May 2025

CURRICULUM VITAE
MICHAEL C. CONSTANTINOU

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CURRENT AFFILIATION:

Samuel P. Capen Professor and SUNY Distinguished Professor, Department of Civil, Structural and Environmental Engineering, University at Buffalo, State University of New York

EDUCATION:

Diploma in Civil Engineering (5-year course), University of Patras, 1980

M.S., Rensselaer Polytechnic Institute, Troy, N.Y., 1981

Ph.D. in Civil Engineering, Rensselaer Polytechnic Institute, Troy, N.Y., 1984

ACADEMIC POSITIONS

Assistant Professor, Dept. of Civil Engineering, Drexel University, Philadelphia, PA, 1984 to 1987.

Assistant Professor, Department of Civil Engineering, University at Buffalo, State University of New York, 1987 to 1989.

Associate Professor, Department of Civil Engineering, University at Buffalo, State University of New York, 1989 to 1994.

Director of Graduate Studies, Department of Civil Engineering, University at Buffalo, State University of New York, 1990 to 1992.

Professor, Department of Civil, Structural and Environmental Engineering, University at Buffalo, State University of New York, 1994 to present.

SUNY Distinguished Professor, Department of Civil, Structural and Environmental Engineering, University at Buffalo, State University of New York, 2014 to present.

Samuel P. Capen Professor, 2016-present.

Director or Deputy Director, Structural Engineering and Earthquake Simulation Laboratory, University at Buffalo, State University of New York, 1997 to 2004 and 2010 to 2014.

Chair, Department of Civil, Structural and Environmental Engineering, University at Buffalo, State University of New York, 1999 to 2005.

PROFESSIONAL POSITIONS AND CONSULTING:

Engineer, B. Schwartz and Associates, Plymouth Meeting, PA, 1984.

Consultant on analysis and design of structures with emphasis on seismic protective systems design, analysis, inspection, testing and peer review, 1984-today.

Consulted on the following projects: Mesologgi Hospital, Greece; Corinth Canal Bridges, Greece; LNG Tanks, Greece; U.S. Court of Appeals building, San Francisco, CA; San Bernardino County Medical Center Replacement Project, CA; Queensboro Bridge, NY; ISP Chemicals Tanks, Kentucky; University Bridge, Seattle, WA; San Francisco Airport International Terminal, CA; Corinth Canal Railway Bridge, Greece; Rion-Antirion Cable-Stayed Bridges, Greece; Caltrans SRMD Test Facility, CA; JFK Roadways, NY; Beijing Railway Station, China; Hearst Mining Building, Berkeley, CA; Rion-Antirion Approach Viaduct, Greece; Santa Clara Police Facility, CA; Yerba Buena Tower, San Francisco, CA; 196th Street Bridge, Seattle, WA; Woodrow-Wilson Bridge, Washington, D.C; Ataturk International Airport Terminal, Istanbul, Turkey; Pasadena City Hall, CA; Ingram Micro Building, Santa Ana, CA; AboveNet Building, San Francisco, CA; Univ. Avenue Building, Palo Alto, CA; Bolu Viaduct, Turkey; Museum of the Acropolis, Greece; SouthBay Tower, San Jose, CA; Onassis Center, Greece; CYTA Central Building, Cyprus; Shemya Radar Facility, Alaska; Ashley Phosphate and US 52 Bridges, Charleston, SC; Kourion Structures, Cyprus; Centre Administratif Pictet-Acacias, Switzerland; Orlan Oil and Gas Platform (ExxonMobil), Russia; Piltun Oil and Gas Platform (Shell), Russia; Lunskoye Oil and Gas Platform (Shell), Russia; Willamette River Bridge, Oregon; New de Young Museum, San Francisco, CA; Oakland Cathedral, Oakland, CA, Baha'i Temple, Chile; Tarabya Hotel, Turkey; Nordstrom South Coast Plaza, Costa Mesa, CA; LNG Tanks, Long Beach, CA; CYTA Building Retrofit Program, Cyprus; George Washington Bridge, WA; Mills Peninsula Hospital, Burlingame, CA; Statue of Hermes, Greece; CPMC Hospital, San Francisco, CA; Washington Hospital, Fremont, CA; Olympic Committee Building, Cyprus; Dafni Railway Bridge, Greece; Erzurum Hospital, Turkey; 11th Avenue Bridge, NYC; Limassol Public Library, Cyprus; Riviere des Prairies Bridge, Montreal, Canada; Jin Nam 3rd Bridge, Korea; New Yang Soo Grand Bridge, Korea; Gangdong Grand Bridge, Korea; University Building, Cyprus; Heyder Aliyev Cultural Center, Baku, Azerbaijan; San Francisco General Hospital, San Francisco, CA; Throgs Neck Bridge, NY; Kimpo Airport, Korea; Kyung Ho River 1st, 2nd and 6th Bridges, Korea; Hang Jyung Bridge, Korea; Ansungchun Bridge, Korea; Namgang Bridge, Korea; Watan Bridge, Korea; Sojung Grand Bridge, Korea; Hongsunwasan Bridge, Korea; Arkuntun-Dagi Oil and Gas Platform (ExxonMobil), Russia; Monroe County Crime Lab, Rochester, NY; Stanford University Hospital, CA; San Bernardino Courthouse, CA; Electricity Authority Building, Pafos, Cyprus; New Janhowon Bridge, Korea; Daesung Bridge, Korea; Galchun 2nd Bridge, Korea; Semi Bridge, Korea; Moonam Bridge, Korea; Namganng Ditch 3rd Bridge, Korea; Sabiha Gokcen Airport Terminal, Istanbul, Turkey; Nordstrom Westside Pavilion, Los Angeles; China Trust Bank, Taiwan; 8 Washington Building, San Francisco, CA; San Diego Courthouse, CA; Yihua Dazhi, Taiwan; Newton Reservoir, Vancouver, Canada; Port Mann Bridge, Vancouver, Canada; Apple Campus, Cupertino, CA; New Nonsan Grand Bridge, Korea; Cekmekoy Alemdar Hospital, Turkey; Yeongi Bridge, Korea; RFK Bridge, New York; Tappan Zee Bridge, New York; 6th Street Bridge, Los Angeles, CA; St. Bernardine Medical Center, San Bernardino, CA; Loma Linda University Medical Center, Loma Linda, CA; Goethals Bridge, NY-NJ; Hotel via Vallejo, Mexico City, Mexico; Naval Medical Center, San Diego, CA; CEC B7

Xinyi Building, Taiwan; A20/A73 Interchange Bridge, Quebec, Canada; ESPE Research Building, Quito, Ecuador; Giant Magellan Telescope, Chile; Basaksehir Integrated Health Campus, Istanbul, Turkey; Los Angeles County Museum of Art, CA; Christchurch Outpatient Facility, New Zealand; Gerald Desmond Bridge, CA; St. Bernardine Hospital, CA; Vincent Thomas Bridge, CA; Wrapper Building, Los Angeles, CA; Pont Sur La Route 169 Au-Dessus de la Rivière Mistassini, Quebec, Canada; Vallco Town Center, Cupertino, CA; Dunedin Hospital, New Zealand; 80 the Terrace Building, New Zealand; US 97: OR58-California Border Bridge; Gordie Howe International Bridge, Detroit; High-Rise Office Building, Gurkhabasti, Agartala, West Tripura, India; New Washington Hospital, Fremont, CA; Fubon Mixed Used Buildings, Taiwan; UCSF Helen Diller Hospital, San Francisco, CA, Dutch John Cut High Speed Rail Bridge, CA.

Consultant on analysis and design of industrial systems, identification of machine vibration problems and design of motion control systems for machines and equipment, 1984- today.

Examples of projects: nonlinear, large displacement analysis of shelving systems; identification of vibration problems of paper processing machines; design of tuned mass dampers for machines; investigation of methods for enhancing damping in order to reduce vibration in machines; design of bridge expansion joints; testing of vibration isolation systems; design of seismic isolation system for telecommunication equipment; testing of bearings, testing of energy dissipation devices; design of vibration/seismic isolation system for 5,000 ton transfer press; analysis of floor vibration due to human walking.

AWARDS AND HONORS:

Thomas A. Bedford Prize, Rensselaer Polytechnic Institute, Troy, N.Y., 1982. (In recognition of outstanding academic achievement).

Horton Fellowship, Rensselaer Polytechnic Institute, Troy, N.Y., 1983.

Presidential Young Investigator Award, 1988. Awarded by President Ronald Reagan to young scientists in recognition of ability and potential in contributing to the future vitality of the scientific and engineering effort of the United States.

Best Paper Award, 3rd World Congress on Joints and Bearings, American Concrete Institute, 1991.

General Services Administration Design Award, General Services Administration, Public Building Service. With Navin Amin, Anoop S. Mokha and Victor Zayas for the design of the U.S. Court of Appeals building, San Francisco, 1994. Award given biennially in the category of Engineering, Technology and Innovation.

Finalist, Charles Pankow Award for Innovation (for the Friction Pendulum Seismic Isolation Bearing), CERF, Washington, DC, 1998.

Diamond Award, New York Association of Consulting Engineering Companies. With Thornton-Tomasetti Engineers and Andrew S. Whittaker for excellence in the engineering design of the Ataturk International Airport, 2002.

Grand Award, American Council of Engineering Companies. With Thornton-Tomasetti Engineers and Andrew S. Whittaker for excellence in the engineering design of the Ataturk International Airport, 2002.

Finalist, Charles Pankow Award for Innovation (for the design of the Torre Mayor Building, Mexico), CERF, Washington, DC, 2003.

SUNY Chancellor's Award for Excellence in Scholarship and Creative Activity, 2004.

Charles Pankow Award for Innovation (for the design of the Torre Mayor Building, Mexico), CERF, Washington, DC, 2005.

SUNY Distinguished Professor, 2014.

Moisseiff Award, American Society of Civil Engineers, for paper "Simulated Bilinear-Elastic Behavior in a SDOF Elastic Structure Using Negative Stiffness Device: Experimental and Analytical Study", 2015.

Nathan M. Newmark Medal, American Society of Civil Engineers, for "significant contributions to the innovation, theoretical development, experimental verification, creation of design standards, assisting practicing professionals in real life implementations and educating new generations of professionals in further developments of protective systems for infrastructure against catastrophic shocks and vibrations," 2015.

Honorary Doctorate Degree, University of Patras, Greece, 2019.

Elected Fellow of the American Society of Civil Engineers, 2019

Distinguished Alumni Award, Rensselaer Polytechnic Institute, 2022

Elected Fellow of the Structural Engineering Institute, American Society of Civil Engineers, 2024.

PROFESSIONAL ACTIVITIES:

A. Instructor of Professional Courses

Drexel University
Finite Elements with Computer Graphics

B. Reviewer of Technical Papers

American Society of Civil Engineers, Journal of Structural Engineering
American Society of Civil Engineers, Journal of Bridge Engineering
American Society of Civil Engineers, Journal of Engineering Mechanics
American Society of Civil Engineers, Journal of Geotechnical Engineering
Earthquake Engineering and Structural Dynamics
Probabilistic Engineering Mechanics
Journal of Applied Mechanics
Engineering Structures
Earthquake Spectra
International Journal of Solids and Structures
Mechanics of Structures and Machines

Soil Dynamics and Earthquake Engineering
Structural Engineering and Mechanics
Advances in Structural Engineering
Shock and Vibration
Bulletin of Earthquake Engineering
Journal of Earthquake Engineering
Structures and Earthquakes

C. Committees

Chair, Subcommittee 12 and member of Provisions Update Committee, Development of 2003 NEHRP Recommended Provisions for the Development of Seismic Regulations for New Buildings, Building Seismic Safety Council, National Earthquake Hazard Reduction Program, 2001-2003.

Member, Subcommittee 12 and Provisions Update Committee, Development of 1994, 1997 and 2000 NEHRP Recommended Provisions for the Development of Seismic Regulations for New Buildings, Building Seismic Safety Council, National Earthquake Hazard Reduction Program, 1993-2000.

Member, New Technologies Team, Project ATC-33 for Preparation of National Guidelines for Seismic Rehabilitation of Buildings, Applied Technology Council, 1993-1997. Development of FEMA Guidelines for the Seismic Rehabilitation of Buildings.

Member, Seismic Isolation Committee, American Society of Civil Engineers, 1995-present.

Member, T-3 Seismic Design Task Group, AASHTO Subcommittee on Bridges and Structures, Development of the 1999 AASHTO Guide Specifications for Seismic Isolation Design, 1995-1997.

Member, ASCE 7- Earthquake Loads Task Committee, Development of ASCE Load Standard ASCE 7-02 for year 2002, ASCE 7-05 for year 2005, ASCE7-2010 for year 2010, and ASCE7-2016 for year 2016, 2000-present.

Member, Project Management Committee, FEMA Project ATC-63, 2005-2013.

Member, Subcommittee 2, Development of NEHRP Recommended Provisions for the Development of Seismic Regulations for New Buildings, Building Seismic Safety Council, National Earthquake Hazard Reduction Program, 2006-today.

Member (by appointment) of bi-national, 36-member jury for selection of new Peace Bridge design, Buffalo, NY, August to December 2005.

D. Conference Organization

Co-Chairman (with J. Roberts and J.M. Kelly), 4th World Congress on Joints and Bearings for Concrete Structures, ACI, Sacramento, CA, 1996.
Chairman, Steering Committee, U.S.-Italy Workshop on Seismic Protective Systems for Bridges, New York City, 1998.
Member, Steering Committee, ATC-17-2 Seminar on Response Modification Technologies, Applied Technology Council, Los Angeles, 2002.

Member, Scientific Committee, FIB Symposium on Concrete Structures in Seismic Regions, Athens, Greece, 2003.

E. Editorial Positions

Earthquake Engineering and Structural Dynamics, Editor
Earthquakes and Structures, Editorial Board
Bulletin of Earthquake Engineering, Editorial Board

COURSES TAUGHT:

A. Undergraduate

Theory of Structures I, II and III	(Drexel University)
Behavior of Structural Members	(Drexel University)
Senior Design	(Drexel University)
Senior Seminar	(Drexel University)
Introduction to Civil Engineering	(Drexel University)
Structural Engineering, I and II	(University at Buffalo)
Structural Engineering Laboratory	(University at Buffalo)
Civil Engineering Creations	(University at Buffalo)
Capstone Design	(University at Buffalo)

B. Graduate

Advanced Structural Analysis I, II and III	(Drexel University)
Structural Dynamics and Earthquake Engineering I	(University at Buffalo)
Aseismic Base Isolation	(University at Buffalo)

RESEARCH ACTIVITIES:

A. Research Supervision of Undergraduate Students

1. John Caccese, Donald Bamford, Fred Furst. Senior Design Project at Drexel University: Shake Table Testing of Sliding Rigid Structures, 1986.

2. Alan Sharf, Javier Torrijos, Chang Sohn. Senior Design Project at Drexel University: Nonlinear, Large Displacement Analysis of Steel Shelving Systems, 1987.

3. Craig Winters and Michael Symans. Senior scholars program. Development and Testing of High Damping Urethane Rubber Bearings, University at Buffalo, 1989.

4. Martin Augustyniak, Michael McManus and Paul Shriver. Involved in Bridge Seismic Isolation Project and Computer Floor Isolation Project at University at Buffalo, University at Buffalo, 1992-1993.

5. Wing-Tsung Choi, Asiyah Grant and Carlos Amaya, R.E. McNair Research Internship Program for Minorities. Involved in Seismic Isolation and Energy Dissipation Projects at University at Buffalo, University at Buffalo, 1993-1996.

6. Dan Fenz, Senior scholars program. Further development of Axon Seismic Isolation System, University at Buffalo, 2002.

B. Research Supervision of Graduate Students (as supervising professor)

1. Robin Sue Greenleaf, "Stress Systems in Orthotropic Quarter Plane", M.S., June 1986, Drexel University.

2. Allaoua Kartoum, "A Contribution to the Analysis of Elastomeric Bearings", M.S., June 1987, Drexel University.

3. Madjid Adnane, "Evaluation of Two Models for Yielding Systems", M.S., August 1987, Drexel University.

4. Bouzid Choubane, "Stresses in Infinite Slopes of Orthotropic Media", M.S., August 1987, University of Pennsylvania.

5. Mahmoud C. Kneifati, "Dynamics of Soil-Base-Isolated-Structure Systems", Ph.D., June 1988, Drexel University.

6. Nicos Makris, "Analysis of Motion of Harmonically Excited Sliding Isolation Systems", M.S., Dec. 1989, University at Buffalo, SUNY.

7. Anoop Mokha, "Experimental and Analytical Study of Sliding Isolation Systems", Ph.D., May 1990, University at Buffalo, SUNY.

8. Dimitris Theoddossiou, "Evaluation of SEAOC Design Requirements for Sliding Isolated Structures," M.S., December 1990, University at Buffalo, SUNY.

9. Panayiotis Tsopelas, "Nonlinear Dynamic Analysis of Multiple Building Isolated Structures", M.S., April 1991, University at Buffalo, SUNY.

10. Allaoua Kartoum, "Experimental and Analytical Study of a Sliding Isolation System for Bridges," Ph.D., November 1991, University at Buffalo, SUNY.

11. Nicos Makris, "Theoretical and Experimental Investigation of Viscous Dampers in Applications of Seismic and Vibration Isolation", Ph.D., December 1991, University at Buffalo, SUNY.

12. George Demetriades, "Study of Wire Rope Systems for Seismic Protection of Equipment in Buildings", M.S., April 1992, University at Buffalo, SUNY.

13. Michael Symans, "Experimental and Analytical Investigation of Seismic Response of Buildings with Supplemental Fluid Viscous Dampers," M.S., October 1992, University at Buffalo, SUNY.

14. Craig Winters, "Evaluation of Static and Response Spectrum Analysis Procedures of SEAOC/UBC for "Seismic Isolated Structures," M.S., March 1993, University at Buffalo, SUNY.

15. Young-Suk Kim, "Experimental Study of Friction Pendulum System in Bridge Seismic Isolation," M.S., May 1993, University at Buffalo, SUNY.

16. Panayiotis Tsopelas, "Testing and Modeling of a Class of Bridge Seismic Isolation Systems," Ph.D., August 1994, University at Buffalo, SUNY.

17. Varnavas Lambrou, "Study of Seismic Isolation Systems for Computer Floors", M.S., June 1994, University at Buffalo, SUNY.

18. Michael Symans, "Development and Experimental Study of Semi-Active Fluid Damping Devices for Seismic Protection of Structures," Ph.D., July 1995, University at Buffalo, SUNY.

19. Amarnath Kasalanati, "Experimental Study of Elastomeric and Other Bridge Isolation and Energy Dissipation Systems with Emphasis on Uplift Prevention and High Velocity Pulse Excitation", Ph.D., March 1998, University at Buffalo, SUNY.

20. Wilhelm Hammel, "Testing and Modeling of an Improved Damper Configuration for Stiff Structural Systems," M.S., September 1997, University at Buffalo, SUNY.

21. Joseph Quarshie, "Response Modification Factors for Seismic-Isolated Bridges," Ph.D., July 1998, University at Buffalo, SUNY.

22. Joern Scheller, "Response History Analysis of Structures with Seismic Isolation and Energy Dissipation Systems: Verification Examples for Program SAP 2000," M.S., October 1998, University at Buffalo, SUNY.

23. Eric D. Wolff, "Frictional Heating in Sliding Bearings and an Experimental Study of High Friction Materials," M.S., May 1999, University at Buffalo, SUNY.

24. Marc Zimmer, "Characterization of Viscoelastic Materials for Use in Seismic Energy Dissipation Systems," M.S., October 1999, University at Buffalo, SUNY.

25. Oscar Ramirez, "Development and Evaluation of Simplified Methods of Analysis and Design for Structures with Passive Energy Dissipation Systems", Ph.D., November 2000, University at Buffalo, SUNY.

26. David Juan Gomez, "Evaluation of Simplified Methods of Analysis of Yielding Structures with Energy Dissipation Systems," M.S., September 2000, University at Buffalo, SUNY.

27. Ani Natali Sigaher, "Scissor-Jack-Damper Energy Dissipation System," Ph.D., June 2004, University at Buffalo, SUNY.

28. Thomas Boyle, "Development and Testing of Highly Compact Seismic Isolation/Energy Dissipation System for Equipment", M.S., May 2003, University at Buffalo, SUNY.

29. Eric D. Wolff, "Experimental Study of Seismic Isolation Systems with Emphasis on Secondary System Response and Verification of Accuracy of Dynamic Response History Analysis Methods", Ph.D., August 2003, University at Buffalo, SUNY.

30. Eleni Pavlou, "Methods of Analysis and Design of Buildings with Damping Systems", Ph.D., May 2005, University at Buffalo, SUNY.

31. Panagiotis Roussis, “Experimental and Analytical Investigation of Seismic Isolation Systems with Uplift Restraint”, Ph.D., August 2004, University at Buffalo, SUNY.

32. Daniel Fenz, “Further Development of the Axon Seismic Isolation System”, M.S., May 2005, University at Buffalo, SUNY.

33. Daniel Fenz, “Development, Implementation and Verification of Dynamic Analysis Models for Multi-Spherical Sliding Bearings”, Ph.D., May 2008, University at Buffalo, SUNY.

34. Yiannis Kalpakidis, “Effects of Heating and History of Loading on the Behavior of Lead-Rubber Bearings,” Ph.D., August 2008, University at Buffalo, SUNY.

35. Ricardo Ecker Lay, “Development and Verification of Simplified Expressions for Shear Strain in Rubber Layers for Use in design of Elastomeric Bearings”, M.S., December 2009, University at Buffalo, SUNY.

36. Dhiman Basu, “Characterization of Rotational Components of Earthquake Ground Motion”, Ph.D., May 2012, University at Buffalo, SUNY. Co-advisor Professor A.S. Whittaker.

37. Apostolos Sarlis, “Negative Stiffness Device for Seismic Protection of Structures”, Ph.D., May 2013, University at Buffalo, SUNY. Co-advisor Professor A.M. Reinhorn.

38. William J. McVitty, “Property Modification Factors for Seismic Isolators: Design Guidance for Buildings”, M.S., December 2014, University at Buffalo, SUNY.

39. Manish Kumar (1), “Models of Elastomeric Seismic Isolation Bearings for Analysis under Extreme Loadings”, Ph.D., May 2015, University at Buffalo, SUNY. Co-advisor Professor A.S. Whittaker.

40. Manish Kumar (2), “Seismic Isolation of Nuclear Power Plants using Sliding Isolation Bearings”, Ph.D., May 2015, University at Buffalo, SUNY. Co-advisor Professor A.S. Whittaker.

41. Konstantinos Oikonomou, “Seismic Isolation of Electrical Transformers”, Ph.D., June 2015, University at Buffalo, SUNY. Co-advisor Professor A.M. Reinhorn.

42. Erkan Polat, “Open Space Damping System Theory and Experimental Validation”, Ph.D., May 2017, University at Buffalo, SUNY.

43. Shoma Kitayama, “Development and Evaluation of Procedures for Analysis and Design of Buildings with Fluidic Self-Centering Systems”, Ph.D., September 2017, University at Buffalo, SUNY.

44. Donghun Lee, “Development and Validation of Combined Horizontal-Vertical Seismic Isolation System for High-Voltage Power Transformers”, Ph.D., September 2017, University at Buffalo, SUNY.

45. Huseyin Cilsalar, “Development and Validation of a Seismic Isolation System for Lightweight Residential Construction”, Ph.D., May 2019, University at Buffalo, SUNY.

46. Sebastian Lopez Restrepo, “Shake Table Testing and Model Validation of a Seismic Isolation System for Lightweight Structures”, Ph.D., June 2024, University at Buffalo, SUNY.

47. Hyun Myung Kim, "Development of Performance-Based Testing Specifications for Seismic Isolators", Ph.D., June 2024, University at Buffalo, SUNY.

C. Postdoctoral Fellows, Research Engineers and Visiting Scholars

1. Professor Faruq M.A. Siddiqui, Swarthmore College, PA, Postdoctoral Research Associate, Drexel University, June to August 1986.

2. Dr. Shunji Fujii, Taisei Corp., Japan, Visiting Research Engineer, May to November 1991.

3. Mr. Susumu Okamoto, Taisei Corp., Japan, Visiting Research Engineer, May 1991 to June 1992.

4. Dr. Daisuku Ozaki, Taisei Corp., Japan, Visiting Research Engineer, May 1992-May 1993.

5. Dr. Panayiotis Tsopelas, Research Scientist, August 1994-1998.

6. Dr. Ayman Seleemah, Visiting Scholar, Ministry of Higher Education, Egypt, 1995-1997.

7. Professor Masato Abe, University of Tokyo, August to September 1997.

8. Professor Ricardo Uliarte, National University of San Juan, Argentina, September to October, 1999.

9. Dr. Genciz Ipek, Istanbul Technical University, Turkey, April to September 2000.

10. Dr. Chrystis Chrysostomou, Higher Technical Institute, Cyprus, September to December 2001.

11. Dr. Nader Heyat, Istanbul Kultur University, Turkey, August 2004 to August 2005.

12. Dr. Balkrishna B. Soneji, IIT Bombay, India, January 2007 to June 2007.

13. Ms. Guiseppina Patalano, University of Florence, Italy, August 2007 to April 2008.

14. Mr. Fabio Fadi, University of Udine, Italy, January 2008 to August 2008.

15. Professor Sevket Ates, Karadeniz Technical University, Trabzon, Turkey, August 2008 to January 2009.

16. Professor Gökhan Özdemir, Anadolu University, Eskisehir, Turkey, February 2009 to November 2009.

17. Dr. H. Cem Yenidogan, Bogazici University, Istanbul, Turkey, January 2011 to June 2011.

18. Dr. Deepak Pant, Tokyo Institute of Technology, Japan, October 2012 to December 2012.

19. Dr. Leandro M. Morillas Romero, University of Granada, Spain, January 2013 to April 2013.

20. Professor Mucip Tapan, University of Van, Van, Turkey, March 1, 2013 to October 31, 2013.

21. Professor Lihua Zhu, Xi'an University of Architecture and Technology, Xi'an, China, January 1 to December 31, 2014.

22. Dr. Ling-kun Chen, Lecturer, College of Civil Science and Engineering, Yangzhou University, China, January 1 to December 31, 2015.

23. Dr. Anastasia Athanasiou, Civil Engineering and Architecture, University of Catania, Italy, January 20 to May 15, 2015.

24. Dr. Yuzhi Zhang, Department of Bridge Engineering, School of Civil Engineering, Southwest Jiaotong University, China, September 1, 2016 to August 31, 2017.

25. Dr. Shoma Kitayama, October 13, 2017-April 14, 2021.

26. Professor Isak Idrizi, Faculty of Civil Engineering and Architecture, Mother Teresa University, North Macedonia, Fulbright Scholar, January 15, 2024 to January 14, 2025.

27. **GRANT SUPPORT (as Principal Investigator or as noted)**

	TITLE	SPONSOR	AMOUNT	AWARD PERIOD
1.	Response of Base-Isolated Structures to Nonvertically Incident Seismic Waves	Drexel University	$2,500	11/1/84 - 6/30/85
2.	Linear and Nonlinear Seismic Response of Base-Isolated Structures on Flexible Foundation (Research Initiation Grant ECE-85064604)	NSF	$60,000	10/1/85 - 9/30/87
3.	Supplemental Grant to Research Initiation Grant (ECE-85064604)	NSF-ROA	$10,010	10/1/85 - 9/30/87
4.	Passive Control of Building Structures (Frictional Characteristics of Teflon-Steel Interfaces) (Contract No. 87-2002)	NCEER	$55,000	9/1/87 - 8/31/88
5.	Displacement Control Devices for Reduction of Bridge Damages During Earthquakes (with A.M. Reinhorn)	Watson-Bowman Acme Corp.	$75,000	1/1/88 - 8/31/90
6.	Presidential Young Investigator Award (CES-8857080)	NSF	$312,500	9/15/88 - 2/28/93
7.	Industrial Contribution to PYI Award	*	$142,120	9/1/88 - 2/28/93
8.	Industrial Contribution to PYI Award (Equipment)	MTS Systems	$50,460	9/1/88 - 8/31/89
9.	Passive Control of Building Structures (Experimental Verification of Sliding Isolation Systems) (Contract No. 88-2002A)	NCEER	$42,000	9/1/88 - 8/31/89
10.	Passive Control of Building Structures (Continuation of Project No. 9) (Contract No. 89-2101)	NCEER	$62,500	9/1/89- 8/31/90
11.	Performance of Sliding Isolated Structures (Contract No. 902101)	NCEER	$60,000	9/1/90- 8/31/91

	TITLE	SPONSOR	AMOUNT	AWARD PERIOD
12.	TAISEI/U.B. Research Project on Seismic Isolation of Bridges	TAISEI Corp.	$555,500	6/1/91-8/31/93
13.	Application of Sliding Isolation Systems to Bridges (Contract No. 915411B)	NCEER	$75,000	9/1/91-8/31/92
14.	Innovative Support Design for Nonstructural Components (Contract No. 915211B)	NCEER	$25,000	9/1/91-8/31/92
15.	Evaluation and Retrofit of Bridge Bearings and Bridge Substructures (J.B. Mander, I.Buckle, M.C. Constantinou)	NCEER	$75,000	9/1/91-8/3/92
16.	Integrated Modular Software for Damage Analysis of Bridges - IDARC4 (A. Reinhorn, G. Gazetas, M.C. Constantinou)	NCEER	$50,000	9/1/91-8/31/92
17.	Development of Multistage Fluid Dampers	NCEER	$40,000	9/1/92-8/31/93
18.	Floor Seismic Isolation Systems	NCEER	$30,000	9/1/92-8/31/93
20.	Longevity and Reliability of Sliding Isolation Systems (Property Modification Factors)	FHWA-NCEER	$96,400	10/1/92-10/30/97
21.	Semi-active Damping and Restoring Force Devices	NCEER	$72,000	9/1/93-8/31/94
22.	Active Damping and Restoring Force/Damping Devices	NCEER	$66,500	9/1/94-3/31/96
23.	Shake Table Testing of Structures with Active Damping Devices and Development of Monograph on Passive/Semi-active Control	NCEER	$85,000	9/1/95-8/31/96

TITLE	SPONSOR	AMOUNT	AWARD PERIOD
24. Testing and Modeling of Improved Damper Configurations for Energy Dissipation Systems in Moment and Braced Frames	GRIT, Taylor Devices	$100,000	9/1/96-8/31/97
25. R-Factors for Isolated Bridges	FHWA-NCEER	$68,600	11/1/96-9/30/98
26. Rehabilitation Strategies for Buildings	NCEER	$88,000	7/1/97-10/31/98
27. Rehabilitation Strategies for Buildings	MCEER	$95,000	10/1/98-9/31/99
28. Rehabilitation Strategies for Buildings	MCEER	$93,000	9/1/99-8/31/00
29. Development of Manual for the Design and Retrofit of Bridges with Earthquake Protective Systems (with I.G. Buckle)	MCEER/ FHWA	$62,500	6/1/99-12/31/01
30. Rehabilitation Strategies for Buildings	MCEER	$90,000	7/1/00-9/30/01
31. Versatile High Performance Shake Table Facility (with M. Bruneau-PI, A.M. Reinhorn, S. Thevanayagam and A.S. Whittaker)	NSF	$6,857,715	10/1/00-9/31/04
1. Versatile High Performance Testing Facility (with M. Bruneau-PI, A.M. Reinhorn, S. Thevanayagam and A.S. Whittaker)	NSF	$4,262,388	10/1/00-9/31/04
33. Rehabilitation Strategies for Buildings	MCEER	$89,000	7/1/01-9/30/02
34. Secondary System Response in Seismically Isolated Structures	MCEER	$89,332	10/1/02-9/30/03
35. Secondary System Response in Buildings with Seismic Protective Systems	MCEER	$91,000	10/1/03-9/30/04
36. Performance of Isolators and Dampers under Service and Seismic Loading (with A.S. Whittaker)	Caltrans	$155,000	9/7/04-9/6/06
37. Secondary System Response in Buildings with Seismic Protective Systems	MCEER	$83,000	10/1/04-9/30/05
38. NEES at UB Equipment Equipment grants (with M. Bruneau, A.M. Reinhorn,	NSF	$7,373,625	10/1/04-9/30/09

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39. Secondary System Response in Buildings with Seismic Protective Systems	MCEER	$80,000	10/1/05-9/30/06
40. Secondary System Response in Buildings with Adaptive Seismic Protective Systems	MCEER	$65,000	10/1/06-9/30/07
41. Design Guidelines for Future Edition of AASHTO Seismic Isolation Guide Specifications (TEA-21 EXT-3A)	FHWA/MCEER	$99,635	9/1/04-9/30/06
42. Performance of Isolators and Damping Devices under Service and Seismic Loading Conditions (TEA-21 EXT-3C)	FHWA/MCEER	$87,795	9/1/05-9/30-07
43. Lifetime Performance of Seismic and Multi-hazard Protective Systems (SAFETEA-LU, task 3.2)	FHWA/MCEER	$68,178	6/1/07-5/31/08
44. NEESR-SG: Development of Next Generation Adaptive Seismic Protection Systems (co-PI, several investigators)	NSF	$1,600,000	8/1/08-7/31/12
45. Seismic Protective Systems for Electrical Equipment (co-PI with Andrei Reinhorn)	BPA	$450,000	1/1/09-8/31/12
46. NEES Operations at UB	NSF	$1,600,000	10/1/10-9/30/11
47. NEES Operations at UB	NSF	$1,600,000	10/1/11-9/30/12
48. NEES Operations at UB	NSF	$1,600,000	10/1/12-9/30/13
49. NEES Operations at UB	NSF	$1,600,000	10/1/13-9/30/14
50. Combined Horizontal-Vertical Seismic Isolation System for High-Voltage Power Transformers	BPA	$712,840	10/1/14-9/30/17
51. Fragility of Seismically Isolated and Non-isolated Electrical Transformers	BPA	$245,245	5/21/18-9/30/19
52. Reducing Overnight Capital Cost of Advanced Reactors Using Equipment-based Seismic Protective Technologies (co-PI with Andrew Whittaker, PI and M. Sivaselvan)	ARPA-E	$1,443,635	9/1/18-2/28/21

NEES: Network for Earthquake Engineering Simulation

NSF: National Science Foundation
NCEER: National Center for Earthquake Engineering Research
FHWA: Federal Highways Administration
GRIT: Great Regional Industrial Technology Program
MCEER: Multi-Disciplinary Center for Earthquake Engineering Research
Caltrans: California Department of Transportation
BPA: Bonneville Power Administration
ARPA-E: Advanced Research Projects Agency--Energy

PATENTS:

1. HIGHLY EFFECTIVE ENERGY DISSIPATION APPARATUS, inventor: Michael C. Constantinou, United States Patent 6,438,905, issued August 28, 2002.

2. NEGATIVE STIFFNESS DEVICE AND METHOD, inventors: M.C. Constantinou, A. Sarlis, A.M. Reinhorn, S. Nagarajaiah, D. Pasala, D. Lee, D. P. Taylor, United States Patent 8,857,110 B2, issued October 14, 2014.

3. NEGATIVE STIFFNESS BRACING SYSTEM, inventors: A. Sarlis, M.C. Constantinou, D. Lee, A.M. Reinhorn, D. P. Taylor, United States Patent 9,206,616 B2, issued December 12, 2015.

4. MOTION DAMPING SYSTEM DESIGNED FOR REDUCING OBSTRUCTION WITHIN OPEN SPACES, inventors: D. P. Taylor, M.C. Constantinou, J. C. Metzger, United States Patent 9,580,924 B1, issued February 28, 2017.

BOOKS AND BOOK CHAPTERS:

1. Soong, T.T. and Constantinou, M.C., PASSIVE AND ACTIVE STRUCTURAL VIBRATION CONTROL IN CIVIL ENGINEERING, Springer-Verlag, Wien, 1994.

2. Constantinou, M.C. and Reinhorn, A.M., SEISMIC ISOLATION AND CONTROL, in COMPUTER ANALYSIS AND DESIGN OF EARTHQUAKE RESISTANT STRUCTURES, Elsevier Applied Science, London, 1995.

3. Constantinou, M.C. and Reinhorn, A.M., TECHNIQUES IN THE NONLINEAR DYNAMIC ANALYSIS OF SEISMIC ISOLATED STRUCTURES, in STRUCTURAL DYNAMIC SYSTEMS, COMPUTATIONAL TECHNIQUES AND OPTIMIZATION, Gordon and Breach International, 1996.

4. Constantinou, M.C., Soong, T.T. and Dargush, G.F., PASSIVE ENERGY DISSIPATION SYSTEMS FOR STRUCTURAL DESIGN AND RETROFIT, Monograph, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 1998.

5. Whittaker, A. S. and Constantinou, M.C., Chapter 12, SEISMIC ENERGY DISSIPATION SYSTEMS FOR BUILDINGS, IN EARTHQUAKE ENGINEERING, Borzognia and Bertero (eds), CRC Press, Boca Raton, FL, March 2004.

6. Buckle, I., Constantinou, M., Dicleli, M. And Ghasemi, H., SEISMIC ISOLATION OF HIGHWAY BRIDGES, Special Report MCEER-06-SP07, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2006.

LECTURES:

1. PASSIVE AND ACTIVE VIBRATION CONTROL IN CIVIL ENGINEERING, Course No. 86, International Centre for Mechanical Sciences (CISM), Udine, Italy. Nine lectures on Seismic Isolation and Passive Energy Dissipation, June 14-18, 1993.

2. ENERGY DISSIPATION SYSTEMS FOR EARTHQUAKE HAZARD MITIGATION, Annual ASCE Seminar on Construction for Earthquake Hazard Mitigation, Metropolitan Section, New York, NY, February, 1995.

3. PASSIVE ENERGY DISSIPATION FOR SEISMIC/WIND DESIGN AND RETROFIT, NCEER/EERC Short Course, Seattle, WA, Irvine, CA, 1996 and 1997.

4. EXPERIMENTAL STUDY OF BRIDGE SEISMIC ISOLATION SYSTEMS, Earthquake Engineering Research Center, University of California at Berkeley, Richmond, CA, June, 1997.

5. INTRODUCTION TO PASSIVE ENERGY DISSIPATION, SEAONC Spring Seminar, Oakland, CA, March, 1998.

6. SOME NOTES ON THE DESIGN OF THREE BRIDGES, California Department of Transportation, Sacramento, CA, March, 1998.

7. DESIGN OF SEISMIC ISOLATION/ENERGY DISSIPATION SYSTEM OF APPROACH VIADUCT FOR RION-ANTIRION CABLE-STAYED BRIDGES, California Department of Transportation, Sacramento, CA, April, 1999.

8. AN INTRODUCTION TO SEISMIC ISOLATION AND SEISMIC ENERGY DISSIPATION, Seminar on Infrastructure for Earthquakes, Metropolitan Section, ASCE, Brooklyn, NY, March, 2001.

9. DAMPING SYSTEMS FOR NEW AND RETROFIT CONSTRUCTION, Keynote Lecture, FIB Symposium “Concrete Structures in Seismic Regions”, Athens, Greece, May 2003.

10. SEISMIC ISOLATION SYSTEMS, 2-day Seminar at Istanbul Kultur University, Istanbul, Turkey, May 16-17, 2003(with A. S. Whittaker).

11. SEISMIC PROTECTIVE SYSTEMS, SEONC Lecture, U.C. Berkeley, November 4, 2003.

12. EARTHQUAKE RESISTANT DESIGN WITH EMPHASIS IN NEW TECHNOLOGIES, Seminar organized by CYTA at Mediterranean Beach Hotel, Cyprus, December 13, 2003 (with A. S. Whittaker).

13. SEISMIC ISOLATION SYSTEMS, Seminar on Infrastructure for Earthquakes, Metropolitan Section, ASCE, Brooklyn, NY, March, 2004.

14. PERFORMANCE BASED ENGINEERING, 1-day Seminar at Istanbul Kultur University, Istanbul, Turkey, May 24, 2004 (with A. S. Whittaker).

15. SEISMIC PROTECTIVE SYSTEMS, Lecture at Egnatia Odos, Thessaloniki, Greece, June 4, 2004.

16. SEISMIC PROTECTIVE SYSTEMS, Keynote Lecture at Alumni Conference, University of Patras, Greece, June 6, 2004.

17. SEISMIC PROTECTIVE SYSTEMS, 1-day Seminar at Middle East Technical University, Ankara, Turkey, November 9, 2004 (with A. S. Whittaker).

18. DEVELOPMENTS IN SEISMIC PROTECTIVE SYSTEMS, Lecture at National Technical University, Athens, Greece, February 2, 2006.

19. DEVELOPMENTS IN SEISMIC PROTECTIVE SYSTEMS, Lecture at University of Cyprus, February 6, 2006.

20. SEISMIC PROTECTIVE SYSTEMS, Lecture at City University of New York, February 16, 2006.

21. SEISMIC PROTECTIVE SYSTEMS, Lecture at Beijing University of Technology, Beijing, China, April 1, 2006.

22. SEISMIC PROTECTIVE SYSTEMS, Lecture at Harbin Institute of Technology, Harbin, China, April 2, 2006.

23. DAMPING SYSTEMS FOR NEW AND RETROFIT CONSTRUCTION, Lecture at Harbin Institute of Technology, Harbin, China, April 3, 2006.

24. SEISMIC UPGRADE OF ATATURK INTERNATIONAL AIRPORT, Lecture at Harbin Institute of Technology, Harbin, China, April 3, 2006.

25. SEISMIC PROTECTIVE SYSTEMS, Lecture at Nanjing University of Technology, Nanjing, China, April 4, 2006.

26. SEISMIC PROTECTIVE SYSTEMS, Lecture at Guangzhou University, Guangzhou, China, April 5, 2006.

27. SEISMIC PROTECTIVE SYSTEMS, Lecture at Research Institute for Highways of Ministry of Communications, Beijing, China, April 6, 2006.

28. OVERVIEW OF SEISMIC PROTECTIVE SYSTEMS, 17th Mueser Rutledge Lecture, ASCE-Metropolitan Section, New York, November 15, 2007.

29. SEISMIC PROTECTIVE SYSTEMS, Keynote Lecture, Scientific Conference on Large Scale Engineering Structures for the New High Speed Railway Line in Greece, Greece, May 8, 2008.

30. SEISMIC PROTECTIVE SYSTEMS-STATE OF THE ART AND STATE OF PRACTICE, Invited Lecture, 3rd Greek Conference on Earthquake Engineering, Greece, November, 2008.

31. DEVELOPMENTS IN SEISMIC PROTECTIVE SYSTEMS, Lecture at University of Cyprus, January 27, 2009.

32. SEISMIC PROTECTIVE SYSTEMS-STATE OF THE ART AND STATE OF PRACTICE, Keynote Lecture, 16th Greek Concrete Conference, Cyprus, October 2009.

33. AN OVERVIEW OF SEISMIC ISOLATION WITH EMPHASIS ON BRIDGES, Keynote Lecture, Seventh National Conference on Earthquake Engineering, May-June 2011, Istanbul, Turkey.

34. BEHAVIOR AND MODELING OF TRIPLE FRICTION PENDULUM ISOLATORS, Invited Lecture, Los Angeles Tall Buildings Structural Design Council, Conference on ADVANCES IN STRUCTURAL DESIGN FOR SEISMIC REGIONS, May 6, 2011.

35. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW OF THE STATE OF THE ART AND STATE OF PRACTICE, Invited Lecture, American Council of Engineering Companies, New York, June 15, 2011.

36. UNIFIED LRFD-BASED PROCEDURES FOR ANALYSIS AND DESIGN OF BRIDGE BEARINGS AND SEISMIC ISOLATORS, Invited Lecture, IBSBI 2011 International Conference on Bridges, October 2011, Athens, Greece.

37. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW OF THE STATE OF PRACTICE, Invited Lecture, Municipality of Istanbul and Ministry of Health, Turkey, March 2012.

38. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW OF THE STATE OF PRACTICE, Invited Lecture, ASCE Metropolitan Section, Seminar on New Trends in Seismic Evaluation and Retrofit, New York, April 2012.

39. LRFD-BASED PROCEDURES FOR ANALYSIS AND DESIGN OF BRIDGE BEARINGS AND SEISMIC ISOLATORS, Invited Lecture, CSRN–NEES Workshop on the Seismic Isolation and Damping of Bridge Structures, Vancouver, April 2012.

40. SEISMIC PROTECTIVE SYSTEMS, Invited Lecture, Mus Alparslan University, Mus, Turkey, May 2012.

41. SEISMIC PROTECTIVE SYSTEMS, Invited Lecture at the invitation of the Governor of Van, Van, Turkey, May 2012.

42. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW OF THE STATE OF ART AND PRACTICE, Invited Lecture at the inauguration of Professor Oscar Ramirez as President of the Technological University of Panama, Panama, February 2013.

43. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW, Invited Lecture at ESPE University, Quito, Ecuador, June 2013.

44. HISTORY OF SEISMIC ISOLATION, Invited Lecture at ESPE University, Quito, Ecuador, June 2013.

45. BEHAVIOR AND MODELING OF TRIPLE FRICTION PENDULUM ISOLATORS, Invited Lecture at ESPE University, Quito, Ecuador, June 2013.

46. SOME NOTES ON THE DESIGN OF SEISMICALLY ISOLATED BRIDGES, Invited Lecture at ESPE University, Quito, Ecuador, June 2013.

47. PERFORMANCE OF BOLU VIDAUCT IN THE DUCZE EARTHQUAKE, Invited Lecture at ESPE University, Quito, Ecuador, June 2013.

48. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW, Invited Lecture at University of San Francisco, Quito, Ecuador, June 2013.

49. HISTORY OF SEISMIC PROTECTIVE SYSTEMS, Invited Lecture at Kocaeli Chamber of Commerce, Kocaeli, Turkey, December 2013.

50. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING AND SIMILARITY, Invited Lecture at ITU Workshop On Base Isolation Systems, Istanbul, Turkey, December 2013.

51. HISTORY OF SEISMIC PROTECTIVE SYSTEMS, University of Catania and Catania Engineering Association, Catania, Italy, March 2016.

52. PERFORMANCE OF SEISMICALLY ISOLATED STRUCTURES, Invited Lecture at ESPE University, Quito, Ecuador, January 2018.

53. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING AND SIMILARITY, Invited Lecture at ESPE University, Quito, Ecuador, January 2018.

54. RELIABILITY OF DESIGN OF SEISMICALLY ISOLATED BUILDINGS, Keynote Lecture, ICONHIC 2nd International Conference on Natural Hazards & Infrastructure, Chania, Greece, June 2019.

55. APPLICATION OF SEISMIC PROTECTIVE SYSTEMS AND THE SIGNIFICANCE OF TESTING, PEER REVIEW AND INSPECTION: A COLLECTION OF EXAMPLES FROM THE EXPERIENCE OF THE PRESENTER, Lecture at University of Patras, Greece after receiving Honorary Doctorate Degree, July 3, 2019.

56. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING AND SIMILARITY, Keynote Lecture at 4th Panhellenic Conference of Seismic Engineering and Seismology, September 5, 2019.

57. SEISMIC PROTECTIVE SYSTEMS DEVELOPMENT AND APPLICATIONS IN THE UNITED STATES, Invited Lecture, XVI Mexican Earthquake Engineering National Symposium, November 20, 2020.

58. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING AND SIMILARITY, Invited Lecture at Third Kenji Ishihara Colloquium Series on Earthquake Engineering, EERI, University of California, San Diego, May 14, 2021.

59. HISTORY OF SEISMIC PROTECTIVE SYSTEMS, 500BC to 2021, Keynote Lecture at International Conference in Civil Engineering and Architecture, Trapzon University, Turkey, December 10, 2021.

60. SEISMIC PROTECTIVE SYSTEMS-AN OVERVIEW OF THE STATE OF ART AND PRACTICE, Invited Lecture at Recent Advances in Experimental and Numerical Investigations on Seismic Isolation Devices, University of Pavia, Italy, March 25, 2022.

61. SEISMIC ISOLATION: AN OVERVIEW OF CONCEPTS, IMPLEMENTATION AND RESEARCH, Invited Lecture at DUO-IABSE Webinar on Seismic Isolation (other presenter was Mr. Zhu Zhongyi, Chief Structural Engineer for the design of the Beijing Daxing International Terminal), May 13, 2022.

62. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING AND SIMILARITY, Keynote Lecture at Colombian Congress of Earthquake Engineering (X-CNIS), June 16, 2022.

63. TESTING OF SEISMIC ISOLATION HARDWARE: SIGNIFICANCE, SCALING, SIMILARITY AND PERFORMANCE-BASED SPECIFICATIONS, Keynote Lecture at 17th World Conference on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, Torino, Italy, September 13, 2022.

64. EXAMPLES OF RETROFIT OF BUILDINGS, BRIDGES AND THE INFRASTRUCTURE USING SEISMIC ISOLATION, Keynote Lecture at 5th Panhellenic Conference of Seismic Engineering and Seismology, October 22, 2022.

65. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING, SIMILARITY AND PERFORMANCE-BASED SPECIFICATIONS, Lecture for Japanese researchers and engineers in Seismic Protective Systems, January 13, 2023.

66. HISTORY OF SEISMIC PROTECTIVE SYSTEMS 500BC TO 2023, Keynote Lecture at 2nd Hybrid (physical-virtual real-time) Workshop in "Innovative Seismic Protection and Structural/Community Resilience", Democritus University of Thrace, Greece, September 3, 2023.

67. EXAMPLES OF RETROFIT OF BUILDINGS, BRIDGES AND THE INFRASTRUCTURE USING SEISMIC ISOLATION, Keynote Lecture at 2nd Hybrid (physical-virtual real-time) Workshop in "Innovative Seismic Protection and Structural/Community Resilience", Democritus University of Thrace, Greece, September 3, 2023.

68. THREE-DIMENSIONAL SEISMIC ISOLATION: DEVELOPMENTS, CHALLENGES AND BENEFITS, Keynote Lecture at 2nd Hybrid (physical-virtual real-time) Workshop in "Innovative Seismic Protection and Structural/Community Resilience", Democritus University of Thrace, Greece, September 3, 2023.

69. DEVELOPMENT AND IMPLEMENTATION OF A THREE-DIMENSIONAL SEISMIC ISOLATION SYSTEM, Keynote Lecture at 18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures, Antalya, Türkiye, November 7, 2023.

70. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING,

SIMILARITY AND PERFORMANCE-BASED SPECIFICATIONS, Keynote Lecture at Hybrid (physical-virtual real-time) 69th International Conference on Vibroengineering, Lviv, Ukraine, September 26, 2024.

71. TESTING OF SEISMIC PROTECTIVE SYSTEM HARDWARE: SIGNIFICANCE, SCALING, SIMILARITY AND PERFORMANCE-BASED SPECIFICATIONS, Keynote Lecture at ANEIC Manizales IX Simposio Nacional de Actualidad y Tendencia en la ing. Civil, Colombia, February 28, 2025.

PUBLICATIONS:

A. **Refereed Journals**

1. Constantinou, M. C. and Tadjbakhsh, I., "PROBABILISTIC OPTIMUM BASE ISOLATION OF STRUCTURES", Journal of Structural Engineering, ASCE, Vol. 109, No.3, March 1983, pp. 676-689.

2. Constantinou, M.C. and Tadjbakhsh, I., "OPTIMUM DESIGN OF A FIRST STORY DAMPING SYSTEM", Computers and Structures, Vol. 17, No. 2, 1983, pp. 305-310.

3. Constantinou, M.C. and Tadjbakhsh, I., "RESPONSE OF A SLIDING STRUCTURE TO FILTERED RANDOM EXCITATION", Journal of Structural Mechanics, Vol. 12, No. 3, 1984, pp. 401-418

4. Constantinou, M.C. and Tadjbakhsh, I., "OPTIMUM DESIGN OF A BASE ISOLATION SYSTEM WITH FRICTIONAL ELEMENTS," Earthquake Engineering and Structural Dynamics, Vol. 12, 1984, pp. 203-214.

5. Constantinou, M.C., Gazetas, G., and Tadjbakhsh, I., "STOCHASTIC SEISMIC SLIDING OF RIGID MASS SUPPORTED THROUGH NON-SYMMETRIC FRICTION', Earthquake Engineering and Structural Dynamics, Vol. 12, 1984, pp. 777-793.

6. Constantinou, M.C. and Gazetas, G., "TORSIONAL VIBRATION ON ANISOTROPIC HALFSPACE", Journal of Geotechnical Engineering, ASCE, Vol. 110, No.11, 1984, pp. 1549-1558. Nominated for the Norman and J.R. Croes Medals of ASCE.

7. Constantinou, M.C. and Tadjbakhsh, I., "OPTIMUM CHARACTERISTICS OF ISOLATED STRUCTURES", Journal of Structural Engineering, ASCE, Vol. 111, No. 12, 1985, pp. 2733-2750.

8. Constantinou, M.C., "VIBRATION STATISTICS OF THE DUFFING OSCILLATOR", Journal of Soil Dynamics and Earthquake Engineering, Vol. 4, 1985, pp. 221-223.

9. Constantinou, M.C. and Tadjbakhsh, I., "HYSTERETIC DAMPERS IN BASE ISOLATION: RANDOM APPROACH", Journal of Structural Engineering, ASCE, Vol.111, No. 4, 1985, pp. 705-721.

10. Constantinou, M.C. and Gazetas, G., "LOADING OF ANISOTROPIC QUARTER PLANE", Journal of Engineering Mechanics, ASCE, Vol. 112, No. 10, 1986, pp. 1021-1040.

11. Constantinou, M.C. and Greenleaf, R.S., "STRESS SYSTEMS IN ORTHOTROPIC QUARTER PLANE", Journal of Engineering Mechanics, ASCE, Vol. 113, No. 11, November 1987, pp. 1720-1738.

12. Constantinou, M.C., Caccese, J. and Harris, H.G., "FRICTIONAL CHARACTERISTICS OF TEFLON-STEEL INTERFACES UNDER DYNAMIC CONDITIONS" Earthquake Engineering and Structural Dynamics, Vol. 15, 1987, pp. 751-759.

13. Constantinou, M.C., A SIMPLIFIED ANALYSIS PROCEDURE FOR BASE-ISOLATED STRUCTURES ON FLEXIBLE FOUNDATION," Earthquake Engineering and Structural Dynamics, Vol. 15, 1987, pp. 963-983.

14. Constantinou M.C.,and Kneifati, M.C., "DYNAMICS OF SOIL-BASE-ISOLATED-STRUCTURE SYSTEMS," Journal of Structural Engineering, ASCE, Vol. 114, No.1, 1988, pp.211-221.

15. Siddiqui, F.M.A. and Constantinou, M.C., "SIMPLIFIED ANALYSIS METHOD FOR MULTISTORY BASE-ISOLATED STRUCTURES ON VISCOELASTIC HALFSPACE," Earthquake Engineering and Structural Dynamics, Vol. 18, No. 1, 1989, pp. 64-78.

16. Mokha, A., Constantinou, M.C. and Reinhorn, A.M. "TEFLON BEARINGS IN BASE ISOLATION. PART 1: TESTING," Journal of Structural Engineering, ASCE, Vol. 116, No. 2, 1990, pp. 438-454.

17. Constantinou, M.C., Mokha, A.M. and Reinhorn, A.M., "TEFLON BEARINGS IN BASE ISOLATION. PART 2: MODELING," Journal of Structural Engineering, ASCE, Vol. 116, No. 2, 1990, pp. 455-474.

18. Papageorgiou, A. and Constantinou, M.C., "RESPONSE OF SLIDING STRUCTURES WITH RESTORING FORCE TO STOCHASTIC EXCITATION," Probabilistic Engineering Mechanics, Vol. 5, No. 1, 1990, pp. 19-26.

19. Constantinou, M.C. and Papageorgiou, A., "STOCHASTIC RESPONSE OF PRACTICAL SLIDING ISOLATION SYSTEMS," Probabilistic Engineering Mechanics, Vol. 5, No. 1, 1990, pp. 27-34.

20. Chen, Y.Q. and Constantinou, M.C., "USE OF TEFLON SLIDERS IN A MODIFICATION OF THE CONCEPT OF SOFT FIRST STORY," Engineering Structures, Vol. 12, No. 4, 1990, pp. 243-253.

21. Mokha, A., Constantinou, M.C. and Reinhorn, A.M., "FURTHER RESULTS ON THE FRICTIONAL PROPERTIES OF TEFLON BEARINGS," Journal of Structural Engineering, ASCE, Vol. 117, No. 2, 1991, pp. 622-626.

22. Makris, N., and Constantinou, M.C., "ANALYSIS OF MOTION RESISTED BY FRICTION I: CONSTANT COULOMB AND LINEAR/COULOMB FRICTION", Mechanics of Structures and Machines, Vol. 19, No. 4, 1991, pp. 487-510.

23. Makris, N. and Constantinou, M.C., "ANALYSIS OF MOTION RESISTED BY FRICTION II: VELOCITY DEPENDENT FRICTION", Mechanics of Structures and Machines, Vol. 19, No.4, 1991, pp. 511-536.

24. Mokha, A., Constantinou M.C., Reinhorn, A.M. and Zayas, V., "EXPERIMENTAL STUDY OF FRICTION PENDULUM ISOLATION SYSTEM", Journal of Structural Engineering, ASCE, Vol. 117, No. 4, 1991, pp. 1203-1219.

25. Constantinou, M.C., Mokha, A. and Reinhorn, A.M., "STUDY OF A SLIDING BEARING AND HELICAL STEEL SPRING ISOLATION SYSTEM," Journal of Structural Engineering, ASCE, Vol. 117, No. 4, 1991, pp. 1259-1277.

26. Constantinou, M.C., Reinhorn, A.M., Mokha, A.S. and Watson, R., "DISPLACEMENT CONTROL DEVICE FOR BASE-ISOLATED BRIDGES," Earthquake Spectra Vol. 7, No. 2, May 1991, pp. 179-200.

27. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "NONLINEAR DYNAMIC ANALYSIS OF THREE-DIMENSIONAL BASE ISOLATED STRUCTURES", Journal of Structural Engineering, ASCE, Vol. 117, No. 7, 1991, pp. 2035-2054.

28. Makris, N. and Constantinou, M.C., "FRACTIONAL DERIVATIVE MAXWELL MODEL FOR VISCOUS DAMPERS," Journal of Structural Engineering, ASCE, Vol. 117, No. 9, 1991, pp. 2708-2724.

29. Constantinou, M.C., Kartoum, A. and Kelly, J.M., "ANALYSIS OF COMPRESSION OF HOLLOW CIRCULAR ELASTOMERIC BEARINGS," Engineering Structures, Vol. 14, No. 2, 1992, pp. 103-111.

30. Juhn, G., Manolis, G., Constantinou, M.C. and Reinhorn, A.M., "EXPERIMENTAL INVESTIGATION OF SECONDARY SYSTEMS IN A BASE-ISOLATED STRUCTURE," Journal of Structural Engineering, ASCE, Vol. 118, No. 8, 1992.

31. Juhn, G., Manolis, G.D. and Constantinou, M.C., "STOCHASTIC RESPONSE OF SECONDARY SYSTEMS IN BASE-ISOLATED STRUCTURES," Probabilistic Engineering Mechanics, Vol. 7, No. 2, 1992, pp. 91-102.

32. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C. "EXPERIMENTAL STUDY OF SLIDING BASE ISOLATED STRUCTURES WITH UPLIFT RESTRAINT," Journal of Structural Engineering, ASCE, Vol. 118 (6), 1992, pp. 1512-1529.

33. Makris, N. and Constantinou, M.C., "SPRING-VISCOUS DAMPER SYSTEMS FOR COMBINED SEISMIC AND VIBRATION ISOLATION," Earthquake Engineering and Structural Dynamics, Vol. 21, (8), 1992, pp. 649-664.

34. Constantinou, M.C., Kartoum, A., Reinhorn, A.M. and Bradford, P., "SLIDING ISOLATION SYSTEM FOR BRIDGES: EXPERIMENTAL STUDY," Earthquake Spectra, Vol. 8 (3), 1992, pp. 321-344.

35. Kartoum, A., Constantinou, M.C. and Reinhorn, A.M., "SLIDING ISOLATION SYSTEM FOR BRIDGES: ANALYTICAL STUDY," Earthquake Spectra, Vol. 8 (3), 1992, pp. 345-372.

36. Mokha, A., Constantinou, M.C. and Reinhorn, A.M., "VERIFICATION OF FRICTION MODEL OF TEFLON BEARINGS UNDER TRIAXIAL LOAD," Journal of Structural Engineering, ASCE, Vol. 119, No. 1, 1993, pp. 240-261.

37. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "TORSIONAL COUPLING IN BASE ISOLATED STRUCTURES: SLIDING ISOLATION SYSTEMS," Journal of Structural Engineering, ASCE, Vol. 119, No. 1, 1993, pp. 130-149.

38. Demetriades, G.F., Constantinou, M.C. and Reinhorn, A.M., "STUDY OF WIRE ROPE SYSTEMS FOR SEISMIC PROTECTION OF EQUIPMENT IN BUILDINGS," Engineering Structures, Vol. 15, No. 5, 1993, pp. 321-334.

39. Makris, N. and Constantinou, M.C., "MODELS OF VISCOELASTICITY WITH COMPLEX ORDER DERIVATIVES," J. Engng. Mechanics, ASCE, Vol. 119, No. 7, 1993, pp. 1453-1464.

40. Makris, N., Dargush, G.F. and Constantinou, M.C., "DYNAMIC ANALYSIS OF GENERALIZED VISCOELASTIC FLUIDS," J. Engng. Mechanics, ASCE, Vol. 119, No.8, 1993, pp.1663-1679.

41. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C. "TORSION IN BASE ISOLATED STRUCTURES WITH ELASTOMERIC BEARINGS," J. Struct. Engng., ASCE, Vol. 119, No. 10, 1993, pp. 2932-2951.

42. Tsopelas, P., Nagarajaiah, S., Constantinou, M.C. and Reinhorn, A.M., "NONLINEAR DYNAMIC ANALYSIS OF MULTIPLE BUILDING BASE ISOLATED STRUCTURES," J. Computers and Structures, Vol. 50, No. 1, 1994, pp. 47-57.

43. Makris, N., Constantinou, M.C. and Dargush, G., "ANALYTICAL MODEL OF VISCOELASTIC FLUID DAMPERS," J. Struct. Engng., ASCE, Vol. 119, No. 11, 1993, pp. 3310-3325.

44. Constantinou, M.C. and Symans, M.D., "SEISMIC RESPONSE OF STRUCTURES WITH SUPPLEMENTAL DAMPING," Structural Design of Tall Buildings, Vol. 2, No. 2, 1993, pp. 77-92.

45. Constantinou, M.C. and Symans, M.D., "EXPERIMENTAL STUDY OF SEISMIC RESPONSE OF BUILDINGS WITH SUPPLEMENTAL FLUID DAMPERS," Structural Design of Tall Buildings, Vol. 2, No. 2, 1993, pp. 93-132.

46. Taylor, D.P. and Constantinou, M.C., "TESTING PROCEDURES FOR HIGH OUTPUT FLUID VISCOUS DAMPERS USED IN BUILDING AND BRIDGE STRUCTURES TO DISSIPATE SEISMIC ENERGY," Shock and Vibration, Vol. 2. No. 5, 1995, pp. 373-381.

47. Makris, N., Dargush, G.F. and Constantinou, M.C., "DYNAMIC ANALYSIS OF VISCOELASTIC FLUID DAMPERS," Journal of Engineering Mechanics, ASCE, Vol. 121, No. 10, 1995, pp. 1114-1121.

48. Mokha, A.S., Amin, N., Constantinou, M.C. and Zayas, V., "SEISMIC ISOLATION RETROFIT OF A LARGE HISTORIC BUILDING IN THE UNITED STATES," Journal of Structural Engineering, ASCE, Vol. 122, No. 3, 1996, pp. 298-308.

49. Tsopelas, P., Constantinou, M.C., Kim, Y-S. and Okamoto, S., "EXPERIMENTAL STUDY OF FPS SYSTEM IN BRIDGE SEISMIC ISOLATION," Earthquake Engineering and Structural Dynamics, Vol. 25, No. 1, 1996, pp. 65-78.

50. Tsopelas, P., Constantinou, M.C., Okamoto, S., Fujii, S. and Ozaki, D., "EXPERIMENTAL STUDY OF BRIDGE SEISMIC SLIDING ISOLATION SYSTEMS," Engineering Structures, Vol.18, No. 4, 1996, pp. 301-310.

51. Tsopelas, P. and Constantinou, M.C., "STUDY OF ELASTOPLASTIC BRIDGE SEISMIC ISOLATION SYSTEM", Journal of Structural Engineering, ASCE, Vol. 123, No. 4, 1997, pp. 489-498.

52. Symans, M.D. and Constantinou, M.C., "SEISMIC TESTING OF A BUILDING STRUCTURE WITH A SEMI-ACTIVE FLUID DAMPER CONTROL SYSTEM," Earthquake Engineering and Structural Dynamics, Vol. 26, 1997, pp. 759-777.

53. Whittaker, A.S., Constantinou, M.C. and Tsopelas, P., "DISPLACEMENT ESTIMATES FOR PERFORMANCE-BASED SEISMIC DESIGN", Journal of Structural Engineering, ASCE, Vol. 124, No. 8, 1998, pp. 905-912.

54. Whittaker, A.S., Constantinou, M.C. and Tsopelas, P., "NONLINEAR PROCEDURES FOR SEISMIC EVALUATION OF BUILDINGS", Structural Design of Tall Buildings, Vol. 8, 1999, pp. 1-13.

55. Symans, M.D. and Constantinou, M.C., "EXPERIMENTAL TESTING AND ANALYTICAL MODELING OF SEMI-ACTIVE FLUID DAMPERS FOR SEISMIC PROTECTION," Journal of Intelligent Material Systems and Structures, Vol. 8, 1998, pp. 644-657.

56. Symans, M.D. and Constantinou, M.C., "PASSIVE FLUID VISCOUS DAMPING SYSTEMS FOR SEISMIC ENERGY DISSIPATION", ISET Journal of Earthquake Technology, Vol.35, No. 4, 1998, pp. 185-206.

57. Symans, M.D. and Constantinou, M.C., "SEMI-ACTIVE SYSTEMS FOR SEISMIC PROTECTION OF STRUCTURES: A STATE-OF-THE-ART REVIEW," Engineering Structures, Vol. 21, 1999, pp. 469-487.

58. Whittaker, A.S. and Constantinou, M.C., "SUPPLEMENTAL DAMPING FOR NEW AND RETROFIT CONSTRUCTION", Revista de Ingenieria Sismica, Vol. 61, Sociedad Mexicana de Ingenieria Sismica A. C., Mexico City, Dec. 1999.

59. Constantinou, M.C., Tsopelas, P., Hammel, W. and Sigaher, A.N., "TOGGLE-BRACE-DAMPER SEISMIC ENERGY DISSIPATION SYSTEMS", Journal of Structural Engineering, ASCE, Vol. 127, No. 2, Feb. 2001, pp.105-112.

60. Ramirez, O.M., Constantinou, M.C., Gomez, J., Whittaker, A.S., and Chrysostomou, C.Z., "EVALUATION OF SIMPLIFIED METHODS OF ANALYSIS OF YIELDING STRUCTURES WITH DAMPING SYSTEMS," Earthquake Spectra, Vol. 18, No. 3, Aug. 2002, pp. 501-530.

61. Ramirez, O.M., Constantinou, M.C., Whittaker, A.S., Kircher, C.A., and Chrysostomou, C.Z., "ELASTIC AND INELASTIC SEISMIC RESPONSE OF BUILDINGS WITH DAMPING SYSTEMS," Earthquake Spectra, Vol. 18, No. 3, Aug. 2002, pp. 531-547.

62. Sigaher, A.N. and Constantinou, M.C., "SCISSOR-JACK-DAMPER ENERGY DISSIPATION SYSTEM", Earthquake Spectra, Vol.19, No.1, Feb. 2003, pp. 133-158.

63. Roussis, P.C., Constantinou, M.C., Erdik, M., Durukal, E.and Dicleli, M., "ASSESSMENT OF PERFORMANCE OF SEISMIC ISOLATION SYSTEM OF BOLU VIADUCT," Journal of Bridge Engineering, ASCE, Vol. 8, No.4, July 2003, pp. 182-190.

64. Whittaker, A.S., Constantinou, M.C., Ramirez, O.M., Johnson, M.W. and Chrysostomou, C.Z., "EQUIVALENT LATERAL FORCE AND MODAL ANALYSIS PROCEDURES OF THE 2000 NEHRP PROVISIONS FOR BUILDINGS WITH DAMPING SYSTEMS," Earthquake Spectra, Vol. 19, No.4, Nov. 2003, 959-980.

65. Ramirez, O.M., Constantinou, M.C., Whittaker, A.S., Kircher, C.A., Johnson, M.W. and Chrysostomou, C.Z., "VALIDATION OF 2000 NEHRP PROVISIONS EQUIVALENT LATERAL FORCE AND MODAL ANALYSIS PROCEDURES FOR BUILDINGS WITH DAMPING SYSTEMS," Earthquake Spectra, Vol. 19, No.4, Nov. 2003, 981-999.

66. Pavlou, E. and Constantinou, M.C., "RESPONSE OF ELASTIC AND INELASTIC STRUCTURES WITH DAMPING SYSTEMS TO NEAR-FIELD AND SOFT-SOIL GROUND MOTIONS," Engineering Structures, Vol. 26, 2004, 1217-1230.

67. Kasalanati, A. and Constantinou, M.C., "TESTING AND MODELING OF PRESTRESSED ISOLATORS", Journal of Structural Engineering, ASCE, Vol. 131, No.6, 2005, 857-866.

68. Dicleli, M., Mansour, M.Y. and Constantinou, M.C., "EFFICIENCY OF FPS SYSTEM FOR SEISMIC RETROFITTING OF HEAVY SUBSTRUCTURED BRIDGES", Journal of Bridge Engineering, ASCE, Vol. 10, No. 4, 2005, 429-441.

69. Roussis, P. C. and Constantinou, M. C., "UPLIFT-RESTRAINING FRICTION PENDULUM SEISMIC ISOLATION SYSTEM," Earthquake Engineering and Structural Dynamics, Vol. 35, No.5, 2006, 577-593.

70. Roussis, P. C. and Constantinou, M. C., "EXPERIMENTAL AND ANALYTICAL STUDIES OF STRUCTURES SEISMICALLY ISOLATED WITH AN UPLIFT-RESTRAINING FRICTION PENDULUM SYSTEM," Earthquake Engineering and Structural Dynamics, Vol. 35, No. 5, 2006, 595-611.

71. Pavlou, E. and Constantinou, M.C., "RESPONSE OF NONSTRUCTURAL COMPONENTS IN STRUCTURES WITH DAMPING SYSTEMS, "Journal of Structural Engineering, ASCE, Vol. 132, No. 7, 2006, 1108-1117.

72. Fenz, D. and Constantinou, M.C., "BEHAVIOR OF DOUBLE CONCAVE FRICTION PENDULUM BEARING," Earthquake Engineering and Structural Dynamics, Vol. 35, No. 11, 2006, 1403-1424.

73. Huang Y-N, Whittaker, A.S, Constantinou, M.C. and Malushte, S., "SEISMIC DEMANDS ON SECONDARY SYSTEMS IN BASE-ISOLATED NUCLEAR POWER PLANTS", Earthquake Engineering and Structural Dynamics, Vol. 27, No. 12, 2007, 1741-1761.

74. Warn, G. Whittaker, A.S. and Constantinou, M.C., "VERTICAL STIFFNESS OF ELASTOMERIC AND LEAD-RUBBER SEISMIC ISOLATION BEARINGS", J. Structural Engineering, ASCE, Vol.133, No. 9, 2007, 1227-1236.

75. Fenz, D. and Constantinou, M.C., "SPHERICAL SLIDING ISOLATION BEARINGS WITH ADAPTIVE BEHAVIOR: THEORY," Earthquake Engineering and Structural Dynamics, Vol. 37, No. 2, 2008, 163-183.

76. Fenz, D. and Constantinou, M.C., "SPHERICAL SLIDING ISOLATION BEARINGS WITH ADAPTIVE BEHAVIOR: EXPERIMENTAL VERIFICATION", Earthquake Engineering and Structural Dynamics, Vol. 37, No. 2, 2008, 185-205.

77. Fenz, D. and Constantinou, M.C., "MODELLING TRIPLE FRICTION PENDULUM BEARINGS FOR RESPONSE-HISTORY ANALYSIS", Earthquake Spectra, Vol. 24, No. 4, 2009, 1011-1028.

78. Marin-Artiega, C.C., Whittaker, A.S. and Constantinou, M.C., "EXPERIMENTAL STUDY OF THE XY-FRICTION PENDULUM BEARING FOR BRIDGE APPLICATIONS, ASCE, J. Bridge Engineering, Vol. 14, No. 3, May/June 2009, 193-202

79. Chirstovasilis, I.G., Filiatrault, A., Constantinou, M.C. and Wanitkorkul, A., "INCREMENTAL DYNAMIC ANALYIS OF WOODFRAME BUILDINGS", Earthquake Engineering and Structural Dynamics, Vol. 38, No. 4, 2009, 477-496.

80. Kalpakidis, I.V. and Constantinou, M.C., "EFFECTS OF HEATING ON THE BEHAVIOR OF LEAD-RUBBER BEARINGS. I: THEORY," ASCE, J. Structural Engineering, Vol. 135, No.12, 2009, 1440-1449.

81. Kalpakidis, I.V. and Constantinou, M.C., "EFFECTS OF HEATING ON THE BEHAVIOR OF LEAD-RUBBER BEARINGS. II: VERIFICATION OF THEORY," ASCE, J. Structural Engineering, Vol. 135, No.12, 2009, 1450-1461.

82. Tsopelas, P.C., Roussis, P.C. and Constantinou, M.C., "NONLINEAR DYNAMIC ANALYSIS OF MULTI-BASE SEISMICALLY ISOLATED STRUCTURES WITH UPLIFT POTENTIAL I: FORMULATION", Earthquake Engineering and Engineering Vibration, Vol. 8, No. 3, 2010, 421-431.

83. Fadi, F. and Constantinou, M.C., "EVALUATION OF SIMPLIFIED METHODS OF ANALYSIS FOR STRUCTURES WITH TRIPLE FRICTION PENDULUM ISOLATORS," Earthquake Engineering and Structural Dynamics, Vol. 39, No. 1, 2010, 5-22.

84. Roussis, P.C., Tsopelas, P.C. and Constantinou, M.C., "NONLINEAR DYNAMIC ANALYSIS OF MULTI-BASE SEISMICALLY ISOLATED STRUCTURES WITH UPLIFT POTENTIAL II: VERIFICATION EXAMPLES", Earthquake Engineering and Engineering Vibration, Vol. 9, No. 1, 2010, 83-91.

85. Kalpakidis, I.V., Constantinou, M.C. and Whittaker, A.S., "EFFECTS OF LARGE CUMULATIVE TRAVEL ON THE BEHAVIOR OF LEAD-RUBBER SEISMIC ISOLATION BEARINGS," ASCE, J. Structural Engineering, Vol. 136, No.5, 2010, 491-501.

86. Kalpakidis, I.V., Constantinou, M.C. and Whittaker, A.S., "MODELING STRENGTH DEGRADATION IN LEAD-RUBBER BEARINGS UNDER EARTHQUAKE SHAKING," Earthquake Engineering and Structural Dynamics, Vol. 39, No. 13, 2010, 1533-1549.

87. Kalpakidis, I.V. and Constantinou, M.C., "PRINCIPLES OF SCALING AND SIMILARITY FOR TESTING OF LEAD-RUBBER BEARINGS," Earthquake Engineering and Structural Dynamics, Vol. 39, No. 13, 2010, https://doi.org/10.1002/eqe.1041 , 1551-1568.

88. Ozdemir, G. and Constantinou, M.C., "EVALUATION OF EQUIVALENT LATERAL FORCE PROCEDURE IN ESTIMATING ISOLATOR DISPLACEMENTS", Soil Dynamics and Earthquake Engineering, Vol. 30, 2010, 1036-1042.

89. Ates, S. and Constantinou, M.C., "EXAMPLE OF APPLICATION OF RESPONSE HISTORY ANALYSIS FOR SEISMICALLY ISOLATED CURVED BRIDGES ON DRILLED SHAFT WITH SPRINGS REPRESENTING SOIL", Soil Dynamics and Earthquake Engineering, Vol. 31, 2010, 334-350.

90. Basu, D., Whittaker, A. S. and Constantinou, M. C.,"ESTIMATING ROTATIONAL COMPONENTS OF GROUND MOTION USING DATA RECORDED AT A SINGLE STATION," Journal of Engineering Mechanics, ASCE, Vol. 138, No. 9, 2012, 1141-1156.

91. Pasala D. T. R., Sarlis A. A., Nagarajaiah S., Reinhorn A. M., Constantinou M. C. and Taylor D., "ADAPTIVE NEGATIVE STIFFNESS: A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION", Journal of Structural Engineering, ASCE, Vol. 139, No. 7, 2013, 1112-1123.

92. Sarlis A. A., Pasala D. T. R., Constantinou M. C., Reinhorn A. M., Nagarajaiah S. and Taylor D., "NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION OF STRUCTURES", Journal of Structural Engineering, ASCE, Vol. 139, No. 7, 2013, 1124-1133.

93. Basu, D., Whittaker, A. S. and Constantinou, M. C., "EXTRACTING ROTATIONAL COMPONENTS OF GROUND MOTION USING DATA RECORDED AT MULTIPLE STATIONS," Earthquake Engineering and Structural Dynamics, Vol. 42, 2013, 451-468.

94. Pant, D., Constantinou, M.C. and Wijeyewickrema, A.C., "RE-EVALUATION OF EQUIVALENT LATERAL FORCE PROCEDURE FOR PREDICTION OF DISPLACEMENT DEMAND IN SEISMICALLY ISOLATED STRUCTURES", Engineering Structures, Vol. 52, 2013, 455-465.

95. Ray, T., Sarlis, A. A., Reinhorn, A. M., and Constantinou, M. C., "HYSTERETIC MODELS FOR SLIDING BEARINGS WITH VARYING FRICTIONAL FORCE", Earthquake Engineering and Structural Dynamics, Vol. 42, Issue 15, 2013, 2341–2360.

96. Wolff, E.D., Ipek, C., Constantinou, M. C., and Morillas Romero, L., "TORSIONAL RESPONSE OF SEISMICALLY ISOLATED STRUCTURES REVISITED", Engineering Structures, Vol. 59, 2014, 462-468.

97. Basu, D., Constantinou, M. C. and Whittaker, A. S., "AN EQUIVALENT ACCIDENTAL ECCENTRICITY TO ACCOUNT FOR THE EFFECTS OF TORSIONAL GROUND MOTION ON STRUCTURES", Engineering Structures, Vol. 69, 2014, 1-11.

98. Pasala D. T. R., Sarlis A. A., Reinhorn A. M., Nagarajaiah S., Constantinou M. C. and Taylor D., "SIMULATED BILINEAR-ELASTIC BEHAVIOR IN A SDOF ELASTIC STRUCTURE USING NEGATIVE STIFFNESS DEVICE: EXPERIMENTAL AND ANALYTICAL STUDY", Journal of Structural Engineering, ASCE, Vol. 140, No. 2, 2014. **2015 ASCE Moisseiff Award**.

99. Pasala D. T. R., Sarlis A. A., Reinhorn A. M., Nagarajaiah S., Constantinou M. C. and Taylor D., "APPARENT WEAKENING IN SDOF YIELDING STRUCTURES USING A NEGATIVE STIFFNESS DEVICE: EXPERIMENTAL AND ANALYTICAL STUDY", Journal of Structural Engineering, ASCE, Vol. 141, No. 4, 2015.

100. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Pasala, D.T.R. and Sarlis, A.A.," EXPERIMENTAL SHAKE TABLE TESTING OF A MECHANICAL ADAPTIVE PASSIVE NEGATIVE STIFFNESS DEVICE WITHIN A QUARTER-SCALED BRIDGE MODEL", Earthquake Spectra, 2015, Vol. 31, No.4, 2163-2194.

101. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Pasala, D.T.R. and Sarlis, A.A., "PERFORMANCE EVALUATION OF ADAPTIVE NEGATIVE STIFFNESS DEVICES FOR SEISMIC RESPONSE CONTROL OF BRIDGE STRUCTURES VIA EXPERIMENTAL SHAKE TABLE TESTS AND ASSOCIATED NUMERICAL SIMULATIONS" Journal of Earthquake Engineering, 2015, Vol. 19, No.2, 249-276.

102. Kumar, M.., Whittaker, A. S. and Constantinou, M. C., "AN ADVANCED NUMERICAL MODEL OF ELASTOMERIC SEISMIC ISOLATION BEARINGS," Earthquake Engineering and Structural Dynamics, Vol. 43, 2014, 1955-1974.

103. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Pasala, D.T.R. and Sarlis, A.A.," NUMERICAL SIMULATIONS OF A HIGHWAY BRIDGE STRUCTURE EMPLOYING PASSIVE NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION" Earthquake Engineering and Structural Dynamics, Vol. 44, 2015, 973-995.

104. Wolff, E.D., Ipek, C., Constantinou, M. C., and Tapan, M.., "EFFECT OF VISCOUS DAMPING DEVICES ON THE RESPONSE OF SEISMICALLY ISOLATED STRUCTURES", Earthquake Engineering and Structural Dynamics, Vol. 44, 2015, https://doi.org/10.1002/eqe.2464 185-198.

105. Kumar, M., Whittaker, A. S. and Constantinou, M. C., " CHARACTERIZING FRICTION IN SLIDING ISOLATION BEARINGS," Earthquake Engineering and Structural Dynamics, Vol. 44 (9), 2015, 1409-1425.

106. Kumar, M.., Whittaker, A. S. and Constantinou, M. C., " EXPERIMENTAL INVESTIGATION OF CAVITATION IN ELASTOMERIC SEISMIC ISOLATION BEARINGS," Engineering Structures, Vol. 101, 2015, 290-305.

107. Basu, D., Whittaker, A. S. and Constantinou, M. C., "CHARACTERIZING ROTATIONAL COMPONENTS OF EARTHQUAKE GROUND MOTION USING A SURFACE DISTRIBUTION

METHOD AND RESPONSE OF SAMPLE STRUCTURES," Engineering Structures, 2015, Vol. 99, 685-707.

108. Lee, D. and Constantinou, M.C., "FURTHER RESULTS ON THE HEATING OF SINGLE AND MULTI-CORE LEAD-RUBBER BEARINGS AND DAMPERS", Bulletin of Earthquake Engineering, Vol. 14 (4), 2016, April, 999-1016.

109. Lee, D. and Constantinou, M.C., "QUINTUPLE FRICTION PENDULUM ISOLATOR-BEHAVIOR, MODELING AND VALIDATION", Earthquake Spectra, Volume 32, No. 3, 2016, August, 1607–1626.

110. Kitayama, S. and Constantinou, M.C., "PROBABILISTIC COLLAPSE RESISTANCE AND RESIDUAL DRIFT ASSESSMENT OF BUILDINGS WITH FLUIDIC SELF-CENTERING SYSTEMS", Earthquake Engineering and Structural Dynamics, Volume 45, No. 12, 2016, October, 1935–1953.

111. Kitayama, S. and Constantinou, M.C., "SEISMIC RESPONSE ANALYSIS OF SINGLE-DEGREE-OF-FREEDOM YIELDING STRUCTURES WITH FLUIDIC SELF-CENTERING SYSTEMS", Engineering Structures, Vol. 125, 2016, October, 266-279.

112. Sarlis, A., and Constantinou, M.C., "A MODEL OF TRIPLE FRICTION PENDULUM BEARING FOR GENERAL GEOMETRIC AND FRICTIONAL PARAMETERS", Earthquake Engineering and Structural Dynamics, Volume 45, No. 11, 2016, September, 1837–1853.

113. Sarlis A. A., Pasala D. T. R., Constantinou M. C., Reinhorn A. M., Nagarajaiah S., and Taylor D., "NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION OF STRUCTURES: SHAKE TABLE TESTING OF A SEISMICALLY ISOLATED STRUCTURE", Journal of Structural Engineering, ASCE, Vol. 142, No. 5, 2016, May.

114. Kitayama, S. and Constantinou, M.C., "DESIGN AND ANALYSIS OF BUILDINGS WITH FLUIDIC SELF-CENTERING SYSTEMS", Journal of Structural Engineering, ASCE, Vol. 142, No. 11, 2016, November.

115. Basu, D., Whittaker, A.S. and Constantinou, M.C., "ON THE DESIGN OF A DENSE ARRAY TO EXTRACT ROTATIONAL COMPONENTS OF EARTHQUAKE GROUND MOTION", Bulletin of Earthquake Engineering, Vol. 15, 2016, August, 827-860.

116. Polat, E. and Constantinou, M.C., "OPEN SPACE DAMPING SYSTEM DESCRIPTION, THEORY AND VERIFICATION", Journal of Structural Engineering, ASCE, Vol. 143, 4, 2017, April.

117. Kumar, M.., Whittaker, A. S. and Constantinou, M. C., " EXTREME EARTHQUAKE RESPONSE OF NUCLEAR POWER PLANTS ISOLATED USING SLIDING BEARINGS," Nuclear Engineering and Design, Vol. 316, 2017, May, 9-25.

118. Polat, E. and Constantinou, M.C., "EXPERIMENTAL STUDY OF OPEN SPACE DAMPING SYSTEM", Journal of Structural Engineering, ASCE, Vol. 143, No. 9, 2017, September.

119. Kitayama, S. and Constantinou, M.C., "FLUIDIC SELF-CENTERING DEVICES AS ELEMENTS

OF SEISMICALLY-RESISTANT STRUCTURES: DESCRIPTION, TESTING, MODELING AND MODEL VALIDATION", Journal of Structural Engineering, ASCE, Vol. 143, No. 7, 2017, July.

120. Kitayama, S., Lee, D., Constantinou, M.C. and Kempner, L., Jr., "PROBABILISTIC SEISMIC ASSESSMENT OF SEISMICALLY ISOLATED ELECTRICAL TRANSFORMERS CONSIDERING VERTICAL ISOLATION AND VERTICAL GROUND MOTION", Engineering Structures, Vol. 152, 2017, 888-900.

121. Cilsalar, H. and Constantinou, M.C., "EFFECT OF VERTICAL GROUND MOTION ON THE RESPONSE OF STRUCTURES ISOLATED WITH FRICTION PENDULUM ISOLATORS", Int. J. Earthquake and Impact Engineering, Vol. 2, No. 2, 2017, 135-157.

122. Basu, D., Whittaker, A.S. and Constantinou, M.C., DISCUSSION ON ''ARRAY-DERIVED ROTATIONAL SEISMIC MOTIONS: REVISITED'', Bulletin of Earthquake Engineering, Vol. 15, Issue 12, 5605–5615, https://doi.org/10.1007/s10518-017-0183-x , 2017.

123. Lee, D. and Constantinou, M.C., "COMBINED HORIZONTAL–VERTICAL SEISMIC ISOLATION SYSTEM FOR HIGH-VOLTAGE–POWER TRANSFORMERS: DEVELOPMENT, TESTING AND VALIDATION", Bulletin of Earthquake Engineering, Volume 16, Issue 9, 4273–4296, https://doi.org/10.1007/s10518-018-0311-2 , 2018.

124. Kitayama, S. and Constantinou, M.C., "SEISMIC PERFORMANCE OF BUILDINGS WITH VISCOUS DAMPING SYSTEMS DESIGNED BY THE PROCEDURES OF ASCE/SEI 7-2016", Journal of Structural Engineering, ASCE, Vol. 144, No. 6, 2018.

125. Kitayama, S. and Constantinou, M.C., "COLLAPSE PERFORMANCE OF SEISMICALLY ISOLATED BUILDINGS DESIGNED BY THE PROCEDURES OF ASCE/SEI 7", Engineering Structures, Vol. 164, 243-258, https://doi.org/10.1016/j.engstruct.2018.03.008 , 2018.

126. Kitayama, S. and Constantinou, M.C., "PROBABILISTIC SEISMIC PERFORMANCE ASSESSMENT OF SEISMICALLY ISOLATED BUILDINGS DESIGNED BY THE PROCEDURES OF ASCE/SEI 7 AND OTHER ENHANCED CRITERIA", Engineering Structures, Vol. 179, 566-582, https://doi.org/10.1016/j.engstruct.2018.11.014 , 2019.

127. Kitayama, S. and Constantinou, M.C., "EFFECT OF DISPLACEMENT RESTRAINT ON THE COLLAPSE PERFORMANCE OF SEISMICALLY ISOLATED BUILDINGS", Bulletin of Earthquake Engineering, https://doi.org/10.1007/s10518-019-00554-y , 2019.

128. Cilsalar, H. and Constantinou, M.C., "BEHAVIOR OF A SPHERICAL DEFORMABLE ROLLING SEISMIC ISOLATOR FOR LIGHTWEIGHT RESIDENTIAL CONSTRUCTION", Bulletin of Earthquake Engineering, https://doi.org/10.1007/s10518-019-00626-z , 2019.

129. Cilsalar, H. and Constantinou, M.C., " PARAMETRIC STUDY OF SEISMIC COLLAPSE PERFORMANCE OF LIGHTWEIGHT BUILDINGS WITH SPHERICAL DEFORMABLE ROLLING ISOLATION SYSTEM", Bulletin of Earthquake Engineering, https://doi.org/10.1007/s10518-019-00753-7 , 2019.

130. Kitayama, S., and Constantinou, M.C., "IMPLICATIONS OF STRONG EARTHQUAKE GROUND MOTION DURATION ON THE RESPONSE AND TESTING OF SEISMIC ISOLATION

SYSTEMS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.3330 , 2021.

131. Kitayama, S., and Constantinou, M.C., "EFFECT OF MODELING ASSUMPTIONS ON THE SEISMIC PERFORMANCE OF SEISMICALLY ISOLATED BUILDINGS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.3427 , 2021.

132. Ipek, C., Wolff, E.D., and Constantinou, M.C., "ACCURACY OF ANALYTICAL MODELS TO PREDICT PRIMARY AND SECONDARY SYSTEM RESPONSE IN SEISMICALLY ISOLATED BUILDINGS", Soil Dynamics and Earthquake Engineering, https://doi.org/10.1016/j.soildyn.2021.106944 , 2021.

133. Kitayama, S., and Constantinou, M.C., "PERFORMANCE EVALUATION OF SEISMICALLY ISOLATED BUILDINGS NEAR ACTIVE FAULTS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.3602 ,2022.

134. Mir, F-U-H, Kaivalya, M.L., Whittaker, A.S. and Constantinou, M.C. "VALIDATION OF A NUMERICAL MODEL OF A SEISMICALLY ISOLATED, CYLINDRICAL, FLUID-FILLED VESSEL", Earthquake Engineering and Structural Dynamics, http://doi.org/10.1002/eqe.3642 , 2022.

135. Kitayama, S., and Constantinou, M.C., "EFFECT OF MODELING OF INHERENT DAMPING ON THE RESPONSE AND COLLAPSE PERFORMANCE OF SEISMICALLY ISOLATED BUILDINGS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.3773 , 2022.

136. Kim, H-M., and Constantinou, M.C., "MODELING FRICTIONAL HEATING EFFECTS IN TRIPLE FRICTION PENDULUM ISOLATORS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.3797 , 2022.

137. Kaivalya, M.L., Whittaker, A.S. and Constantinou, M.C. "MID-HEIGHT SEISMIC ISOLATION OF EQUIPMENT IN NUCLEAR POWER PLANTS", Earthquake Engineering and Structural Dynamics, http://doi.org/10.1002/eqe.3798 , 2023.

138. Kim, H-M., and Constantinou, M.C., "PERFORMANCE-BASED TESTING SPECIFICATIONS FOR SEISMIC ISOLATORS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.4006 , 2023.

139. Kim, H-M., and Constantinou, M.C., "VALIDITY OF MODELS FOR FRICTIONAL HEATING IN SLIDING ISOLATORS", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.4067 , 2023.

140. Kim, H-M., and Constantinou, M.C., "TESTING SEISMIC ISOLATORS FOR THE EFFECT OF MAXIMUM EARTHQUAKE BASED ON MEASURE OF CUMULATIVE ENERGY", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.4202 , 2024.

141. Lopez Restrepo, S. and Constantinou, M.C., "SHAKE TABLE TESTING OF A SEISMIC ISOLATION SYSTEM FOR LIGHTWEIGHT STRUCTURES", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.4269, 2024.

142. Pasala D. T. R., Sarlis A. A., Nagarajaiah S., Reinhorn A. M., Constantinou M. C., Taylor D., Sen D. and Herkal, S. "NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION OF MDOF YIELDING FIXED BASE STRUCTURES: EXPERIMENTAL AND ANALYTICAL STUDY", Earthquake Spectra, https://doi.org/10.1177/87552930241292348 , 2024.

143. Lopez Restrepo, S. and Constantinou, M.C., "MODEL DEVELOPMENT AND VALIDATION FOR A SEISMIC ISOLATION SYSTEM FOR LIGHTWEIGHT STRUCTURES", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.4321 , 2025.

144. Kim, H-M., Ipek, C., Tapan, M. and Constantinou, M.C., "PERFORMANCE OF A SEISMICALLY ISOLATED BUILDING IN THE EARTHQUAKES OF FEBRUARY 6, 2023 IN TÜRKIYE", ASCE, Journal of Performance of Constructed Facilities, https://doi.org/10.1061/JPCFEV.CFENG-4780 , 2025.

145. Kitayama, S., and Constantinou, M.C., "PERFORMANCE OF SEISMICALLY ISOLATED AND NON-ISOLATED STEEL-FRAMED BUILDINGS: SENSITIVITY TO AMOUNT AND FORM OF INHERENT DAMPING", Earthquake Engineering and Structural Dynamics, https://doi.org/10.1002/eqe.4355 , 2025.

B. **Discussions in Referred Journals**

1. Constantinou, M.C., Gazetas, G. and Tadjbakhsh, I.G., Discussion on "EARTHQUAKE INDUCED DISPLACEMENTS OF SLIDING BLOCKS", by J.S. Lin and R.V. Whitman (Paper 20264), Journal of Geotechnical Engineering, ASCE, Vol. 113, No. 8, 1987, pp.958-961.

2. Constantinou, M.C., Gazetas, G. , Discussion on 'TORSIONAL VIBRATIONS OF A CIRCULAR DISK ON AN INFINITE TRANSVERSELY ISOTROPIC MEDIUM", by Y.M. Tsai (published in Int. J. of Solids and Structures, Vol. 25 (9), 1989, pp. 1069-1076), International Journal of Solids and Structures, Vol. 27, No. 9, 1991, pp. 1209-1211.

3. Constantinou, M.C., Discussion on "COMPRESSION OF BONDED ANNULAR RUBBER BLOCKS," by Y. Ling et al. (published in J. Engng. Mechanics, ASCE, Vol. 121 (6), 1995, pp. 661-666), Journal of Engineering Mechanics, ASCE, Vol. 123 (No. 4), 1997, pp. 405-407.

C. **Invited Presentations**

1. Constantinou, M.C. and Gazetas, G., "FORTHCOMING APPLICATIONS OF SEISMIC ISOLATION IN GREECE," Post SMiRT Seminar on Seismic Isolation of Nuclear and Non-Nuclear Structures, Nara, Japan, 1991.

2. Buckle, I.G., Soong, T.T. and Constantinou, M.C., "RESEARCH ACTIVITIES IN SEISMIC ISOLATION AND OTHER PROTECTIVE SYSTEMS AT THE U.S. NATIONAL CENTER FOR EARTHQUAKE ENGINEERING RESEARCH," Post SMiRT Seminar on Seismic Isolation of Nuclear and Non-Nuclear Structures, Nara, Japan, 1991.

3. Constantinou, M.C., "SLIDING ISOLATION SYSTEMS FOR BRIDGES," 1st U.S.-Japan Workshop on Earthquake Protective Systems for Bridges, Buffalo, N.Y., 1991.

4. Constantinou, M.C., "SEISMIC ISOLATION: RESEARCH, TECHNOLOGY AND APPLICATION," Ministry of Public Works, Greece, Jan. 1992.

5. Constantinou, M.C., "FLUID DAMPERS IN APPLICATIONS OF VIBRATION AND SEISMIC ISOLATION AND ENERGY DISSIPATION", Institute of Environmental Sciences, Auburn, N.Y., April, 1992.

6. Constantinou, M.C., "SEISMIC ISOLATION: MATHEMATICAL MODELING, ANALYSIS, DESIGN AND CODE DEVELOPMENT", Ministry of Public Works, Greece, June 1992.

7. Soong, T.T. and Constantinou, M.C., "BASE ISOLATION AND ACTIVE CONTROL TECHNOLOGY-CASE STUDIES IN THE U.S.A.," IDNDR International Symposium on Earthquake Disaster Reduction Technology, Building Research Institute, Ministry of Construction, Tsukuba, Japan, December 1992.

8. Okamoto, S., Constantinou, M.C., Tsopelas, P., Fujii, S. and Ozaki, D., "SHAKE TABLE TEST OF A BRIDGE WITH SLIDING ISOLATION SYSTEM", 2nd U.S.-Japan Workshop on Protective Systems for Bridges, Tsukuba, Japan, Dec. 1992.

9. Constantinou, M. C., Tsopelas P. and Ozaki, D., "BRIDGE DESIGN EXAMPLE", 2nd U.S.-Japan Workshop on Protective Systems for Bridges, Tsukuba, Japan, Dec. 1992.

10. Constantinou, M.C., "FLUID DAMPERS IN APPLICATIONS OF SEISMIC ISOLATION AND ENERGY DISSIPATION," Rensselaer Polytechnic Institute, Troy, N.Y., April 1993.

11. Constantinou, M.C., "DUAL-USE TECHNOLOGIES", CIRD Meeting, Tokyo, Dec. 1993.

12. Constantinou, M.C., Tsopelas, P. and Okamoto, S., "EXPERIMENTAL STUDY OF A CLASS OF BRIDGE SLIDING SEISMIC ISOLATION SYSTEMS," 3rd U.S.-Japan Workshop on Earthquake Protective Systems for Bridges, Berkeley, Jan. 1994.

13. Constantinou, M.C., "BRIDGE SEISMIC ISOLATION", Ministry of Public Works, Greece, Nov. 1994.

14. Constantinou, M.C., “SEISMIC ISOLATION AND ENERGY DISSIPATION: NEW TECHNOLOGIES FOR STRUCTURAL DESIGN AND SEISMIC REHABILITATION,” 12th Greek Concrete Conference, Greece, October, 1996.

15. Whittaker, A.S. and Constantinou, M.C., “ADVANCES IN SUPPLEMENTAL DAMPING SYSTEMS FOR CIVIL INFRASTRUCTURE”, VII Mexican Conference on Earthquake Engineering, Morelia, Mexico, November 1999.

16. Whittaker, A.S. and Constantinou, M.C., “FLUID VISCOUS DAMPERS FOR BUILDING CONSTRUCTION”, Passive Structural Control Symposium 2000, Tokyo Institute of Technology, Yokohama, Japan, March 2000.

17. Constantinou, M.C., Tsopelas, P., Hammel, W. and Sigaher, A.N., “NEW CONFIGURATIONS OF FLUID VISCOUS DAMPERS FOR IMPROVED PERFORMANCE”, Passive Structural Control Symposium 2000, Tokyo Institute of Technology, Yokohama, Japan, March 2000.

18. Constantinou, M.C., “DAMPING SYSTEMS FOR STRUCTURAL DESIGN AND RETROFIT”, EERI 52nd Annual Meeting, St. Louis, May 31, 2000.

19. Constantinou, M.C., “NEW TECHNOLOGIES”, International Conference on Earthquake Risk Minimization, Cyprus, March 2002.

D. **Publications in Conference Proceedings**

1. Constantinou, M.C. and Tadjbakhsh, I.G., "DYNAMIC INSTABILITY OF THE ELASTIC COUPLER OF A FOUR-BAR MECHANISM", 1982 Mechanisms Conference, American Society of Mechanical Engineers, Washington, D.C., Sept. 1982. Also published as ASME Pamphlet No. 82-DET-6.

2. Constantinou, M.C., "SOIL-STRUCTURE INTERACTION EFFECTS IN THE DESIGN OF BASE-ISOLATED STRUCTURES", ATC-17 Seminar on Base Isolation and Passive Energy Dissipation, March 12-13, 1986, San Francisco. CA., pp. 371-380.

3. Tadjbakhsh, I. and Constantinou, M.C., "OPTIMUM DESIGN OF ISOLATION SYSTEMS FOR STRUCTURES", ASCE 1983 Spring Convention, Philadelphia, PA, May 1983.

4. Constantinou, M.C. and Gazetas, G., "PROBABILISTIC SEISMIC SLIDING DEFORMATIONS OF EARTH DAMS AND SLOPES", Proc., ASCE Specialty Conference on Probabilistic Mechanics and Structural Reliability, Berkeley, CA, January 1987, pp. 318 321.

5. Constantinou, M.C., "SYSTEMS OF ASEISMIC BASE ISOLATION: OPTIMIZATION ASPECTS", Proc. 2nd International Conference on Soil Dynamics and Earthquake Engineering, June 1985, on board QE2, pp. 1 49/1 58.

6. Constantinou, M.C., "DYNAMICS OF 3D BASE ISOLATED STRUCTURES", 3rd ASCE Engineering Mechanics Conference on Dynamic Response of Structures, March April 1986, UCLA, CA.

7. Constantinou, M.C. and Kneifati, M.C., "EFFECT OF SOIL STRUCTURE INTERACTION ON DAMPING AND FREQUENCIES OF BASE ISOLATED STRUCTURES", 3rd U.S. National Conference on Earthquake Engineering, August 1986, Charleston, S.C.

8. McNamee, B.M. and Constantinou, M.C., "AN ANSYS APPLICATION IN THE DESIGN/ANALYSIS OF A STEEL SHELVING SYSTEM", 3rd ANSYS Conference, April 1987, Newport Beach, CA.

9. Constantinou, M.C. and Tadjbakhsh, I.G. "SOME THEORETICAL LIMITS OF BASE ISOLATION SYSTEMS", 6th ASCE Engineering Mechanics Specialty Conference, University at Buffalo, SUNY, 1987.

10. Constantinou, M.C. and Reinhorn, A.M., "RESPONSE OF BASE ISOLATED STRUCTURE", ICOSSAR 89, San Francisco, CA, August 1989.

11. Constantinou, M.C., Reinhorn, A. and Watson, R., "TEFLON BEARINGS IN ASEISMIC BASE ISOLATION: EXPERIMENTAL STUDIES," 1988 ASME PVP Conference, Pittsburgh, PA, June 1988, Proc. Vol. 147, pp. 9-13.

12. Mokha, A., Constantinou, M.C. and Reinhorn, A.M., "SLIDING ISOLATED STRUCTURES: EXPERIMENTS AND MATHEMATIC MODELING", 1989 ASME PVP Conference, Hawaii, July 1989, Proc. Vol. 181, pp. 101-106.

13. Makris, N., Constantinou, M.C. and Hueffmann, G., "TESTING AND MODELING OF VISCOUS DAMPERS," 1991 ASME PVP Conference, San Diego, CA, June 1991.

14. Constantinou, M.C., Reinhorn, A.M., Kartoum, A. and Watson, R., "TEFLON DISC BEARING AND DISPLACEMENT CONTROL DEVICE ISOLATION SYSTEM FOR UPGRADING SEISMICALLY VULNERABLE BRIDGES," Proc., 3rd World Congress on Joints and Bearings, Toronto, Canada, October 1991. **Best Paper Award**.

15. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "UPLIFT RESTRAINT FOR SLIDING BASE ISOLATED STRUCTURES," Proc., 3rd World Congress on Joints and Bearings, Toronto, Canada, October 1991.

16. Makris, N. and Constantinou, M.C., "EXPERIMENTAL STUDY AND ANALYTICAL PREDICTION OF RESPONSE OF SPRING-VISCOUS DAMPER ISOLATION SYSTEM," Proc. Tenth World Conference on Earthquake Engineering, July 1992, Madrid, Spain, pp. 2467-2471.

17. Constantinou, M.C., Symans, M.D. and Taylor, D.P., "FLUID VISCOUS DAMPERS FOR IMPROVING THE EARTHQUAKE RESISTANCE OF BUILDINGS," Structures Congress 1993, ASCE, April 1993, Irvine, CA.

18. Constantinou, M.C., Winters, C.W. and Theodossiou, D., "EVALUATION OF SEAOC/UBC ANALYSIS PROCEDURES. PART 2: FLEXIBLE SUPERSTRUCTURE," Proc. ATC-17-1 Seminar on Seismic Isolation, Passive Energy Dissipation, and Active Control, March 1993, San Francisco, CA.

19. Constantinou, M.C., Symans, M.D., Tsopelas, P. and Taylor, D.P., "FLUID VISCOUS DAMPERS IN APPLICATIONS OF SEISMIC ENERGY DISSIPATION AND SEISMIC ISOLATION," Proc. ATC-17-1 Seminar on Seismic Isolation, Passive Energy Dissipation, and Active Control, March 1993, San Francisco, CA.

20. Nagarajaiah, S., Tsopelas, P., Li, C., Reinhorn, A.M. and Constantinou, M.C., "3D-BASIS: A CLASS OF COMPUTERS PROGRAMS FOR NONLINEAR DYNAMIC ANALYSIS OF BASE ISOLATION STRUCTURES," Proc. ATC-17-1 Seminar on Seismic Isolation, Passive Energy Dissipation, and Active Control, March 1993, San Francisco, CA.

21. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "TORSION IN BASE ISOLATED STRUCTURES," Proc. ATC-17-1 Seminar on Seismic Isolation, Passive Energy Dissipation, and Active Control, March 1993, San Francisco, CA.

22. Eidinger, J., Tajirian, F., Kelly, J., Constantinou, M. and Seidensticker, R., "BASE ISOLATION FOR NUCLEAR POWER AND NUCLEAR MATERIALS FACILITIES, REPORT ON THE STATUS OF PRACTICE", Proceedings, LLNL/DOE conference, Knoxville, TN, October 1989.

23. Constantinou, M.C., "EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SLIDING ISOLATION SYSTEMS," US/PRC Workshop on Base Isolation, UC Berkeley, May 1990.

24. Nagarajaiah, S., Reinhorn, A. and Constantinou, M.C., "ANALYTICAL MODELING OF THREE-DIMENSIONAL BEHAVIOR OF BASE ISOLATION DEVICES," 4th U.S. National Conference on Earthquake Engineering, Palm Springs, CA, May 1990.

25. Constantinou, M.C., Reinhorn, A.M. and Watson, R., "COMBINED TEFLON DISC BEARING AND DISPLACEMENT CONTROL DEVICE ISOLATION SYSTEM FOR BRIDGES," Bridge Engineering Research Workshop, University of Nevada, Reno, October 1990.

26. Makris, N. and Constantinou, M.C., "APPLICATION OF FRACTIONAL CALCULUS IN MODELING VISCOUS DAMPERS," International Conference on Earthquake, Blast and Impact, Institution of Civil Engineers, Manchester, U.K., 1991.

27. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "LATERAL-ROCKING RESPONSE OF SLENDER SLIDING BASE ISOLATED STRUCTURES," Proc., 28th Annual Technical Meeting of the Soc. of Engrg. Science, Gainsville, FL, 1991.

28. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., LATERAL-TORSIONAL RESPONSE OF SLIDING ISOLATED STRUCTURES," Proc., Pacific Conf. on Earthquake Engrg., Auckland, New Zealand, 1991.

29. Constantinou, M.C., Fujii, S., Tsopelas, P. and Okamoto, S., "UNIVERSITY AT BUFFALO-TAISEI CORPORATION RESEARCH PROJECT ON BRIDGE SEISMIC ISOLATION SYSTEMS," 3rd Workshop on Bridge Engineering Research in Progress, Nov. 1992, La Jolla, CA.

30. Shinozuka, M., Constantinou, M.C. and Ghanem, R., "PASSIVE AND ACTIVE FLUID DAMPERS IN STRUCTURAL APPLICATIONS," U.S./China/Japan Workshop on Structural Control, October 1992, Shanghai, China.

31. Okamoto, S., Ozaki, D., Constantinou, M.C. and Tsopelas, P. "FUNDAMENTAL CHARACTERISTICS OF BASE ISOLATION SYSTEM FOR BRIDGES USING SLIDING BEARING AND RUBBER DEVICE." Proc. 47th J.S.C.E. Annual Conference, Japan, 1992, (in Japanese).

32. Okamoto, S., Ozaki, D., Fujii, S., Constantinou, M.C. and Tsopelas, P. “SHAKE TABLE TEST OF A MODEL BRIDGE WITH SLIDING ISOLATION SYSTEM.” Proc. 48th J.S.C.E. Annual Conference, Japan, 1993, (in Japanese).

33. Shinozuka, M., Ghanem, R. and Constantinou, M.C., "ADAPTIVE STRUCTURAL SYSTEMS." Proc. 2nd International Conference on Intelligent Materials, Williamsburg, VA, June 1994.

34. Constantinou, M.C. Tsopelas, P. and Okamoto, S., "EXPERIMENTAL STUDY OF A CLASS OF BRIDGE SEISMIC ISOLATION SYSTEMS." Proc. 5th U.S. National Conference on Earthquake Engineering, Chicago, July 1994.

35. Al-Hussaini, T.M., Constantinou, M.C. and Zayas, V.A., "SUPERSTRUCTURE RESPONSE OF SLIDING-ISOLATED MULTI-STORY FRAME STRUCTURE", Proc. 1995 ASME/JSME-PVP Conference, Hawaii, Aug. 1995.

36. Constantinou, M.C., Tsopelas, P. and Kasalanati, A., "LONGEVITY AND RELIABILITY OF SLIDING ISOLATION SYSTEMS," Proc., 4th National Workshop on Bridge Research in Progress, Buffalo, NY, June 1996.

37. Ghanem, R., Bujakov, M. and Constantinou, M.C., "ADAPTIVE CONTROL OF NON-LINEAR UNCERTAIN DYNAMICAL SYSTEMS." 2nd International Conference on Computational Stochastic Mechanics, Athens, Greece, June 1994.

38. Symans, M.D., Constantinou, M.C., Taylor, D.P. and Garnjost, K.D., "SEMI-ACTIVE FLUID VISCOUS DAMPERS FOR SEISMIC RESPONSE CONTROL", 1st World Conference on Structural Control, Los Angeles, August 1994.

39. Taylor, P.D. and Constantinou, M.C., "TESTING PROCEDURES FOR HIGH OUTPUT FLUID VISCOUS DAMPERS USED IN STRUCTURES TO DISSIPATE SEISMIC ENERGY. A CASE STUDY IN DEFENSE CONVERSION," Proc. 65th Shock and Vibration Symposium, Naval Command, Control and Ocean Surveillance Center, San Diego, CA, November 1994.

40. Whittaker, A., Constantinou, M. and Kircher, C., "SEISMIC REHABILITATION USING PASSIVE ENERGY DISSIPATION SYSTEMS," Workshop on Non-conventional Systems for Earthquake Protection of Buildings, Univ. of Ancona, Ancona, Italy, Nov. 1994.

41. Reinhorn, A.M., Constantinou, M.C. and Li, C., "USE OF SUPPLEMENTAL DAMPING DEVICES FOR SEISMIC STRENGTHENING OF LIGHTLY REINFORCED CONCRETE FRAMES," Workshop on the Seismic Rehabilitation of Lightly Reinforced Concrete Frames, National Institute of Standards and Technology, June 12-13, 1995, published in NIST Report NISTIR 5741, pp. 129-156.

42. Symans, M.D. and Constantinou, M.C., "SEMI-ACTIVE CONTROL OF EARTHQUAKE INDUCED VIBRATION," Proceedings of 11th World Conference on Earthquake Engineering, Acapulco, Mexico, June 1996.

43. Whittaker, A.S., Constantinou, M.C. and Kircher, C.A., "SEISMIC REHABILITATION USING SUPPLEMENTAL DAMPING SYSTEMS," Proceedings of 11th World Conference on Earthquake Engineering, Acapulco, Mexico, June 1996.

44. Constantinou, M.C. and Whittaker, A.S., "SEISMIC PROTECTIVE SYSTEMS FOR BRIDGES IN THE UNITED STATES: STATE-OF-THE-ART AND STATE-OF PRACTICE," Proceedings of U.S.-Italy Workshop on Seismic Protective Systems for Bridges, NY, 1998.

45. Constantinou, M.C., "APPLICATION OF SEISMIC ISOLATION SYSTEMS IN GREECE", Proceedings of '98 Structural Engineers World Congress, Paper T175-3, San Francisco, CA, 1998.

46. Constantinou, M.C. and Sigaher, N., "ENERGY DISSIPATION SYSTEM CONFIGURATIONS FOR IMPROVED PERFORMANCE", Proc. 2000 Structures Congress, ASCE, Philadelphia, PA, May 2000.

47. Constantinou, M.C., Whittaker, A.S. and Velivasakis, E., "SEISMIC EVALUATION AND RETROFIT OF THE ATATURK INTERNATIONAL AIRPORT TERMINAL BUILDING," Proc.2001 Structures Congress, ASCE, Washington, DC, May 2001.

48. Constantinou, M.C., "NEW DEVELOPMENTS IN THE FIELD OF SEISMIC ISOLATION," Proc. 2001 Structures Congress, ASCE, Washington, DC, May 2001.

49. Lee, P.L., Mazeika, A., Hartman, C, Whittaker, A.S. and Constantinou, M.C., "SEISMIC ISOLATION OF AN INTERNET SERVICE EXCHANGE FACILITY: ABOVENET ISX-SFI", Proc. 2001 SEAOC Convention, Structural Engineers Association of California, Sacramento, CA, September, 2001.

50. Whittaker, A.S., Constantinou, M.C. and Chrysostomou, C.Z., "SEISMIC ENERGY DISSIPATION SYSTEMS FOR BUILDINGS", Proc., Passive Energy Dissipation Symposium, Tokyo Institute of Technology, Yokohama, Japan, December 2001.

51. Dicleli, M., Constantinou, M.C., Roussis, P.C., Erdik, M., Durukal, E., "PERFORMANCE OF THE SEISMICALLY ISOLATED BOLU VIADUCT IN THE 1999 DUZCE EARTHQUAKE IN TURKEY", *Proc. 81st Annual Meeting (on CD- ROM)*, Washington, D. C., USA, Transportation Research Board, Federal Highway Administration, Washington, D. C., January 2002.

52. Dicleli, M. and Mansour, M. Y., Mokha, A., Zayas, V. and Constantinou, M. C., "IMPACT OF FRICTION PENDULUM BEARINGS ON THE SEISMIC RETROFITTING COST OF TYPICAL BRIDGES WITH WALL TYPE PIERS IN THE STATE OF ILLINOIS" Technical Council on Lifeline Earthquake Engineering, TCLEE-2003 Conference, Long Beach, California, August 2003.

53. Roussis, P. C. and Constantinou, M. C., "EXPERIMENTAL AND ANALYTICAL STUDY OF SEISMICALLY ISOLATED STRUCTURES WITH UPLIFT RESTRAINT," Proceedings of the Thirteenth World Conference on Earthquake Engineering, Vancouver, Canada, August 2004.

54. Bruneau, M., A. M. Reinhorn, M. Constantinou, A. S. Whittaker, and S. Thevanayagam, "THE UB-NEES VERSATILE HIGH-PERFORMANCE TESTING FACILITY," Proceedings, 13th World Conference on Earthquake Engineering, Paper 1577, Vancouver, B.C., Canada, August, 2004.

55. Filiatrault, A., A. Aref, M. Bruneau, M. Constantinou, G. Lee and A. S. Whittaker, "MCEERS RESEARCH ON THE SEISMIC RESPONSE MODIFICATION OF STRUCTURAL AND NONSTRUCTURAL SYSTEMS AND COMPONENTS IN HOSPITALS," *Proceedings*, SEAOC Annual Convention, Monterey, CA, August 2004. (Also presented at the International Conference in Commemoration of 5th Anniversary of the 1999 Chi-Chi Taiwan Earthquake, in Taipei in September 2004).

56. Astrella, M., A. S. Whittaker and M. C. Constantinou, "PROTECTIVE TECHNOLOGIES AND PERFORMANCE-BASED EARTHQUAKE ENGINEERING," *Proceedings*, KEERC International Seminar on Innovative Concepts and Technologies in Seismic Analysis and Design of Building Structures, Seoul National University, Seoul, South Korea, February 2005.

57. Filiatrault, A., Aref, A., Bruneau, M., Constantinou, M., Lee, G., and Whittaker, A.S. ,"MCEER'S RESEARCH ON THE SEISMIC RESPONSE MODIFICATION OF STRUCTURAL AND NONSTRUCTURAL SYSTEMS AND COMPONENTS IN HOSPITALS," Proceedings of SEAOC Annual Convention, Monterey, CA, August, 2004.

58. Filiatrault, A., Aref, A., Bruneau, M., Constantinou, M., Lee, G., Reinhorn, A., Whittaker, A., "MCEER'S INTEGRATED RESEARCH ON THE SEISMIC RESPONSE MODIFICATION OF STRUCTURAL AND NON-STRUCTURAL SYSTEMS AND COMPONENTS IN HOSPITALS," International Conference in Commemoration of 5th Anniversary of the 1999 Chi-Chi Taiwan Earthquake, Taipei, September, 2004.

59. Bruneau, M., Reinhorn, A., Whittaker, A., Constantinou, M., Thevanayagam, S., Sivaselvan, M.., Shao, X., Hanley, J., Pitman, M.C., Albrechcinski, T., "THE NEW UB-NEES VERSATILE EARTHQUAKE ENGINEERING FACILITY FOR REAL-TIME DYNAMIC HYBRID TESTING (RTDHT)." ASCE 17th Engineering Mechanics Conference, Delaware, June 2004.

60. Reinhorn, A.M., Simeonov, V.K., DeRue G., and Constantinou, M.C., "SENSITIVITY OF RESPONSE OF ISOLATED BRIDGES TO MODELING AND DESIGN PARAMETERS--A CASE STUDY", Proceedings of U.S.-Italy Workshop on Seismic Protective Systems for Bridges, NY, 1998.

61. Constantinou, M.C., and Tsopelas, P., "EXPERIMENTAL STUDY OF BRIDGE SEISMIC ISOLATION SYSTEMS," Proc., 4th World Congress on Joints and Bearings, Sacramento, CA, September 1996.

62. Zayas, V., Constantinou, M.C., Kartoum, A., and Tsopelas, P., "TESTING OF FRICTION PENDULUM SEISMIC ISOLATION BEARINGS FOR BRIDGES," Proc., 4th World Congress on Joints and Bearings, Sacramento, CA, September 1996.

63. Symans, M.D. and Constantinou, M.C., "EXPERIMENTAL STUDY OF SEISMIC RESPONSE OF STRUCTURES WITH SEMI-ACTIVE DAMPING CONTROL SYSTEMS," Proc. 12th Conf. on Analysis and Computation, Structures Congress XIV, ASCE, Chicago, April 1996, pp. 350-360.

64. Kasalanati, A., Reinhorn, A.M., Constantinou, M.C., and Sanders, D., "EXPERIMENTAL STUDY OF BALL-IN-CONE ISOLATION SYSTEM," Proc. Structures Congress XV, ASCE, Portland, Oregon, April 1997.

65. Symans, M.D. and Constantinou, M.C., "SEMI-ACTIVE FLUID DAMPING CONTROL SYSTEMS FOR SEISMIC HAZARD MITIGATION," Proc. Structures Congress XV, ASCE, Portland, Oregon, April 1997.

66. Constantinou, M.C., Erdik, M. and Roussis, P.C., "ASSESSMENT OF PERFORMANCE OF BOLU VIADUCT IN DUZCE EARTHQUAKE IN TURKEY", FIB Symposium "Concrete Structures in Seismic Regions", Athens, Greece, May 2003.

67. Constantinou, M.C., "DAMPING SYSTEMS FOR NEW AND RETROFIT CONSTRUCTION", Keynote Lecture, FIB Symposium "Concrete Structures in Seismic Regions", Athens, Greece, May 2003.

68. Roussis, P. and Constantinou, M.C., SEISMIC RESPONSE ANALYSIS OF STRUCTURES EQUIPPED WITH UPLIFT-RESTRAINING SLIDING ISOLATION BEARINGS: A CASE STUDY", Paper 1599, National Conference in Earthquake Engineering, San Francisco, CA, 2006.

69. Fenz, D. and Constantinou, M.C., "FUNDAMENTALS OF DOUBLE CONCAVE FRICTION PENDULUM BEARING," Proc., 6th World Congress on Joints and Bearings, Halifax, Canada, September 2006.

70. Nagarajaiah S., Reinhorn A. M., Constantinou M. C., Taylor D., Pasala,, D. T. R., and Sarlis, A. A. S., "TRUE ADAPTIVE NEGATIVE STIFFNESS: A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION," Proceedings of 5th World Conference on Structural Control and Monitoring, July 12-14, Tokyo, Japan, 2010.

71. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., and Taylor, D., "TRUE ADAPTIVE NEGATIVE STIFFNESS: A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION," Proceedings, 2011 NSF Engineering Research and Innovation Conference, Atlanta, Georgia, 2011.

72. Sarlis A. A. S., Pasala D. T. R., Constantinou M. C., Reinhorn A. M., Nagarajaiah S., Taylor D. "NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION OF STRUCTURES – AN ANALYTICAL AND EXPERIMENTAL STUDY", 3rd International conference on computational methods in structural dynamics and earthquake engineering, Greece, May 2011.

73. Fenz, M.D., Reed, R., Slatnick, S., Steward, H.R., and Constantinou, M.C., "DEVELOPMENT OF PERFORMANCE-BASED TESTING SPECIFICATIONS FOR THE ARKUTUN-DAGI FRICTION PENDULUM BEARINGS", Offshore Technology Conference, Paper OTC 22160, Houston, 2011.

74. Reinhorn, A. M., Ray, T., Pasala, D. T. R., Sarlis, A. A., Nagarajaiah, S., Constantinou, M.C., "CONTROL OF INELASTIC STRUCTURES BY WEAKENING AND DAMPING", Proc. Structures Congress, 2012, Chicago, published CDROM, March 2012.

75. Attary, N., Symans, M., Nagarajaiah, S., Reinhorn, A., Constantinou, M.C., Taylor, D., Sarlis, A. A., Pasala, D. T. R. "APPLICATION OF NEGATIVE STIFFNESS DEVICES FOR SEISMIC PROTECTION OF BRIDGE STRUCTURES", Proc. Structures Congress, 2012, Chicago, published CDROM, March 2012.

76. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D. "NEGATIVE STIFFNESS DEVICE FOR SEISMIC RESPONSE CONTROL OF MULTISTORY BUILDINGS", Proc. Structures Congress, 2012, Chicago, published CDROM, March 2012.

77. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D.," ADAPTIVE NEGATIVE STIFFNESS: A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION", ANCRiSST workshop 2011, Dalian, China, published CDROM, 2011.

78. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D.," ADAPTIVE NEGATIVE STIFFNESS: STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION", Structures Congress, 2011, Las Vegas, published CDROM, May 2011.

79. Sarlis, A. A. S., Pasala, D. T. R., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., and Taylor, D., "NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION OF STRUCTURES – AN ANALYTICAL AND EXPERIMENTAL STUDY," Proceedings, 2011 NSF Engineering Research and Innovation Conference,
Atlanta, Georgia, 2011.

80. Attary, N., Symans, M., Nagarajaiah, S., Reinhorn, A., Constantinou, M.C., Taylor, D., Sarilis, A. A., Pasala, D. T. R. "SEISMICALLY-ISOLATED BRIDGE STRUCTURE WITH ADAPTIVE PASSIVE NEGATIVE STIFFNESS", Proc. Quake Summit, NSF CMMI Grantees Conference, 2012, Boston, published CDROM, July 2012.

81. Nagarajaiah , S., Pasala, D. T. R., Reinhorn, A. M., Constantinou, M. C., Sarlis, A. A. S., Taylor, D. "ADAPTIVE NEGATIVE STIFFNESS: A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION," ***Keynote Lecture***, Proc. International Conference on Advances in Civil Infrastructure Engineering, Changsha, China, published CDROM, September 2012.

82. Attary, N., Symans, M., Nagarajaiah, S., Reinhorn, A., Constantinou, M.C., Taylor, D., Sarilis, A. A., Pasala, D. T. R. "PERFORMANCE EVALUATION OF A SEISMICALLY-ISOLATED BRIDGE STRUCTURE WITH ADAPTIVE PASSIVE NEGATIVE STIFFNESS", Proc. 15 World Conference Earthquake Engineering, Lisbon, published CDROM, September 2012.

83. Nagarajaiah , S., Pasala, D. T. R., Reinhorn, A. M., Constantinou, M. C., Sarlis, A. A. S., Taylor, D. "ADAPTIVE NEGATIVE STIFFNESS: A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION," Keynote Lecture, Proceedings of ANCRiSST, Bangalore, Indian Institute of Science, July 2012.

84. Attary, N., Symans, M., Nagarajaiah, S., Reinhorn, A., Constantinou, M.C., Taylor, D., Sarilis, A. A., Pasala, D. T. R. "SEISMICALLY-ISOLATED BRIDGE STRUCTURE WITH ADAPTIVE PASSIVE NEGATIVE STIFFNESS", Proc. Quake Summit, NSF CMMI Grantees Conference, 2012, Boston, published CDROM, July 2012.

85. Pasala, D. T. R., Sarlis, A. A. S., Nagarajaiah, S., Reinhorn, A. M., Constantinou, M. C., Taylor, D. "TESTING OF A NEW STRUCTURAL MODIFICATION APPROACH FOR SEISMIC PROTECTION USING NOVEL NEGATIVE STIFFNESS DEVICE", Invited Lecture, Proc. Quake Summit, NSF CMMI Grantees Conference, 2012, Boston, published CDROM, July 2012.

86. Kumar, M., Whittaker, A. S., and Constantinou, M. C. "RESPONSE PREDICTIONS FOR FRICTION PENDULUM BEARINGS CONSIDERING THE DEPENDENCE OF FRICTION ON AXIAL PRESSURE, TEMPERATURE AND VELOCITY", Proceedings of 22nd Structural Mechanics in Reactor Technology (SMiRT) Conference, San Francisco, USA, August 17-23, 2013.

87. Kumar, M., Whittaker, A. S. and Constantinou, M. C., "MECHANICAL PROPERTIES OF ELASTOMERIC SEISMIC ISOLATION BEARINGS FOR ANALYSIS UNDER EXTREME LOADINGS", Proceedings of 22nd Structural Mechanics in Reactor Technology (SMiRT) Conference, San Francisco, USA, August 17-23, 2013.

88. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Pasala, D.T.R. and Sarlis, A.A. "SHAKE TABLE TESTING OF A PASSIVE NEGATIVE STIFFNESS DEVICE IN A HIGHWAY BRIDGE MODEL FOR SEISMIC RESPONSE CONTROL AND

ASSOCIATED NUMERICAL SIMULATIONS," Proc. of the 6th World Conference on Structural Control and Monitoring, Barcelona, Spain, July, 2014.

89. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Pasala, D.T.R. and Sarlis, A.A. "PERFORMANCE ASSESSMENT OF A HIGHWAY BRIDGE STRUCTURE EMPLOYING ADAPTIVE NEGATIVE STIFFNESS FOR SEISMIC PROTECTION," Proc. of 2013 ASCE Structures Congress, Pittsburgh, PA, May, 2013.

90. McVitty, W.J. and Constantinou, M.C., "BOUNDING ANALYSIS FOR SEISMIC ISOLATORS: PROPERTY MODIFICATION FACTOR APPROACH OF ASCE 7-2016 AND ASCE 41-2017", 16th World Conference on Earthquake Engineering, Santiago, Chile, January 2017.

91. Manuel, E.A., Constantinou, M.C., Grigel, E., Bigelow, B.C., Terán, J. and Talison, B., "TELESCOPE PIER SEISMIC ISOLATION FOR THE GIANT MAGELLAN TELESCOPE", Proc. SPIE 10700, SPIE Astronomical Telescopes and Instrumentation, 2018, Austin, Texas.

92. Constantinou, M.C., "LIFETIME BEHAVIOR OF FRICTIONAL INTERFACES IN SEISMIC PROTECTIVE SYSTEMS", 18WCEE, Milan, Italy, July 2024.

93. Constantinou, M.C., "DEVELOPMENT, MODEL VALIDATION, AND IMPLEMENTATION OF A COMBINED HORIZONTAL-VERTICAL SEISMIC ISOLATION SYSTEM", 18WCEE, Milan, Italy, July 2024.

94. Constantinou, M.C., "TESTING OF SEISMIC ISOLATORS", 18WCEE, Milan, Italy, July 2024.

95. Lopez-Restrepo, S. and Constantinou, M.C., "SHAKE TABLE TESTING AND MODEL VALIDATION OF A SEISMIC ISOLATION SYSTEM FOR LIGHTWEIGHT STRUCTURES", 18WCEE, Milan, Italy, July 2024.

E. **Publication in Trade Magazines**

1. Constantinou, M.C., "DAMPING DANGER", Bridge Design & Engineering, 2nd Quarter, No. 11, 1998, pp. 33-36.
2. Constantinou, M.C., "SEISMIC ISOLATION OF THE MUSEUM OF THE ACROPOLIS", Ktirio Architecture and Technology, September 2009 issue, pp. 101-103.

F. **Reports**

1. Constantinou, M.C., "DYNAMIC INSTABILITY IN FOUR-BAR FLEXIBLE LINKAGES", Department of Civil Engineering, Rensselaer Polytechnic Institute, 1981.

2. Constantinou, M.C. "RANDOM VIBRATION AND OPTIMIZATION OF DESIGN OF SEISMIC BASE ISOLATION SYSTEMS", Department of Civil Engineering, Rensselaer Polytechnic Institute, 1984.

3. Constantinou, M.C. and Kneifati, M.C., "DYNAMICS OF SOIL-BASE-ISOLATED STRUCTURE SYSTEMS. REPORT 1: LINEAR SYSTEMS", Report to NSF, Drexel University, September 1986.

4. Siddiqui, F.M.A. and Constantinou, M.C., 'DYNAMICS OF SOIL-BASE-ISOLATED-STRUCTURE SYSTEMS. REPORT 2: MULTI-STORY LINEAR SYSTEMS", Report to NSF, Drexel University, July 1987.

5. Constantinou, M.C. and Kneifati, M.C., "DYNAMICS OF SOIL-BASE-ISOLATED-STRUCTURE SYSTEMS. REPORT 3: NONLINEAR SYSTEMS", Report to NSF, Drexel University, September 1987.

6. Constantinou, M.C. and Adnane, A-M, "DYNAMICS OF SOIL-BASE-ISOLATED-STRUCTURE SYSTEMS. REPORT 4: EVALUATION OF TWO MODELS FOR YIELDING SYSTEMS", Report to NSF, Drexel University, September 1987.

7. Constantinou, M.C., "OVERVIEW OF BASE ISOLATION STUDY TOUR OF JAPAN." Report to NCEER, University at Buffalo, SUNY, June 1988.

8. Mokha, A., Constantinou, M.C. and Reinhorn A.M., "TEFLON BEARINGS IN ASEISMIC BASE ISOLATION: EXPERIMENTAL STUDIES AND MATHEMATICAL MODELING,", Report No. NCEER-880038, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1988.

9. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "NONLINEAR TRANSIENT DYNAMIC ANALYSIS OF THREE-DIMENSIONAL BASE ISOLATED MULTISTORY STRUCTURES-PROGRAM 3-D BASIS," Report No. NCEER-890019, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1989.

10. Constantinou, M.C. and Mokha, A., "A MODEL OF FRICTION OF TEFLON SLIDING BEARINGS," Report to NSF, University at Buffalo, SUNY, April 1989.

11. Constantinou, M.C., "STOCHASTIC RESPONSE OF PRACTICAL SLIDING ISOLATION SYSTEMS", Report to NSF, University at Buffalo, SUNY, July 1989.

12. Constantinou, M.C., Reinhorn A.M., and Gu, X., "DISPLACEMENT CONTROL DEVICE FOR SEISMICALLY ISOLATED BRIDGES. PART I: DEVELOPMENT AND TESTING OF FRICTIONAL DEVICE", Report to Watson Bowman Acme Corporation and NSF, University at Buffalo, SUNY, July 1989.

13. Makris, N. and Constantinou, M.C., "ANALYSIS OF MOTION OF HARMONICALLY EXCITED SLIDING ISOLATION SYSTEMS", Report to NSF, University at Buffalo, SUNY, January 1990.

14. Mokha, A., Constantinou, M.C. and Reinhorn, A.M., "EXPERIMENTAL AND ANALYTICAL STUDY OF EARTHQUAKE RESPONSE OF A SLIDING ISOLATION SYSTEM WITH A SPHERICAL SURFACE" Report No. NCEER-90-0020, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1990.

15. Constantinou, M.C., Reinhorn, A.M. and Mokha, A., "A DISPLACEMENT CONTROL DEVICE FOR SEISMICALLY ISOLATED BRIDGES. PART II: TESTING OF DISPLACEMENT CONTROL DEVICE", Report to Watson Bowman Acme Corporation and NSF, University at Buffalo, SUNY, March 1990.

16. Constantinou, M.C., Mokha, A. and Reinhorn, A.M., "EXPERIMENTAL AND ANALYTICAL STUDY OF A COMBINED SLIDING DISC BEARING AND HELICAL STEEL SPRING ISOLATION SYSTEM," Report No. NCEER-90-0019, National Center for Earthquake Engineering Research, Buffalo, N.Y. 1990.

17. Manolis, G.D., Juhn, G., Constantinou, M.C. and Reinhorn, A.M., "SECONDARY SYSTEMS IN BASE-ISOLATED STRUCTURES: EXPERIMENTAL INVESTIGATION, STOCHASTIC RESPONSE AND STOCHASTIC SENSITIVITY," Report No. NCEER-90-0013, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1990.

18. Makris, N. and Constantinou, M.C., "VISCOUS DAMPERS: TESTING, MODELING AND APPLICATION IN VIBRATION AND SEISMIC ISOLATION," Report No. NCEER-90-0028, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1990.

19. Nagarajaiah, S., Reinhorn, A.M. and Constantinou, M.C., "3D-BASIS NONLINEAR DYNAMIC ANALYSIS OF THREE-DIMENSIONAL BASE ISOLATED STRUCTURES: PART II," Report No. NCEER-91-0005, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1991.

20. Tsopelas, P., Nagarajaiah, S., Constantinou, M.C. and Reinhorn, A.M., "3D-BASIS-M.: NONLINEAR DYNAMIC ANALYSIS OF MULTIPLE BUILDING BASE ISOLATED STRUCTURES," Report No. NCEER-91-0014, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1991.

21. Theodossiou, D., and Constantinou, M.C., "EVALUATION OF SEAOC DESIGN REQUIREMENTS FOR SLIDING ISOLATED STRUCTURES," Report No. NCEER-91-0015, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1991.

22. Constantinou, M.C., Kartoum, A., Reinhorn, A.M. and Bradford, P., "EXPERIMENTAL AND THEORETICAL STUDY OF A SLIDING ISOLATION SYSTEM FOR BRIDGES," Report No. NCEER-91-0027, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1991.

23. Demetriades, G.F., Constantinou, M.C. and Reinhorn, A.M., "STUDY OF WIRE ROPE SYSTEMS FOR SEISMIC PROTECTION OF EQUIPMENT IN BUILDINGS," Report No. NCEER-92-0012, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1992.

24. Constantinou, M.C. and Symans, M.D., "EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF SEISMIC RESPONSE OF STRUCTURES WITH SUPPLEMENTAL FLUID VISCOUS DAMPERS," Report No. NCEER-92-0032, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1992.

25. Winters, C.W. and Constantinou, M., "EVALUATION OF STATIC AND RESPONSE SPECTRUM ANALYSIS PROCEDURES OF SEAOC/UBC FOR SEISMIC ISOLATED STRUCTURES," Report No. NCEER-93-0004, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1993.

26. Constantinou, M.C., Tsopelas, P., Kim, Y-S. and Okamoto, S., "NCEER-TAISEI CORPORATION RESEARCH PROGRAM ON SLIDING SEISMIC ISOLATION SYSTEMS FOR BRIDGES - EXPERIMENTAL AND ANALYTICAL STUDY OF FRICTION PENDULUM SYSTEM (FPS),"

Report No. NCEER-93-0020, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1993.

27. Nagarajaiah, S., Li, C., Reinhorn, A.M. and Contantinou, M.C., "3D-BASIS-TABS COMPUTER PROGRAM FOR NONLINEAR DYNAMIC ANALYSIS OF THREE-DIMENSIONAL BASE ISOLATED STRUCTURES," Report No. NCEER-93-0011, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1993.

27. "REPORT OF THE JOINT RESEARCH PROJECT BETWEEN TAISEI CORP. AND NCEER CONCERNING THE DEVELOPMENT OF ISOLATION SYSTEMS FOR BRIDGES-SHAKE TABLE TESTING OF PASSIVE SLIDING TYPE ISOLATION SYSTEMS," Technology Research Center, Taisei Corporation, Japan, 1993, (in Japanese).

29. Okamoto, S., Ozaki, D., Fujii, S., Constantinou, M.C. and Tsopelas, P. "SHAKE TABLE TEST OF A MODEL BRIDGE WITH SLIDING TYPE ISOLATION SYSTEMS (TASS Bridge System).", Taisei Technology Research Report No. 26, Japan, pp. 255, December 1993.

30. Tsopelas, P., Okamoto, S., Constantinou, M.C., Ozaki, D. and Fujii, S., "NCEER-TAISEI CORPORATION RESEARCH PROGRAM ON SLIDING SEISMIC ISOLATION SYSTEMS FOR BRIDGES - EXPERIMENTAL AND ANALYTICAL STUDY OF SYSTEMS CONSISTING OF SLIDING BEARINGS, RUBBER RESTORING FORCE DEVICES AND FLUID DAMPERS," Report No. NCEER-94-0002, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1994.

31. Al-Hussaini, T.M., Zayas, V.A. and Constantinou, M.C., "SEISMIC ISOLATION OF MULTI-STORY FRAME STRUCTURES USING SPHERICAL SLIDING ISOLATION SYSTEMS," Report No. NCEER-94-0007, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1994.

32. Tsopelas, P.C., Constantinou, M.C. and Reinhorn, A.M. "3-D-BASIS-ME: COMPUTER PROGRAM FOR THE NONLINEAR ANALYSIS OF SEISMICALLY ISOLATED SINGLE AND MULTIPLE BUILDING STRUCTURES AND LIQUID STORAGE TANKS," Report No. NCEER-94-0010, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1994.

33. Tsopelas, P.C. and Constantinou, M.C., "NCEER-TAISEI CORPORATION RESEARCH PROGRAM ON SLIDING ISOLATION SYSTEMS FOR BRIDGES: EXPERIMENTAL AND ANALYTICAL STUDY OF SYSTEM CONSISTING OF SLIDING BEARINGS AND FLUID RESTORING FORCE/DAMPING DEVICES," Report No. NCEER-94-0014, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1994.

34. Lambrou, V. and Constantinou, M.C., "STUDY OF SEISMIC ISOLATION SYSTEMS FOR COMPUTER FLOORS," Report No. NCEER-94-0020, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1994.

35. Tsopelas, P.C. and Constantinou, M.C., "NCEER-TAISEI CORPORATION RESEARCH PROGRAM ON SLIDING ISOLATION SYSTEMS FOR BRIDGES: EXPERIMENTAL AND ANALYTICAL STUDY OF SYSTEM CONSISTING OF LUBRICATED PTFE SLIDING BEARINGS AND MILD STEEL DAMPERS," Report No. NCEER-94-0022, National Center for Earthquake Engineering, Buffalo, N.Y., 1994.

36. Reinhorn, A.M., Nagarajaiah, S., Constantinou, M.C., Tsopelas, P. and Li, R., "3D-BASIS-TABS: VERSION 2.0 COMPUTER PROGRAM FOR NONLINEAR DYNAMIC ANALYSIS OF THREE DIMENSIONAL BASE ISOLATED STRUCTURES," Report No. NCEER-94-0018, National Center for Earthquake Engineering Research, Buffalo, NY, 1994.

37. Reinhorn, A.M., Li, C. and Constantinou, M.C., "EXPERIMENTAL AND ANALYTICAL STUDY OF SEISMIC RETROFIT OF STRUCTURES WITH SUPPLEMENTAL DAMPING. PART I: FLUID VISCOUS DAMPING DEVICES," Report No. NCEER-95-0001, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1995.

38. Symans, M.D. and Constantinou, M.C., "DEVELOPMENT AND EXPERIMENTAL STUDY OF SEMI-ACTIVE FLUID DAMPING DEVICES FOR SEISMIC PROTECTION OF STRUCTURES," Report No. NCEER-95-0011, National Center for Earthquake Engineering Research, Buffalo, N.Y., 1995.

39. Seleemah, A.A. and Constantinou, M.C., "INVESTIGATION OF SEISMIC RESPONSE OF BUILDINGS WITH LINEAR AND NONLINEAR FLUID VISCOUS DAMERS," Report No. NCEER-97-0004, National Center for Earthquake Engineering Research, Buffalo, NY, 1997.

40. Tsopelas, P., Constantinou, M.C., Kircher, C.A. and Whittaker, A.S., "EVALUATION OF SIMPLIFIED METHODS OF ANALYSIS FOR YIELDING STRUCTURES," Report No. NCEER-97-0012, National Center for Earthquake Engineering Research, Buffalo, NY, 1997.

41. Constantinou, M.C., Tsopelas, P. and Hammel, W., "TESTING AND MODELING OF AN IMPROVED DAMPER CONFIGURATION FOR STIFF STRUCTURAL SYSTEMS," Report of the Center for Industrial Effectiveness, Buffalo, NY, 1997.

42. Constantinou, M.C. and Quarshie, J.K., "RESPONSE MODIFICATION FACTORS FOR SEISMICALLY ISOLATED BRIDGES", Report No. MCEER-98-0014, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 1998.

43. Friedland, I.M. and Constantinou, M.C. (editors), "PROCEEDINGS OF THE U.S.-ITALY WORKSHOP ON SEISMIC PROTECTIVE SYSTEMS FOR BRIDGES," Report No. MCEER-98-0015, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 1998.

44. Scheller, J. and Constantinou, M.C., "RESPONSE HISTORY ANALYSIS OF STRUCTURES WITH SEISMIC ISOLATION AND ENERGY DISSIPATION SYSTEMS: VERIFICATION EXAMPLES FOR PROGRAM SAP 2000," Report No. MCEER-99-0002, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 1999.

45. Kasalanati, A. and Constantinou, M.C., "EXPERIMENTAL STUDY OF BRIDGE ELASTOMERIC AND OTHER ISOLATION AND ENERGY DISSIPATION SYSTEMS WITH EMPHASIS ON UPLIFT PREVENTION AND HIGH VELOCITY NEAR-SOURCE SEISMIC EXCITATION," Report No. MCEER-99-0004, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 1999.

46. Constantinou, M.C., Tsopelas, P., Kasalanati, A. and Wolff, E.D., "PROPERTY MODIFICATION FACTORS FOR SEISMIC ISOLATION BEARINGS", Report No. MCEER-99-0012, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 1999.

47. Ramirez, O.M., Constantinou, M.C., Kircher, C.A., Whittaker, A.S., Johnson, M.W., Gomez, J.D., and C.Z. Chrysostomou, "DEVELOPMENT AND EVALUATION OF SIMPLIFIED PROCEDURES FOR ANALYSIS AND DESIGN OF BUILDINGS WITH PASSIVE ENERGY DISSIPATION SYSTEMS", Report No. MCEER-00-0010, Revision 1, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2001.

48. Roussis, P.C., Constantinou, M.C., Erdik, M., Durukal, E.and Dicleli, M., "ASSESSMENT OF PERFORMANCE OF BOLU VIADUCT IN THE 1999 DUZCE EARTHQUAKE IN TURKEY", Report No. MCEER-02-0001, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2002.

49. Wolff, E.D. and Constantinou, M.C., "EXPERIMENTAL STUDY OF SEISMIC ISOLATION SYSTEMS WITH EMPHASIS ON SECONDARY SYSTEM RESPONSE AND VERIFICATION OF ACCURACY OF DYNAMIC RESPONSE HISTORY ANALYSIS METHODS", Report No. MCEER-04-0001, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2004.

50. Warn, G., Constantinou, M.C. and Whittaker, A., "STATUE OF HERMES, FRICTION PENDULUM BEARING TESTING REPORT," Report No. UB/CSEE/SEESL-2004-01, Department of Civil, Structural and Environmental Engineering, University at Buffalo, Buffalo, NY, February 2004.

51. Pavlou, E. and Constantinou, M.C., "EVALUATION OF ACCURACY OF SIMPLIFIED METHODS OF ANALYSIS AND DESIGN OF BUILDINGS WITH DAMPING SYSTEMS FOR NEAR-FAULT AND FOR SOFT-SOIL SEISMIC MOTIONS", Report No. MCEER-04-0008, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2004.

52. Sigaher-Boyle, A.N. and Constantinou, M.C., "SCISSOR-JACK DAMPER ENERGY DISSIPATION SYSTEM", Report No. MCEER-04-0010, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2004.

53. Roussis, P.C.and Constantinou, M.C., "EXPERIMENTAL AND ANALYTICAL STUDIES OF STRUCTURES SEISMICALLY ISOLATED WITH AN UPLIFT-RESTRAINT ISOLATION SYSTEM", Report No. MCEER-05-0001, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2005.

54. Aref, A., Bruneau, M., Constantinou, M., Filiatrault, A., Lee, G., Reinhorn, A., Whittaker, A., "SEISMIC RESPONSE MODIFICATION OF STRUCTURAL AND NON-STRUCTURAL SYSTEMS AND COMPONENTS IN ACUTE CARE FACILITIES," MCEER / Research Progress and Accomplishments Volume, 2004, 95-121.

55. Tsopelas, P.C., Roussis, P.C., Constantinou, M.C, Buchanan, R. and Reinhorn, A.M., "3D-BASIS-ME-MB: COMPUTER PROGRAM FOR NONLINEAR DYNAMIC ANALYSIS OF SEISMICALLY ISOLATED STRUCTURES", Report No. MCEER-05-0009, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2005.

56. Constantinou, M.C., Whittaker, A.S., Kalpakidis, Y., Fenz, D. M. and Warn, G.P.," PERFORMANCE OF SEISMIC ISOLATION HARDWARE UNDER SERVICE AND SEISMIC LOADING", Report No. MCEER-07-0012, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2007.

57. Constantinou, M.C., Whittaker, A.S., Fenz, D. M. and Apostolakis, G.,"SEISMIC ISOLATION OF BRIDGES", Report to Caltrans, Version 2, Department of Civil, Structural and Environmental Engineering, University at Buffalo, June, 2007.

58. Fenz, D.M. and Constantinou, M.C.,"MECHANICAL BEHAVIOR OF MULTI-SPHERICAL SLIDING BEARINGS", Report No. MCEER-08-0007, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2008.

59. Fenz, D.M. and Constantinou, M.C.,"DEVELOPMENT, IMPLEMENTATION AND VERIFICATION OF DYNAMIC ANALYSIS MODELS FOR MULTI-SPHERICAL SLIDING BEARINGS", Report No. MCEER-08-0018, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2008.

60. Kalpakidis I.V. and Constantinou, M.C., "EFFECTS OF HEATING AND LOAD HISTORY ON THE BEHAVIOR OF LEAD-RUBBER BEARINGS," Report No. MCEER-08-0027, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2008.

61. Sarlis, A.A., Tsopelas, P.C., Constantinou, M.C. and Reinhorn, A.M., "3D-BASIS-ME-MB: COMPUTER PROGRAM FOR NONLINEAR DYNAMIC ANALYSIS OF SEISMICALLY ISOLATED STRUCTURES, Element for Triple Pendulum Isolator and Verification Examples", supplement to MCEER Report 05-009, document distributed to the engineering community together with executable version of program and example files, University at Buffalo, 2009.

62. Sarlis, A.A. and Constantinou, M.C., "MODELING TRIPLE FRICTION PENDULUM ISOLATORS IN PROGRAM SAP2000", document distributed to the engineering community together with example files, University at Buffalo, 2010. https://figshare.com/articles/presentation/Modeling_triple_friction_pendulum_isolators_in_program_SAP2000/25139669

63. Constantinou, M.C., Kalpakidis, I., Filiatrault, A. and Ecker Lay, R. A., "LRFD-BASED ANALYSIS AND DESIGN PROCEDURES FOR BRIDGE BEARINGS AND SEISMIC ISOLATORS", Report No. MCEER-11-0004, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2011.

64. Cui, S, Bruneau, M. and Constantinou, M.C., "INTEGRATED DESIGN METHODOLOGY FOR ISOLATED FLOOR SYSTEMS IN SINGLE-DEGREE-OF-FREEDOM STRUCTURAL FUSE SYSTEMS", Report No. MCEER-12-0004, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2012.

65. Basu, D., Whittaker, A.S. and Constantinou, M.C., "CHARACTERIZING THE ROTATIONAL COMPONENTS OF EARTHQUAKE GROUND MOTION", Report No. MCEER-12-0005, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2012.

66. Pasala, D., Sarlis, A.A., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., and Taylor, D.P.,

SEISMIC RESPONSE CONTROL OF STRUCTURES USING A NOVEL ADAPTIVE PASSIVE NEGATIVE STIFFNESS DEVICE, Report No. MCEER-13-0004, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2013.

67. Sarlis, A.A., Pasala, D., Constantinou, M.C., Reinhorn, A.M., Nagarajaiah, S. and Taylor, D.P., NEGATIVE STIFFNESS DEVICE FOR SEISMIC PROTECTION OF STRUCTURES, Report No. MCEER-13-0005, Multidisciplinary Center for Earthquake Engineering Research, Buffalo, NY, 2013.

68. Sarlis, A.A., Constantinou, M.C. and Reinhorn, A.M.," SHAKE TABLE TESTING OF TRIPLE FRICTION PENDULUM ISOLATORS UNDER EXTREME CONDITIONS", Technical Report No. MCEER-13-0011, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2013.

69. Sarlis, A.A. and Constantinou, M.C.,"MODEL OF TRIPLE FRICTION PENDULUM BEARING FOR GENERAL GEOMETRIC AND FRICTIONAL PARAMETERS AND FOR UPLIFT CONDITIONS", Technical Report No. MCEER-13-0010, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2013.

70. Attary, N., Symans, M.D., Nagarajaiah, S., Reinhorn, A.M., Constantinou, M.C., Taylor, D., Pasala, D.T.R. and Sarlis A.A. "SEISMIC PROTECTION OF HIGHWAY BRIDGES WITH NEGATIVE STIFFNESS DEVICES," Technical Report MCEER 13-0013, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2013.

71. McVitty, W.J. and Constantinou, M.C., "PROPERTY MODIFICATION FACTORS FOR SEISMIC ISOLATORS: DESIGN GUIDANCE FOR BUILDINGS", Technical Report No. MCEER-15-0005, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2015.

72. Kumar, M., Whittaker, A.S, and Constantinou, M.C., "SEISMIC ISOLATION OF NUCLEAR POWER PLANTS USING SLIDING BEARINGS", Technical Report No. MCEER-15-0006, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2015.

73. Lee, D. and Constantinou, M.C., "QUINTUPLE FRICTION PENDULUM ISOLATOR BEHAVIOR, MODELING AND VALIDATION", Technical Report MCEER 15-0007, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2015.

74. Kumar, M., Whittaker, A.S, and Constantinou, M.C., "SEISMIC ISOLATION OF NUCLEAR POWER PLANTS USING ELASTOMERIC BEARINGS", Technical Report No. MCEER-15-0008, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2015.

75. Kitayama, S. and Constantinou, M.C., "DEVELOPMENT AND EVALUATION OF PROCEDURES FOR ANALYSIS AND DESIGN OF BUILDINGS WITH FLUIDIC SELF-CENTERING SYSTEMS", Technical Report No. MCEER-16-0003, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2016.

76. Kitayama, S., Constantinou, M.C. and Lee, D., “PROCEDURES AND RESULTS OF ASSESSMENT OF SEISMIC PERFORMANCE OF SEISMICALLY ISOLATED ELECTRICAL TRANSFORMERS WITH DUE CONSIDERATION FOR VERTICAL ISOLATION AND VERTICAL GROUND MOTION EFFECTS”, Technical Report No. MCEER-16-0010, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2016.

77. Oikonomou, K., Constantinou, M.C, A.M. Reinhorn, A.M. and Kempner, L. Jr., “SEISMIC ISOLATION OF HIGH VOLTAGE ELECTRICAL POWER TRANSFORMERS”, Technical Report No. MCEER-16-0006, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2016.

78. Polat, E. and Constantinou, M.C., “OPEN SPACE DAMPING SYSTEM THEORY AND EXPERIMENTAL VALIDATION”, Technical Report No. MCEER-16-0007, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2016.

79. Lee, D. and Constantinou, M.C., “DEVELOPMENT AND VALIDATION OF COMBINED HORIZONTAL–VERTICAL SEISMIC ISOLATION SYSTEM FOR HIGH-VOLTAGE POWER TRANSFORMERS”, Technical Report No. MCEER-17-0007, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2017.

80. Kitayama, S. and Constantinou, M.C., “SEISMIC PERFORMANCE ASSESSMENT OF SEISMICALLY ISOLATED BUILDINGS DESIGNED BY THE PROCEDURES OF ASCE/SEI 7”, Technical Report No. MCEER-18-0004, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2018.

81. Cilsalar, H. and Constantinou M.C., “DEVELOPMENT AND VALIDATION OF A SEISMIC ISOLATION SYSTEM FOR LIGHTWEIGHT RESIDENTIAL CONSTRUCTION”, Technical Report No. MCEER-19-0001, Multidisciplinary Center for Earthquake Engineering Research, University at Buffalo, State University of New York, Buffalo, NY, 2019.

82. Kammerer, A. M., Whittaker, A. S., and Constantinou, M. C. (2019). "TECHNICAL CONSIDERATIONS FOR SEISMIC ISOLATION OF NUCLEAR FACILITIES." Report NUREG/CR 7253, United States Nuclear Regulatory Commission, Washington, D.C.

83. Kumar, M.., Whittaker, A. S., and Constantinou, M. C. (2019). " SEISMIC ISOLATION OF NUCLEAR POWER PLANTS USING SLIDING BEARINGS." Report NUREG/CR 7254, United States Nuclear Regulatory Commission, Washington, D.C.

84. Kumar, M.., Whittaker, A. S., and Constantinou, M. C. (2019). " SEISMIC ISOLATION OF NUCLEAR POWER PLANTS USING ELASTOMERIC BEARINGS." Report NUREG/CR 7255, United States Nuclear Regulatory Commission, Washington, D.C.

85. Kitayama, S. and Constantinou, M.C., “FURTHER RESULTS ON THE ASSESSMENT OF PERFORMANCE OF SEISMICALLY ISOLATED ELECTRICAL TRANSFORMERS”, Technical Report No. MCEER-20-0002, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2020.

86. Kim, H-M. and Constantinou, M.C., "MODELING TRIPLE FRICTION PENDULUM BEARINGS IN PROGRAM OPENSEES INCLUDING FRICTIONAL HEATING EFFECTS", Technical Report No. MCEER-22-0001, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2022.

87. Mir, F. U-H., Yu, C-C, Whittaker, A.S. and Constantinou, M.C., "PHYSICAL AND NUMERICAL SIMULATIONS OF SEISMIC FLUID-STRUCTURE INTERACTION IN ADVANCED NUCLEAR REACTORS", Technical Report No. MCEER-22-0002, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2022.

88. Kim, H-M. and Constantinou, M.C., "DEVELOPMENT OF PERFORMANCE-BASED TESTING SPECIFICATIONS FOR SEISMIC ISOLATORS", Technical Report No. MCEER-23-0002, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2023.

89. Lopez Restrepo, S. and Constantinou, M.C., "SHAKE TABLE TESTING AND MODEL DEVELOPMENT AND VALIDATION OF A SEISMIC ISOLATION SYSTEM FOR LIGHTWEIGHT STRUCTURES", Technical Report No. MCEER-24-0002, Multidisciplinary Center for Earthquake Engineering Research, State University of New York at Buffalo, Buffalo, NY, 2024.

H. **Citations of Work in Newspapers and Magazines**

1. "STANDING UP TO EARTHQUAKES", New Scientist, Feb. 16, 1991.

2. "BRIDGE THAT CAN SURVIVE MAJOR EARTHQUAKE, "Inside R & D, Feb. 27, 1991.

3. "TEFLON BRIDGE SYSTEM DEVELOPED, SOLD HERE EASES QUAKE THREAT," The Sunday Buffalo News, March 3, 1991.

4. "DESIGNING BRIDGES THAT STAND UP TO QUAKES," Business Week Magazine, March 4, 1991.

5. "ANTIQUAKE DESIGNS CAN TAKE A LICKING," Insight Magazine, March 25, 1991.

6. "SHOCK ABSORBER FOR BRIDGES," The Christian Science Monitor, May 8, 1991.

7. "INNOVATIVE BRIDGE SYSTEM DESIGNED AT BUFFALO," The Voice, Vol. 18 (9), May 1991.

8. "NCEER, CALTRANS STUDY SEISMIC BRIDGE RETROFIT," Civil Engineering, ASCE, Vol. 61 (6), June 1991.

9. "LAGERS EN SCHOKDEMPERS MAKEN BRUGGEN IN VS BEVINGBESTENDIG" (BEARINGS AND SHOCK DAMPERS MAKE BRIDGES IN U.S. EARTHQUAKE PROOF), POLYTECHNISCH WEEKBLAD, 31/32, Hague, Netherlands, 1991.

10. "QUAKE-RESISTANT BUILDING COULD DANCE WITH THE BIG ONE," Engineering Times, Vol. 13 (8), August 1991.

11. "SEISMIC ISOLATORS STAND UP TO SHAKING," UB Research, Vol. 1(2), Summer 1991.

12. "TAYLOR DEVICES REPORTS A SMALL PROFIT", The Buffalo News, July 13, 1992

13. "AREA FIRM, UB FIND PROTECTION AGAINST QUAKES," The Buffalo, News, June 13, 1993.

14. "A BRACING WAY TO GIRD BUILDINGS AGAINST QUAKES," Business Week Magazine, June 28, 1993.

15. "TAKING THE SHOCK OUT OF QUAKES," UB TODAY, Vol. 12, No. 2, September 1993.

16. "UB QUAKE TEAM DOES ITS JOB WITHOUT MAKING BIG WAVES," Business First, Week of September 6, 1993.

17. "MANY COMPANIES ARE THRIVING ON RELATIONSHIP WITH UB," The Buffalo News, September 13, 1993.

18. "DEFENSE TECHNOLOGY CURES THE SHAKES", Machine Design, October 22, 1993.

19. "TAYLOR DEVICES WINS MEDICAL CENTER PACT", The Buffalo News, November 9, 1993.

20. "UB RESEARCH MAY PROTECT COURTHOUSE", The Buffalo News, November 10, 1993.

21. "PENDULUM THEORY OF QUAKE PROTECTION," Science, Vol. 262, December 3, 1993.

22. "UB RESEARCH FEELS PAIN OF BUDGET CUTS", The Buffalo News, December 25, 1993.

23. "THIS COURTHOUSE WILL SWING", UB Research, Vol. 3, No. 4, Winter 1994.

24. "A NEW KIND OF DEFENSE INDUSTRY," UB Research, Vol. 3, No. 4, Winter 1994.

25. "CITY BEAUTIFUL," SUNY Research, Vol. 14(1), Winter 1994.

26. 'HIGH-TECH BREAKTHROUGHS: SHOCK ABSORBERS FOR BUILDINGS," Boardroom Reports, February 1, 1994.

27. "IN A QUAKE, THIS PLACE WILL ROLL, NOT ROCK," The Boston Globe, April 18, 1994.

28. "SWINGING COURTHOUSE," Popular Science, May 1994.

29. "TAYLOR DEVICES SEEKS FINANCING FOR MANUFACTURING EXPANSION," Business First, Buffalo, N.Y., Vol. 10 (28), April 25, 1994.

30. "A STEP AHEAD OF MOTHER NATURE", Graduating Engineer, Vol. 16, No. 1, September 1994.

31. “HOSPITAL GIRDS FOR QUAKE,” Engineering News Record, September 11, 1995.

32. "EARTHQUAKE CENTER PROVES UB's IMPORTANCE TO BUSINESS," The Buffalo News, June 2, 1996.

33. "NEW QUAKE DEVICE IS FOR SHORTER STRUCTURES", The Niagara Gazette, June 10, 1997.

34. "STUDENTS ANALYZE AIRPORT TERMINAL'S ABILITY TO WITHSTAND QUAKES", Civil Engineering, ASCE, January 1998.

35. "TAYLOR DEVICES GETS PACTS FOR SEISMIC-PROTECTION PRODUCTS", The Buffalo News, January 7, 2000.

36. "SCIENTISTS FINISH EARTHQUAKE-PROOFING ISTANBUL AIRPORT ROOF", Daily University Science News, carried by *Yahoo*, http://fullcoverage.yahoo.com/fc/Science/Earthquakes_and_Seismology/ , January 10, 2000.

37. "TURKEY'S TERMINAL GOES SEISMIC", Engineering News Record, January 17, 2000.

38. "TERMINAL ROOF GETS FAST-TRACK SEISMIC UPGRADE AFTER EARTHQUAKE", Civil Engineering, ASCE, March 2000.

39. "AIRPORT FEATURES A SEISMIC RETROFIT DURING CONSTRUCTION", Modern Steel Construction, American Institute of Steel Construction, August 2000.

40. "RESEARCH CENTER TO BOLSTER CAPABILITIES", Civil Engineering, ASCE, May 2001.

41. "ARCHITECTS, ENGINEERS, AND EDUCATORS WORK IN TANDEM ON TEMPLE DESIGN," Civil Engineering, ASCE, March 2004.

42. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," EurekAlert, http://www.eurekalert.org/pub_releases/2005-02/uab-aso020105.php, February 1, 2005.

43. "EARTHQUAKE PROTECTED ANCIENT STATUE OF HERMES," PhysOrg.com, http://www.physorg.com/news2907.html, February 2, 2005.

44. "EARTHQUAKE PROTECTED ANCIENT STATUE OF HERMES," iCivilEngineer.com-The Civil Engineering Portal, http://www.icivilengineer.com/News/Engineering/, February 2, 2005.

45. "NEW YORK ENGINEERS HELP PROTECT STATUE", India Science and Technology News, http://news.newkerala.com/technology-news-india/index.php?action=fullnews&id=68053, February 2, 2005.

46. "EARTHQUAKE PROTECTED ANCIENT STATUE OF HERMES," Science News Daily, http://www.sciencenewsdaily.org/story-2907.html, February 2, 2005.

47. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Zinken, Links to World Wide Archeology, http://zinken.typepad.com/palaeo/2005/02/ancient_statue_.html, February 2, 2005.

48. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Earth Science News, http://www.wwnorton.com/college/geo/science_enews/news_recent.asp, February 3, 2005.

49. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Newswise, http://www.newswise.com/articles/view/509641/, February 3, 2005.

50. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Archaeological News, http://www.archaeologica.org/NewsPage.htm, February 4, 2005.

51. "EARTHQUAKE PROTECTED ANCIENT STATUE OF HERMES," Iranian Cultural Heritage News Agency, http://www.chn.ir/english/eshownews.asp?no=4729, February 4, 2005.

52. "PREVENTING THE FALL OF A GOD", Live Science, http://www.livescience.com/imageoftheday/siod_050208.html#text, February 8, 2005.

53. "ANCIENT STATUE FINDS A HELPING HAND AGAINST QUAKES WITH INNOVATIVE TECHNOLOGY," 361° Tech News, http://www.three-sixty-one-degrees.com/tech/050209statue.htm, February 9, 2005.

54. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Science Daily, http://www.sciencedaily.com/releases/2005/02/050205105724.htm, February 14, 2005.

55. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Science News Room/History, http://www.hallagulla.com/vb3/archive/index.php/t-63710.html, February 14, 2005.

56. "HERMES FITTED FOR QUAKE PROTECTION", UB Reporter, Vol. 36, No.2, Feb. 17, 2005.

57. "PROTECTING HERMES FROM EARTHQUAKES", Rogue Classicism, http://www.atrium-media.com/rogueclassicism/2005/02/03.html, March 1, 2005.

58. "ANCIENT STATUE OF HERMES FITTED FOR EARTHQUAKE PROTECTION," Ultimate Science, http://www.uscience.xro.us/content/view/39/62, March 2, 2005.

59. "SEISMICALLY OUTFITTING HERMES," Geotimes, Vol. 50, No. 4, April 2005.

60. "SHAKEN, NOT STIRRED", UB Today, Spring/Summer 2005.

61. "ISTANBUL OPENS WORLD'S LARGEST EARTHQUAKE-SAFE BUILDING", Wired Science, http://www.wired.com/wiredscience/2009/11/worlds-largest-earthquake-safe-building/, November 20, 2009.

62. "IN SEARCH OF AN EARTHQUAKE-PROOF BUILDING", CNN Tech, http://us.cnn.com/2010/TECH/03/02/earthquake.resistant.building/index.html?hpt=C2 , March 2, 2010.

63. "AFTEREFFECTS: HOW JAPAN CAN IMPROVE ITS EARTHQUAKE, TSUNAMI DEFENSES," InnovationNewsDaily, March 14, 2011, http://www.innovationnewsdaily.com/tsunami-earthquake-defense-rebuild-1805/.

64. “CAN EXTREME ENGINEERING SAVE NUCLEAR PLANTS FROM DISASTERS?”, InnovationNewsDaily, March 15, 2011, http://www.innovationnewsdaily.com/nuclear-power-earthquake-tsunami-engineering-1810/.

65. “THE 10 LARGEST BASE-ISOLATED BUILDINGS IN THE WORLD”, ENR, July 17, 2017, http://www.enr.com/articles/42366-the-10-largest-base-isolated-buildings-in-the-world

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