

CURRICULUM VITAE
MICHAEL C. CONSTANTINOU

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CURRENT AFFILIATION:

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.

Co-Director, Structural Engineering and Earthquake Simulation Laboratory, University at Buffalo, State University of New York, 1997 to 2004.

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 design, 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; San Bernardino County Medical Center Replacement Project; Queensboro Bridge, NY; ISP Chemicals Tanks, Kentucky; University Bridge, Seattle; San Francisco Airport International Terminal; Corinth Canal Railway Bridge, Greece; Rion-Antirion Cable-Stayed Bridges, Greece; Caltrans SRMD Test Facility; JFK Roadways, NY; Beijing Railway Station, China; Hearst Mining Building, Berkeley; Rion-Antirion Approach Viaduct, Greece; Santa Clara Police Facility, CA; Yerba Buena Tower, San Francisco; 196th Street Bridge, Seattle; Woodrow-Wilson Bridge, Washington, D.C; Ataturk International Airport Terminal, 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 Timber Structures, Cyprus; Centre Administratif Pictet-Acacias, Switzerland; CYTA Seismic Rehabilitation Projects (13 buildings), Cyprus; Orlan Gas Platform (ExxonMobil), Russia; Piltun Gas Platform (Shell), Lunskeye Gas Platform (Shell), Russia; Willamette River Bridge, Oregon; Stutson Bridge, Rochester, NY; Grand Street Bridge, NJ Turnpike; King County Courthouse, Seattle, WA; Olympic Committee Building, Cyprus; New de Young Museum, San Francisco, CA; Oakland Cathedral, Oakland, CA, Bahai Temple, Chile; Tarabya Hotel, Turkey; Statue of Hermes, Greece; Nordstrom South Coast Plaza, Costa Mesa, CA; LNG Tanks, Long Beach, CA; George Washington Bridge, WA; Dafni Railway Bridge, Greece; Mills Peninsula Hospital, Burlingame, CA; Washington Hospital, Fremont, CA; CPMC Hospital, San Francisco, CA; Erzurum Hospital, Turkey; 11th Avenue Bridge, NYC; Limassol Public Library, Cyprus; Arkuntun-Dagi Oil and Gas Platform (ExxonMobil), Russia; Riviere des Prairies Bridge, Montreal, Canada; Jin Nam 3rd Bridge, Korea; New Yang Soo Grand Bridge, Korea.

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.

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.

PROFESSIONAL ACTIVITIES:

A. Instructor of Professional Courses

Drexel University
Finite Elements with Computer Graphics, 1985.

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
American Society of Mechanical Engineers, Journal of Applied Mechanics
Engineering Structures

Earthquake Spectra
International Journal of Solids and Structures
Mechanics of Structures and Machines
Structural Engineering and Mechanics
Advances in Structural Engineering

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-present.

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 and ASCE 7-05 for year 2005, 2000-present.

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

Member, Subcommittee 2, Development of 2008 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, 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) |
- B. Graduate
- | | |
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| 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 Theodossiou, "Evaluation of SEAOC Design Requirements for Sliding Isolated Structures," M.S., December 1990, University at Buffalo, SUNY.
9. Panayiotis Tsopeas, "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 Tsopeas, "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, "Adaptive Seismic Isolation Bearings", Ph.D., expected 2008, University at Buffalo, SUNY.
34. Yiannis Kalpakidis, "Heating and History of Loading Effects on Behavior of Lead-Rubber Bearings," Ph.D., expected 2008, 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. Mr. Daisuku Ozaki, Taisei Corp., Japan, Visiting Research Engineer, May 1992-May 1993.
5. Dr. Panayiotis Tsopeles, Research Scientist, August 1994-1998.
6. Mr. 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. Mr. 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 February 2008.
14. Mr. Fabio Fadi, University of Udine, Italy, January 2008 to August 2008.

15. **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 (part of \$1.14 M project)	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
32. 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 Operations at UB (with M. Bruneau, A.M. Reinhorn,	NSF	\$7,373,625	10/1/04-9/30/09

S. Thevanayagam, A. Filiatrault and A.S. Whittaker)

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

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

* Watson Bowman Acme Corporation, N.Y., GERB Vibration Control, Germany, Newport Corporation, CA, Earthquake Protection Systems Inc., CA, SUN Microsystems, CA, Aeroflex International, N.Y., Taylor Devices, Inc., N.Y., SVP, Inc., N.J., ALGA, Italy.

PATENTS:

1. HIGHLY EFFECTIVE ENERGY DISSIPATION APPARATUS, inventor: Michael C. Constantinou, assignee: Research Foundation of State University of New York, United States Patent 6,438,905, issued August 28, 2002.

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.

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A. Refereed Journals

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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. Reviewed 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. 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.
4. 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.
5. Makris, N., Constantinou, M.C. and Hueffmann, G., "TESTING AND MODELING OF VISCOUS DAMPERS," 1991 ASME PVP Conference, San Diego, CA, June 1991.
6. 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.**
7. 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.
8. 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.
9. 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.
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