., "Inelastic Design Approaches for R/C Structures Under Lateral Loads - Approximate Methods," ASCE Structural Engineering Congress, Chicago, Illinois, September 1985.
11. Saiidi, M., D. Orie, and B. Douglas, "A Microcomputer CAD System for Seismic Design of Regular Highway Bridges," Ninth Conference on Electronic Computation, Birmingham, Alabama, February 1986.
- 12\*. Saiidi, M. "Constructability of Reinforced Concrete Joints," ACI Annual Convention, San Francisco, California, March 1986.
13. Saiidi, M. and B. Douglas, "Response of a Ten-span Reinforced Concrete Bridge Subjected to Lateral Loading," ACI Annual Convention, San Francisco, California, March 1986.

- 14\*. Saiidi, M., "Cast-In-Place Reinforced Concrete Connections," Second Century Skyscraper Conference, Council on Tall Buildings and Urban Habitats, Chicago, Illinois, January 1986.
- 15\*. Saiidi, M., "Microcomputer-Aided Seismic Analysis of Highway Bridges, the ATC-6 Method," Structures Congress, ASCE, New Orleans, Louisiana, September 1986.
- 16\*. Saiidi, M., J. Orie, and B. Douglas, "Tests on R/C Pinned Bridge Columns Subjected to Combined Shear and Flexure," Third Conference on Safety of Bridge Structures, Wroclaw, Poland, September 1987.
17. Saiidi, M., J. Orie, and B. Douglas, "The Behavior of R/C Pinned Bridge Columns Under Lateral Loading," Structures Congress, Orlando, Florida, August 1987.
- 18\*. Saiidi, M. and P. Ferrari, "Cracking of a Tilt-Up Structure due to Dynamic Loads," Structures Congress, Orlando, Florida, August 1987.
- 19\*. Douglas, B. and M. Saiidi, "Bridge Research at the University of Nevada, Reno," the U.S. - Japan Workshop on Performance and Strengthening of Bridge Structures, Tsukuba, Japan, May 1987.
20. Saiidi, M., T. Ho, and B. Douglas, "Prediction of the Ultimate Behavior of Retrofitted R/C Beams," ACI Convention, Seattle, Washington, November 1987.
- 21\*. Saiidi, M., "Constructability of R/C Structures in Seismic Areas," ASCE Capital Branch Meeting, Carson City, Nevada, January 1988.
22. Saiidi, M., "Civil Engineering Education, Where Should We Be Going?" ASCE Zone 4 Management Conference, Phoenix, Arizona, February 1988.
- 23\*. Saiidi, M., "Response of One-Way Hinged Piers Under Lateral Loads," presented at the U.S.-Japan Workshop on Highway Bridges, San Diego, California, May 1988.
24. Saiidi, M. and Y. Jiang, "Modeling the Hysteretic Response of Biaxially Bent R/C Columns by Four Springs," ASCE-EMD Specialty Conference, Blacksburg, Virginia, May 1988.
25. Saiidi, M., D. Bergman, and D. Straw, "Scaled Model Testing for Bridge Hinged Piers Subjected to Lateral Loads," presented at the NSF/ISU Bridge Research in Progress Symposium, Des Moines, Iowa, September 1988.
26. Saiidi, M. and J. Shields, "Direct Field Measurement of Prestress Losses in Box Girder Bridges," ACI Annual Convention, Atlanta, Georgia, February 1989.

- 27\*. Saiidi, M. and G. Ghusn, "The Effect of Stiffness Degradation on the Three-Dimensional Seismic Response of Highway Bridges", ASCE Structures Congress, San Francisco, California, May 1989.
28. Saiidi, M., J. Shields, and R. Johnson, "Monitoring Prestress Forces in a Box Girder Bridge," NATO, U.S.-European Symposium on Bridges, Baltimore, Maryland, May 1990.
- 29\*. Saiidi, M., "Understanding Bridges - From Field Testing to Laboratory Testing to Analytical Modeling," Technical University of Wroclaw, Wroclaw, Poland, April 1990.
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- 32\*. Saiidi, M., "Earthquake Resistant R/C Beam-to-Column Connections," International Concrete Conference, '90, Tehran, Iran, May 1990.
- 33\*. Saiidi, M., "Understanding Bridges - From Field Testing to Laboratory Testing to Analytical Modeling," Amirkabir University (Tehran Polytechnic Institute), Tehran, Iran, May 1990.
- 34\*. Saiidi, M., "Understanding Bridges - From Field Testing to Laboratory Testing to Analytical Modeling," College of Engineering, Tehran University, Tehran, Iran, May 1990.
- 35\*. Saiidi, M., "Critical Aspects of Seismic Design for Reinforced Concrete Joints," Design Division, Ministry of Communications, Tehran, Iran, May 1990.
- 36\*. Saiidi, M., E. Maragakis, and Y. Jiang, "An Approach to Evaluate the Sufficiency of Highway Bridges for Nuclear Spent Fuel Transportation," International High-Level Radioactive Waste Management Conference, Las Vegas, April 1991.
37. Maragakis, E. and M. Saiidi, "Evaluation of Seismic Response of Bridges with Hinge Restrainers," the First Annual Seismic Research Workshop, CALTRANS, Sacramento, California, December 1991.
38. Saiidi, M., J. Shields, D. O'Connor, and Eric Hutchens, "Variation of Prestress Forces in an Actual Bridge during the First 30 Months," ACI International Symposium on Bridge Engineering, Washington, D.C., March 1992.
- 39\*. Saiidi, M., E. Maragakis, and G. Ghusn, "Pier Ductility Demand in 3-D Response of Base-Isolated Bridges", ASCE Structures Congress, San Antonio, Texas, April 1992.

40. Saiidi, M. and D. Sanders, "Bridge Seismic Rehabilitation Practice in the United States," Third International Workshop on Bridge Rehabilitation, Darmstadt, Germany, June 1992.
41. Saiidi, M. D. Straw, and B. Douglas, "Lateral Load Response of R/C Bridge Column One-Way Hinges," Proceedings, 1992 NSF Structures, Geomechanics, and Building Systems Grantee's Conference, San Juan, Puerto Rico, June 1992.
- 42\*. Saiidi, M., "Our Strive toward Better Bridges - Testing, Analysis, and Design," Road and Bridge Research Institute , Ministry of Transportation, Warsaw, Poland, September 1992.
- 43\*. Saiidi, M., "Our Strive toward Better Bridges - Testing, Analysis, and Design," Technical University of Darmstadt, Germany, September 1992.
- 44\*. Saiidi, M., "Important Aspects of Concrete Bridge Response in Strong Earthquakes", Fourth International Conference on Safety of Bridge Structures, Wroclaw, Poland, September 1992.
- 45\*. Saiidi, M., "Our Strive toward Better Bridges - Testing, Analysis, and Design," Technical University of Vienna, Austria, November 1992.
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48. Saiidi, M., "Cyclic Response of One-Way R/C Hinges," ACI Committee 341 Meeting, ACI Annual Convention, San Juan, Puerto Rico, October 1992.
- 49\*. Saiidi, M., "Concrete Bridge Response in Strong Earthquakes," Second International Concrete Conference, '92, Tehran, Iran, November 1992.
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- 52\*. Saiidi, M., F. Gordaninejad, and N. Wehbe, "Study of Beams Constructed with Graphite/Epoxy Sections and Concrete Decks," Transportation Research Board Annual Meeting, Session 38, Washington, D.C., January 1993.

53. Saiidi, M., "Effects of Hinge Restrainers on the Seismic Response of Bridges," Second Annual Seismic Research Workshop, CALTRANS, Session IV, Sacramento, California, March 1993.
- 54\*. Saiidi, M., "Performance of Codes and Retrofits," Symposium on Practical Lessons Learned from the Loma Prieta Earthquake, Earthquake Engineering Research Institute, San Francisco, California, March 1993.
55. Saiidi, M., "Observations on the Response of Hinge Restrainer Systems in R/C Bridges," ACI Committee 341 Meeting, ACI Annual Convention, Vancouver, British Columbia, Canada, March 1993.
- 56\*. Saiidi, M., "Lateral Load Strength of Pinned R/C Columns in the Strong Direction," American Association of Highway and Transportation Officials Bridges and Structures Meeting, Committee T-3, Concrete and Masonry, Denver, Colorado, May 1993.
- 57\*. Saiidi, M., "Building and Bridge Damage during the August 1993 Guam Earthquake," American Society of Civil Engineers Truckee Meadows Branch Luncheon Meeting, Reno, Nevada, November 1993.
58. Saiidi, M., "Response of Concrete Bridges during the August 1993 Earthquake in Guam," ACI Committee 341 Meeting, ACI Convention, Minneapolis, Minnesota, November 1993.
- 59\*. Saiidi, M., "Current Practice on Design of Bridges and Elevated Road Systems in the United States -- An Overview," The International Workshop on Civil Infrastructural Systems, Taipei, Taiwan, January 1994.
- 60\*. Saiidi, M., E. Maragakis, D. Sanders, and D. O'Connor, "Seismic retrofit of Bridges in Northern Nevada," The Second US-Japan Workshop on Seismic Retrofit of Bridges, Berkeley, California, January 1994.
61. Saiidi, M., "Preliminary Report on the Bridge Damage during the 1994 Northridge Earthquake," Nevada Department of Transportation, Carson City, Nevada, January 1994.
- 62\*. Saiidi, M., "A Review of the Damage Caused by the 1994 Northridge Earthquake," Nevada Society of Professional Engineers, Engineers Day Luncheon, February 1994.
- 63\*. Saiidi, M., E. Maragakis, and D. Sanders, "Evaluation and Seismic Retrofit of Highway Bridge Substructures with Tapered Columns," The Tenth US-Japan Bridge Engineering Workshop, Lake Tahoe, Nevada, May 1994.
- 64\*. Saiidi, M., "Bridge Damage Caused by the 1994 Northridge Earthquake," Capital Branch of ASCE, Carson City, Nevada, May 1994.

- 65\*. Saiidi, M., B. Douglas, E. Maragakis, D. Sanders, F. Gordaninejad, and B. Rawat, "Recent Bridge Engineering Research at the University of Nevada, Reno," US-Slovak Conference on Bridge Engineering, Bratislava, Slovak Republic, June 1994.
- 66\*. Saiidi, M., B. Douglas, E. Maragakis, D. Sanders, F. Gordaninejad, and B. Rawat, "Recent Bridge Engineering Research at the University of Nevada, Reno," US-Czech Conference on Bridge Engineering, Prague, Czech Republic, June 1994.
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68. Saiidi, M., E. Maragakis, and S. Feng, "Field Performance and Design Issues for Bridge Hinge Restrainers," Fifth US National Conference on Earthquake Engineering, Chicago, Illinois, July 1994.
69. Saiidi, M., B. Douglas, E. Maragakis, D. Sanders, F. Gordaninejad, and B. Rawat, "Infrastructure and Earthquake Engineering Research at the University of Nevada, Reno," US-Hungarian Workshop on Infrastructure, Budapest, Hungary, September 1994.
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- 162\*. Saiidi, M., "Aspects of New and Standard Bridge Seismic Retrofit,: Invited Distinguished Speaker, 2004 Student Leadership Conference, Sponsored by Multidisciplinary Center for Earthquake Engineering Research, University of New York, Buffalo, held in Reno, Nevada, October 2004.
- 163\*. Saiidi, M., "Discovering New Frontiers of Bridge Earthquake Engineering," College of Engineering Advisory Board Corporate Partners Program, University of Nevada, Reno, October 2004.
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- 170\*. Saiidi, M., "Lessons Learned from Shake Table Testing of RC Columns in Relation to Post-Earthquake Evaluation," Society for Experimental Mechanics, IMAC 23 Conference, Orlando, Florida, February 2005.

- 171\*. Saiidi, M., "Recent Findings on Near-Fault Earthquake Effects on Bridge Columns Designed for Far-Field Earthquakes," Federal Highway Administration, McLean, Virginia, February 2005.
- 172\*. Saiidi, M., "An Update on NSF NEES-Funded Comprehensive Study of Bridges at the University of Nevada," Federal Highway Administration, McLean, Virginia, February 2005.
- 173\*. Saiidi, M. "NEES-Demonstration Study: Large-Scale Shake Table Testing of a Two-Span Bridge," NEES Board Meeting, Reno, Nevada, February 2005.
- 174\*. Saiidi, M., "Soil-Foundation-Structure Interaction Studies through An NSF NEES Demonstration project," US-Japan Workshop on Large-Scale Testing on the Seismic Performance of Bridges, San Francisco, California, February 2005.
- 175\*. Saiidi, M., "A Comprehensive Study of Bridge Systems Using Large-Scale Shake Table Testing," US-Japan Workshop on Large-Scale Testing on the Seismic Performance of Bridges, San Francisco, California, February 2005.
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- 177\*. Saiidi, M., "Update on Bridge Earthquake Engineering Research at the University of Nevada, Reno," University of Nevada, Las Vegas, Nevada, April 2005.
- 178\*. Saiidi, M., "Development of the Office of Undergraduate Research at the University of Nevada, Reno," University of Nevada, Las Vegas, Nevada, April 2005.
- 179\*. Saiidi, M., "Collaboration Lessons Learned from a Pre-NEESR Bridge SFSI Project at the University of Nevada, Reno," Invited Plenary Presentation, NEES Third Annual Meeting, Minneapolis, Minnesota, May 2005.
- 180\*. Saiidi, M., "An Overview of New Initiatives in Bridge Earthquake Engineering Research at the University of Nevada, Reno," Tahoe Truckee Engineers Association Meeting, Truckee, California, May 2005.
- 181\*. Saiidi, M., and H. Wang, "Innovative materials for bridge seismic design," Invited Paper, Earthquake Resistant Engineering Structures 5, International Conference, Skiathos, Greece, May 2005.
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- 189\*. Correal, J., M. Saiidi, and D. Sanders, "Seismic Design Issues in Bridge Columns with Interlocking Spirals," Proceedings, Paper No. 01-503, Caltrans Bridge Research Conference, Sacramento, California, October-November 2005.
- 190\*. Saiidi, M., "Experimental Seismic Studies of Concrete Bridges," Third International Workshop, Structural Concrete in the Americas, Kansas City, Missouri, November 2005.
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192. Saiidi, M., R. Johnson, and E. Maragakis, "An Exploratory Study of FRP Seismic Restrainers Subjected to Dynamic Loads," 7<sup>th</sup> International Symposium on Fiber Reinforced Polymer Reinforcement for Reinforced Concrete Structures, Kansas City, Missouri, November 2005.
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- 194\*. Saiidi, M., "Shake Table Testing of Bridge Systems and Design Implications," TRB Committee AFF50, Transportation Research Board 85<sup>th</sup> Annual Meeting, Washington, DC, January 2006.
195. Saiidi, M., "Five Examples of Recent Bridge Earthquake Engineering Research at the University of Nevada, Reno," Fourth International Workshop on Seismic Design and Retrofit of Transportation Facilities, Reno, Nevada, March 2006.
- 196\*. Saiidi, M., Z. Cheng, and D. Sanders, "New Seismic Design for RC Two-Way Bridge Column Hinges," ACI Convention, Charlotte, North Carolina, March 2006.
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199. Saiidi, M., "Earthquake Studies of a Two-Span Reinforced Concrete Bridge System with Variable Column Heights," Plenary Presentation, NEES Fourth Annual Meeting, Washington, DC, June 2006.
200. Saiidi, M., "Collaborative Study of Biaxial Seismic Response of Bridge Systems," NEES Fourth Annual Meeting, Washington, DC, June 2006.
- 201\*. Saiidi, M., M. Zadeh, and M. O'Brien, "Analysis of Reinforced Concrete Bridge Columns with Shape Memory Alloy and Engineered Cementitious Composites Under Cyclic Loads," 3rd International Conference on Bridge Maintenance, Safety, and Management, Porto, Portugal, July 2006.
- 202\*. Zhu, Z., A. Mirmiran, and M. Saiidi, "Seismic Performance of Reinforced Concrete Bridge Columns Encased in Fiber Composite Tube," 3rd International Conference on Bridge Maintenance, Safety, and Management, Porto, Portugal, July 2006.
- 203\* Saiidi, M. "Earthquake Studies of Large-Scale Bridge Models," Summer Camp, K-12 Outreach Program, University of Nevada, Reno, July 2006.
- 204\*. Saiidi, M., V. Phan, J. Anderson, and H. Ghasemi, "Near Fault Earthquake Design Consideration for Reinforced Concrete Bridge Columns," Second US-Taiwan Bridge Engineering Workshop, Session on Natural Hazard and Emergency Response, San Francisco, California, September 2006.

- 205\*. Saiidi, M., "Earthquake Engineering Research on Reinforced Concrete Bridges," National Biennial Conference on Concrete Structures and Materials, ASOCRETO, Cartagena, Colombia, September 2006.
- 206\*. Saiidi, M., "Lessons Learned from Three Recent Earthquake Engineering Research Projects at the University of Nevada, Reno: FRP Restrainers, Column Hinges, and Near-Fault Earthquake Effects," University of Los Andes, Civil and Environmental Engineering Department, Bogota, Colombia, September 2006.
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**Summary of Listed Publications/Presentations:**

Presentations: 245  
 Edited books: 5  
 Journal and other fully peer-reviewed publications: 95  
 Research reports: 106  
 Conference articles: 177

Total no. of publications: 383