

CURRICULUM VITAE

Richard K. Miller

CURRENT TITLE President (and first employee)
Professor of Mechanical Engineering

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PERSONAL Birthplace: Fresno, CA, USA
Family: Married (1971), 2 children

EDUCATION California Institute of Technology
Ph.D., Applied Mechanics, 1976

Massachusetts Institute of Technology
M.S., Mechanical Engineering, 1972

University of California, Davis
B.S., Aerospace Engineering, 1971 (Highest Honors)

ACADEMIC POSITIONS

FRANKLIN W. OLIN COLLEGE OF ENGINEERING

1999-Present President (and first employee)
1999-Present Professor of Mechanical Engineering

UNIVERSITY OF IOWA

1992-1999 Dean, College of Engineering
1992-1999 Professor of Civil and Environmental Engineering

UNIVERSITY OF SOUTHERN CALIFORNIA

1989-1992 Associate Dean of Engineering (Academic Affairs)
1985-1992 Professor of Civil Engineering and of Aerospace
Engineering
1984-1985 Associate Professor of Civil Engineering and of
Aerospace Engineering
1982-1984 Associate Professor and Administrative Officer of
Civil Engineering
1979-1982 Associate Professor of Civil Engineering

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

July 1, 1979 Declined promotion to Associate Professor with tenure
to accept position at USC
Jan, 1976-1979 Assistant Professor of Mechanical and Environmental
Engineering
Sep-Dec, 1975 Acting Assistant Professor of Mechanical and
Environmental Engineering

SELECTED RECENT PROFESSIONAL ACTIVITIES

ALU Global Advisory Council – African Leadership Group
Member (2015 – Present)

ASSOCIATION OF INDEPENDENT COLLEGES AND UNIVERSITIES OF MASSACHUSETTS
Member (2006 – Present; Executive Committee, 2006 – 2009)

ASSOCIATION OF INDEPENDENT TECHNOLOGICAL UNIVERSITIES
Member (1999 – Present; Chair, 2007 – 2009; Past Chair 2009 – 2010)

BABSON COLLEGE, Babson Park, MA
Board of Trustees (Member, 2001 – 2018)

BUSINESS HIGHER EDUCATION FORUM
Member (2013 – 2015)

CALIFORNIA POLYTECHNIC STATE UNIVERSITY, SAN LUIS OBISPO
College of Engineering Dean’s Advisory Committee (Member, 2006 – 2010)

CENTER FOR CURRICULUM REDESIGN, Cambridge, MA
Board of Advisors (Member 2011 – Present)

COUNCIL ON COMPETITIVENESS, Washington, DC
Member (2005 – 2008; 2011 – 2013)

COUNCIL ON FOREIGN RELATIONS, New York, NY
Higher Education Working Group on Global Affairs (Member, 2007 – Present)

FORUM ON THE FUTURE OF HIGHER EDUCATION, Aspen, CO (Member, 2003 – Present)

FRANKLIN W. OLIN COLLEGE OF ENGINEERING, Needham, MA
Board of Trustees (Member, 1999 – Present)

HARVARD UNIVERSITY, Cambridge, MA
Visiting Committee for the School of Engineering and Applied Sciences
(Member, 2007; 2012; 2014 – 2015)

INDIAN INSTITUTE OF TECHNOLOGY, Gandhinagar, India
Leadership Conclave, Academic Advisory Council (Member, 2011 - Present)

KHALIFA UNIVERSITY OF SCIENCE, TECHNOLOGY & RESEARCH (KUSTAR), Abu Dhabi, UAE
Presidential Academic Advisory Committee (Member 2011 – 2015)

NATIONAL ACADEMY OF ENGINEERING, Washington, DC (Member, 2012)
- Bernard M. Gordon Prize for Innovation in Engineering and Technology Education Selection Committee (Member, 2016 – 2018)
- Committee on Engineering Education Workforce Continuum (Member, 2014 – 2017)
- Grand Challenge Scholars Program, Executive Committee (Member, 2010 – Present)
- Grand Challenges International Summit Steering Committee (Member, 2011 – Present; Chair 2016 - 2017)
- Changing the Conversation Working Group (Member, 2010)
- Frontiers of Engineering Education, Steering Committee (Member, 2009)
- Lifelong Learning Imperative Working Group (Member, 2009)

NATIONAL ACADEMIES OF SCIENCES, ENGINEERING AND MEDICINE, Washington, DC
- Planning Committee on Revisiting Research Universities Convocation, (Member, 2017)
- Board on Higher Education and Workforce, (Member 2016 – Present; Chair, 2016 – 2018)

NATIONAL SCIENCE FOUNDATION, Washington, DC
Engineering Advisory Committee (Member, 2002 – 2008; Chair, 2006 – 2007)

STANFORD UNIVERSITY, Stanford, CA
Stanford Engineering Advisory Council (Member 2013 – 2015)
The National Center for Engineering Pathways to Innovation (Epicenter) Advisory Board
(Member, 2014 – 2016)

STANLEY CONSULTANTS, INC., Muscatine, IA
Board of Directors (2001 – 2012)

SUZUKI ASSOCIATION OF THE AMERICAS, Boulder, CO
Honorary Board (Member, 2008 – 2013)

THE LEMELSON FOUNDATION, Portland, OR
Advisory Committee (Member 2016 – Present)

UNITED STATES MILITARY ACADEMY, West Point, NY
External Academic Program Goals Review Panel, (Vice President, 2012)

UNIVERSITY OF CALIFORNIA, DAVIS
Advisory Board, Department of Mechanical and Aeronautical Engineering
(Member, 2000 – 2006)
Advisory Board, Department of Civil and Environmental Engineering
(Member, 1995 – 1998)

UNIVERSITY OF IOWA, Iowa City, IA
Advisory Board, IIHR Hydroscience and Engineering (Member, 2000 – 2005)

AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS, MEMBER
AMERICAN SOCIETY OF CIVIL ENGINEERS, ELECTED LIFE MEMBER, 2015
AMERICAN SOCIETY FOR ENGINEERING EDUCATION, MEMBER
AMERICAN SOCIETY OF MECHANICAL ENGINEERS, MEMBER

HONORS

Member of Sigma Xi, Tau Beta Pi, Phi Kappa Phi Honor Societies
Recipient of Earl C. Anthony Fellowship, ARCS Foundation Fellowship, and NSF Traineeships

Listed in American Men and Women of Science
Listed in Who's Who in Frontier Science and Technology
Listed in Who's Who in Science and Engineering
Listed in Who's Who in America
Listed in Who's Who in the World

AWARDS

- Elected Fellow of the American Academy of Arts & Sciences, 2017.
- Recipient of the 2017 Brock International Prize in Education, 2017.
- Elected Fellow of the National Academy of Inventors, 2014.
- Recipient of the 2014 Distinguished Alumni Award, California Institute of Technology, presented at the 77th Annual Seminar Day, Pasadena, CA, May 17, 2014.
- Recipient of the National Academy of Engineering's Bernard M. Gordon Prize for Innovation in Engineering and Technology Education, 2013.

- Elected Fellow of the Engineering Mechanics Institute of the American Society of Civil Engineers, 2013.
- Elected Member of the National Academy of Engineering, 2012.
- The 2011 ASEE Donald E. Marlowe Award, presented at The American Society for Engineering Education Annual Conference, Vancouver, British Columbia, June 29, 2011.
- “Richard K. Miller Scholarships” and “Richard K. Miller Summer Fellowships” (about a dozen in total) at Olin College, Needham, MA, established by action of the Board of Trustees in May 2009 through generous donations “*in recognition of ten years of outstanding leadership of Olin College.*” (The scholarships provide need-based financial aid for deserving first-year students, and the summer fellowships provide summer support for pairs of continuing students and their faculty mentors.)
- 2006 All-Star Award, *Mass High Tech, The Journal of New England High Technology*, for leading the establishment of Olin College, presented October 25, 2006, Boston, MA.
- “Legacy of Iowa Engineering” award, University of Iowa, College of Engineering, Iowa City, IA, for making “*exceptional historical contributions toward advancing the College in teaching, research, or service*” while associated with the College, presented June 10, 2006 (11th person—and the second living person—to receive this award).
- The 2002 Distinguished Engineering Alumnus Award, College of Engineering, University of California, Davis, presented at Commencement Ceremonies on June 14, 2002 (12th person to receive this award in the history of the College of Engineering).
- The 2002 Citation for Excellence, Cal Aggie Alumni Association, University of California, Davis, presented at a reception at the College of Engineering on June 14, 2002, and acknowledged at a university-wide dinner on October 19, 2002, on Homecoming Weekend.
- “Richard K. Miller Engineering Entrepreneurial Studies Scholarship,” established January 29, 1999, by the President of the University of Iowa, through generous endowment support provided by the Engineering Development Council in recognition of “*extraordinary contribution to the College of Engineering.*” This perpetual scholarship fund supports tuition for deserving undergraduate engineering students each year.
- Tau Beta Pi Certificate of Recognition “*for outstanding service and dedication to the University of Iowa, College of Engineering,*” April 21, 1994.
- TRW Excellence in Teaching Award, USC School of Engineering, presented in May, 1987, at the annual faculty meeting of the School of Engineering, University of Southern California, Los Angeles (the award provided a \$4,000 prize from the TRW Corporation).
- David M. Wilson Associates "Outstanding Undergraduate Teaching Award in Civil Engineering," presented in May 1983, by the Graduating Class of Civil Engineers at the University of Southern California, Los Angeles.
- David M. Wilson Associates "Outstanding Civil Engineering Faculty Member" award, presented in May, 1981, by the Graduating Class of Civil Engineers at the University of Southern California, Los Angeles.
- Pi Tau Sigma (precursor to Tau Beta Pi) "Most Appreciated Faculty Member" award, presented at Commencement ceremonies in June, 1980, by the Graduating Class of Mechanical Engineers at the University of California, Santa Barbara.
- "Outstanding Instructor" award, presented in May, 1978, by the student chapter of ASME at the University of California, Santa Barbara.

SELECTED RECENT KEYNOTE AND INVITED PRESENTATIONS

- *“Reimagining Engineering Education, Design Thinking and Intrinsic Motivation Perspectives,”* R.K. Miller, (Invited Address), Learning Incubator, John A. Paulson School of Engineering and Applied Sciences, Harvard University, October 31, 2019.
- *“Reimagining General Education, Design Thinking and Intrinsic Motivation Perspectives,”* R.K. Miller, (Keynote Address), 3rd Annual UConn Advising Conference, *Preparing Our Students for the Future*, University of Connecticut, August 15, 2019.
- *“Engineering a Better World for All Humanity,”* R.K. Miller, (Keynote Address), Grand Challenges Scholars Program Workshop, Belo Horizonte, Brazil, August 6, 2019.
- *“Educating Engineers Who Will Create a Better World in the Digital Era,”* R.K. Miller, (Invited Keynote Address), Business and Academic Leaders Special Meeting, Takeda & Associates, Tokyo, Japan, June 11, 2019.
- *“Educating Engineers Who Will Create a Better World in the Digital Era,”* R.K. Miller, (Keynote Speech), Human Development for Social Innovation in Digital Era, Japan-U.S. Digital Innovation Hub Workshop, University of Tsukuba, Japan, June 10, 2019.
- *“Why Is the Public Trust in Higher Education So Alarmingly Low and What Might Be Done About It?,”* R.K. Miller, (Invited Presentation), Harvard Summit on Higher Education and the Public Good, Harvard University, Cambridge, MA, April 5, 2019.
- *“Reimagine Higher Education,”* R.K. Miller, (Keynote Address), Towards a New Innovation Culture, Ministry of Higher Education and Science, Kolding, Denmark, April 4, 2019.
- *“The Future of Higher Education,”* R.K. Miller, (Invited Address), High Performance in Higher Education, Harvard University, March 28, 2019.
- *“The Future of Higher Education,”* R.K. Miller, (Plenary Panel), KEEN National Conference, Dallas, TX, January 3, 2019.
- *“Remaking Engineering Education for the Innovation Economy,”* R.K. Miller, (Public Lecture), Southern University of Science and Technology, Shenzhen, China, December 14, 2018.
- *“Remaking Engineering Education for the Innovation Economy,”* R.K. Miller, (Public Lecture), Institute for Advanced Study, The Hong Kong University of Science and Technology, Hong Kong, December 12, 2018.
- *“From the Ground Up: Remaking Engineering Education,”* R.K. Miller, (Dean’s Distinguished Lecture), College of Engineering, University of Washington, Seattle, WA, November 28, 2018.
- *“Why Higher Education Must Change,”* R.K. Miller, (Plenary Address), Higher Education Summit of the Americas, Universidad Jorge Tadeo Lozano, Cartagena, Colombia, November 16-17, 2018.
- *“Implications of the Relentless Expansion of the Power of Technology,”* R.K. Miller, (Plenary Panel: Technology, Society and Engineering Education, 2018 IEEE International Symposium on Technology and Society, The George Washington University, Washington, DC, November 14, 2018.
- *“From the Ground Up: A Systems Approach to Rethinking Engineering Education,”* R.K. Miller, (Keynote Address), Royal Academy of Engineering, London, UK, September 24, 2018.
- *“Reimagining Undergraduate Education: Lessons Learned at Olin College of Engineering,”* R.K. Miller, (Keynote Address), College of Health Solutions, Arizona State University, Phoenix, AZ, August 30, 2018.

- *“The Complexity of Educational Ecosystems,”* R.K. Miller (Invited Participant), Santa Fe Institute, Santa Fe, NM, June 4-5, 2018.
- *“Reimagining Engineering Education: Design Thinking and Intrinsic Motivation Perspectives,”* R.K. Miller, (External Keynote), Strategic Planning Retreat, Webb Institute, Glenn Cove, NY, April 21, 2018.
- *“Reimagining General Education: Design Thinking and Intrinsic Motivation Perspectives,”* R.K. Miller, (Opening Keynote), General Education and Assessment: Foundations for Democracy, Association of American Colleges & Universities, Philadelphia, PA, February 15, 2018.
- *“Rethinking Undergraduate Education: The View from Olin College,”* R.K. Miller, (Guest Speaker), Harvard Higher Education Leaders Forum, Harvard University, Cambridge, MA, January 26, 2018.
- *“The Future of Engineering Education: The View from Olin College,”* R.K. Miller, (Invited Address), Strategy 2030 Guest Speaker Series, TU/e, Eindhoven, Netherlands, November 8, 2017.
- *“Kern Institute’s National Medical Transformation Network,”* R.K. Miller, (Invited Speaker), Boston, MA November 6, 2017.
- *“Autodesk Ideas Driving Change Summit,”* R.K. Miller, (Invited Panelist), San Francisco, CA, October 31-November 2, 2017.
- *“Creating and Educating a Growth Mindset,”* R.K. Miller, (Keynote Address), STEM Higher Education Council National Leaders Summit, STEMconnector, Washington, DC, September 28, 2017.
- *“Shaping the Future of Undergraduate Education: Lessons Learned from Experimentation at Olin College of Engineering,”* R.K. Miller, (Distinguished Speaker), 2017 ITAM Faculty Seminar, The Instituto Tecnológico Autónomo de México, Mexico City, MEXICO, August 10, 2017.
- *“Rethinking Engineering Education for the 21st Century,”* R.K. Miller, (Keynote Address), New Approaches to Engineering Higher Education, Institution of Engineering and Technology, London, UK, May 22, 2017.
- *“Building an Institution from Scratch: The Story of Olin College of Engineering,”* R.K. Miller, (Invited Remarks), Cohort 4, Module 3, Designing and Financing Innovation, Arizona State University, Tempe, AZ, April 24, 2017.
- *“Driving Curriculum Change: Olin College Case Study,”* R.K. Miller, (Invited Remarks), 2017 ABET Symposium, Baltimore Marriott Waterfront, Baltimore, MD, April 20-21, 2017.
- *“The State of Engineering Education: Lessons Learned from Experimentation at Olin College of Engineering,”* R.K. Miller, (Opening Remarks), NSF Workshop, Catalyzing a Research Agenda..., Olin College of Engineering, Needham, MA, March 30, 2017.
- *“Shaping the Future of Undergraduate Education: Lessons Learned from Experimentation at Olin College of Engineering,”* R.K. Miller, (Keynote Address), 2017 Brock Prize Symposium, University of Oklahoma, Norman, Oklahoma, March 8, 2017.
- *“Shaping the Future of Undergraduate Education: Lessons Learned from Experimentation at Olin College of Engineering,”* R.K. Miller, (Kurtz Lecture), College of Engineering, The University of Iowa, Iowa City, IA, November 10, 2016.

- “*The Role of GCSP in Shaping the Mindset of Engineering Graduates*,” R.K. Miller, (Panel on Extensions of GCSP), NAE GCSP Annual Meeting, National Academy of Engineering, Washington, DC, October 7, 2016.
- “*Shaping the Future of Undergraduate Education: Lessons Learned from Experimentation at Olin College of Engineering*,” R.K. Miller, (Mechanical Engineering Seminar), College of Engineering, University of California, Santa Barbara, CA, September 19, 2016.
- “*Learning in Context: Transcending Disciplinary Boundaries*,” R.K. Miller, (Panel Discussion), Integration of Education in STEM with the Arts and Humanities, National Academy of Sciences, Washington, DC, July 28, 2016.
- “*Shaping the Future of Undergraduate Education: Lessons Learned from Experimentation at Olin College of Engineering*,” R.K. Miller (Engineering Distinguished Lecture), U.S. National Science Foundation, Arlington, VA, July 12, 2016.
- “*The Future of Engineering Education*,” R.K. Miller, (Invited Lecture), Entrepreneurial Thought Leaders, Stanford University, May 25, 2016.
- “*The Future of Engineering Education*,” R.K. Miller, (GSV Primetime Talk), ASU GSV Summit, San Diego, CA, April 20, 2016.
- “*The Future of Engineering Education*,” R.K. Miller, (Symposium on Exploring a New Vision for Center-Based, Multidisciplinary Engineering Research), National Academies Keck Center, Washington, DC, April 6, 2016.
- “*The Future of Engineering Education*,” R.K. Miller, (Invited Lecture), Bucknell University, Faculty Learning Series, College of Engineering, Lewisburg, PA, March 25, 2016.
- *National Town Hall, T-Summit 2016: Transformational Approaches to Creating T-Shaped Professionals*, (Invited Panelist), National Academy of Sciences, Washington, DC, March 22, 2016.
- “*The Future of Engineering Education*,” R.K. Miller, (Invited Lecture), Ahmedabad University, Ahmedabad, Gujarat, India, February 24, 2016.
- “*The Future of Engineering Education*,” R.K. Miller, (Keynote Presentation), Autodesk University, Education Summit 2015: The Future of Making Things in Education, Las Vegas, NV, November 30, 2015.
- “*Educating Engineers for the Challenges of the 21st Century*,” R.K. Miller, (Moderator and Invited Panelist), Global Grand Challenges Summit, Beijing, China, September 16, 2015.
- “*Innovations in Engineering Education*,” R.K. Miller, (Invited Panelist), IIT Global Leadership Conference 2015, Santa Clara, CA, July 24, 2015.
- “*A New Type of Engineering Education*,” R.K. Miller, (Invited Speaker), The Napa Summit, The Xconomy Retreat on Technology, Jobs and Growth, Napa Valley, CA, June 2, 2015.
- “*The Future of Engineering Education*,” R.K. Miller, (Keynote Presentation), The Global STEM Education Center, 2015 Annual Conference, Harvard University, Cambridge, MA, May 29, 2015.
- “*Educating Engineering Innovators For the 21st Century*,” R.K. Miller, (Keynote and Panel/Talk Show), 6^o Congresso Brasileiro de Inovação da Indústria, Sao Paulo, Brazil, May 14, 2015.
- “*CONNECTING THE DOTS: How and Why engineering education must change*,” R.K. Miller, (Connections Keynote Presentation), 2015 KEEN Winter Conference, Tempe, AZ, January 6, 2015.

- *“The Role of Soft Skills in Preparing Innovators,”* R.K. Miller, (Invited Panel Presentation), NAE – INAE GCSP Workshop, National Academy of Sciences, Washington, DC, December 18, 2014.
- *“Olin College of Engineering: Rethinking Engineering Education,”* R.K. Miller, (Invited Presentation), 2014 World Engineering Education Forum, Dubai, December 5, 2014.
- *“Engineering and Innovation,”* R.K. Miller, (Panelist), Engineering Forum, Instituto Tecnológico de Aeronáutica (ITA), São José dos Campos (SP), Brazil, November 17, 2014.
- *“Transforming Engineering Education at the Collegiate Level,”* R.K. Miller, (Invited Presentation), 3DS AND ACADEMIA: where learning meets innovation, 3DEXPERIENCE FORUM, DASSAULT SYSTEMES, Las Vegas, NV, November 12, 2014.
- *“The Importance of Industry-University Cooperation in the Education of Innovators,”* R.K. Miller, (Keynote Address), 2014 Global Industry-University Cooperation Forum, Seoul, South Korea, October 15, 2014.
- *“From the Ground Up: Rethinking Engineering Education,”* R.K. Miller, (Invited Lecture), College of Engineering, University of Michigan, Ann Arbor, MI, October 10, 2014.
- *“Encouraging Innovation from Universities,”* R.K. Miller, (Invited Lecture), Science Plaza, Science and Technology Agency, Tokyo, Japan, July 9, 2014.
- *“Developing an Innovation-Driven Workforce,”* R.K. Miller, (Invited Panelist), New York Times, Next New World Forum, San Francisco, CA, June 12, 2014.
- *“Creating Innovators,”* R.K. Miller, (Invited Panelist), International Exhibition and Conference in Higher Education, Riyadh, Saudi Arabia, April 16, 2014.
- *“Academic Freedom, Shared Governance, and Leadership in Innovative Universities,”* (Invited Presentation), Rectors’ Workshop, International Exhibition and Conference in Higher Education, Riyadh, Saudi Arabia, April 14, 2014.
- *“From the Ground Up: Rethinking Engineering Education,”* R.K. Miller, (Invited Lecture), College of Engineering, Ohio State University, Columbus, OH, April 2, 2014.
- *“Why T-shaped Thinking is Essential,”* R.K. Miller, (Invited Panelist), T-Summit 2014, Cultivating Tomorrow’s Talent Today, IBM Research—Almaden, San Jose, CA, March 25, 2014.
- *“From the Ground Up: Rethinking Engineering Education,”* R.K. Miller, (Invited Lecture), University of Warwick, Coventry, England, March 13, 2014.
- *“From the Ground Up: Rethinking Engineering Education,”* R.K. Miller, (Invited Lecture), College of Engineering, University of California, Berkeley, CA, March 4, 2014.
- *“The Olin College Experiment: Re-Designing Engineering Education,”* R.K. Miller, (Invited Presentation), Ahmedabad University, Ahmedabad, India, December 18, 2013.
- *“The Olin College Experiment: Re-Designing Engineering Education,”* R.K. Miller, (Closing Keynote Presentation), 2013 LifeScience Alley Conference, Minneapolis, MN, November 20, 2013.
- *“From the Ground Up: Rethinking Engineering Education,”* R.K. Miller, (Bernard M. Gordon Prize Lecture), 2013 National Academy of Engineering Annual Meeting, Washington, DC, October 6, 2013.
- *“Innovating Engineering Education: Challenges and Opportunities,”* R.K. Miller, (Keynote Presentation), Insper, Sao Paulo, Brazil, July 30, 2013.

- *“Academic Freedom, Shared Governance, and Leadership in Innovative Universities,”* R.K. Miller, (Keynote Presentation), Eurasian Higher Education Leaders Forum, Nazarbayev University, Astana, Kazakhstan, June 12, 2013.
- *“Technology Leadership and Competitiveness Panel,”* (Invited Panelist), Industrial Research Institute, Diamond Jubilee Meeting, Washington, DC, May 22, 2013.
- *“Creating Innovators for the Grand Challenges of the 21st Century,”* R.K. Miller, (Keynote Address), Spirit of Innovation Challenge, The Innovation Summit, NASA Johnson Space Center, Houston, TX, April 12, 2013.
- *“Student Engagement, Project-Based Learning, and Engineering Education in the 21st Century: Lessons from Olin College,”* R.K. Miller, (Keynote Address), Wentworth Institute of Technology, Winter Faculty Colloquium, Boston, MA, January 7, 2013.
- *“What Will It Take to Create Real Innovators for 21st Century?,”* R.K. Miller, (Keynote Address), Global Semiconductor Alliance, Emerging Company CEO Council, Palo Alto, CA, December 12, 2012.
- *“Educational Impacts of the Grand Challenges,”* R.K. Miller, (Invited Presentation) American Association of Engineering Societies Board of Directors Meeting, Reston, VA, November 29, 2012.
- *“Thinking Ahead: Preparing Engineering Leaders for the Next 50 Years,”* R.K. Miller (Closing Keynote Address) University of California, Davis, College of Engineering 50th Anniversary Celebration, Davis, CA, November 8, 2012.
- *“Incorporating Human-Systems Integration in Undergraduate Engineering Education Curriculum Panel,”* R.K. Miller (Invited Panelist), National Academy of Engineering and the Board on Human-Systems Integration of the National Research Council, Washington, DC, November 5, 2012.
- *“Olin College: A Comprehensive Redesign of Undergraduate Engineering Education,”* R.K. Miller, (Invited Plenary Address) III International Conference of the Russian Association of Higher Education Researchers, National Research University—Higher School of Economics, Moscow, Russia, October 20, 2012.
- *“Rethinking Engineering Education From the Ground Up,”* R.K. Miller (Keynote Address), Implementing Project-Based Learning in Engineering Education, Skolkovo Institute of Science and Technology, Moscow, Russia, October 18, 2012.
- *“Educating Engineers: Preparing 21st Century Leaders in the Context of New Modes of Learning.”* (Invited Panelist), National Academy of Engineering Annual Forum, Washington, DC, October 1, 2012.
- *“The Educational Imperative of the 21st Century,”* R.K. Miller, (Keynote Address), SISTEMA Tecnológico De Monterrey, Monterrey, Mexico, June 26, 2012.
- *“Fostering Innovation Through Higher Education: Academic Perspective Panel,”* R.K. Miller, (Invited Speaker), 5th Global University Summit, Chicago, IL, April 30, 2012.
- *“Olin College: A Comprehensive Redesign of Undergraduate Engineering Education,”* R.K. Miller (Plenary Address), Changing Paradigm in Teaching and Learning, World Class Teaching Universities, 3rd International Exhibition and Conference on Higher Education. Riyadh, Saudi Arabia, April 17-22, 2012.
- *“The Road to 21st Century Skills: How to Make Engineering Education more Relevant,”* R.K. Miller (Keynote Address), Regional Conference on Engineering and Applied Sciences in Central America: How to Develop the Next Generation of Innovators, World Bank and Ministry of Science & Technology, Costa Rica, February 22, 2012.

- *“Experiments in Pedagogy At Olin College,”* R.K. Miller (Invited Address), Academic Advisory Council Meeting, Indian Institute of Technology, Gandhinagar, India, December 1, 2011.
- *“From the Ground Up: A Comprehensive Systems Approach to the Redesign of Engineering Education,”* R.K. Miller (Invited Lecture), Indian Institute of Technology, Gandhinagar, India, November 30, 2011.
- *“From the Ground Up: A Comprehensive Systems Approach to the Redesign of Engineering Education,”* R.K. Miller (Invited Presentation), Brunel Lecture, Engineering Systems Division, Massachusetts Institute of Technology, Cambridge, MA, November 1, 2011.
- *“Learning Models for Engineering the 21st Century,”* R.K. Miller (Invited Presentation), Education Panel No. 1, President’s Academic Advisory Council, Khalifa University of Science, Technology and Research, Abu Dhabi, UAE, September 10, 2011.
- *“Educating Engineers for the Grand Challenges of the 21st Century,”* R.K. Miller (Keynote Address), The Future Engineer: Innovation in Engineering Education, Centennial Celebration of the School of Engineering-UFMG, Universidade Federal de Minas Gerais, Belo Horizonte-MG, Brazil, August 25, 2011.
- *“From the Ground Up: Redesigning Engineering Education for the 21st Century,”* by R.K. Miller (Keynote Address), First International Conference of Technological Universities, Universidad Tecnológica de Bolivar, Cartagena, Colombia, August 22, 2011.
- *“Global Grand Challenges: Educational Imperatives,”* R.K. Miller (Keynote Address), Global Technology and Engineering Consortium (GTEC), Olin College, Needham, MA, May 12, 2011.
- *“From the Ground Up: Reinventing Engineering Education,”* R.K. Miller (Invited presentation), Future Ed 3 Conference, New York Law School, New York City, NY, April 16, 2011.
- *“Convergence Thinking: Opportunities and Challenges,”* R.K. Miller (Keynote Address), Inauguration Ceremony of the Institute for Convergence Technology Initiatives, Yonsei University, Songdo City, Incheon, Korea, March 23, 2011.
- *“The Educational Implications of the Grand Challenges of Engineering,”* R.K. Miller (Invited Presentation), The Grand Challenges for Engineering, The John and Muriel Landis Lecture, Lafayette College, Easton, PA, March 3, 2011.
- *“Engineering, Liberal Arts, and the Educational Challenges of the Grand Challenges,”* R.K. Miller (Invited Presentation), Wellesley Women: Navigating a Complex World, Business Leadership Council Annual Meeting, Wellesley College, Wellesley, MA, November 13, 2010.
- *“From the Ground Up: Reinventing Engineering Education for the 21st Century,”* R.K. Miller and I. Adesida (Invited Presentation), Tradition, Innovation, and Creativity: Undergraduate Learning for the 21st Century, The Reinvention Center, Crystal City, VA, November 12, 2010.
- *“From the Ground Up: Rethinking Engineering Education for the 21st Century,”* R.K. Miller (Invited Presentation), Nanyang Technological University, Singapore, October 20, 2010.
- *“The Educational Imperatives of the Engineering Grand Challenges,”* R.K. Miller (Keynote Address), ASEE Global Colloquium on Engineering Education, Singapore, October 19, 2010.
- *“Advantages of Innovative Approaches to Curriculum Development,”* R.K. Miller (Invited Presentation), Educating Engineering Leaders Conference, Imperial College London, London, UK, September 9, 2010.
- *“From the Ground Up: Rethinking Engineering Education for the 21st Century,”* R.K. Miller (Keynote Address), 2010 Symposium on Engineering and Liberal Education, Union College, Schenectady, NY, June 4, 2010.

- “*Starting Over in Engineering Education: The Creation of Olin College*,” R.K. Miller (Invited Presentation), Reinventing the American University, American Enterprise Institute, Washington, DC, June 3, 2010.
- “*How Does Engineering Differ from Science?*,” R.K. Miller, (Keynote Presentation), Chicago Symposium, Excellence in Teaching Mathematics and Science: Research and Practice, Northwestern University, Evanston, IL, March 26, 2010.
- “*Innovative Educational and Pedagogical Approaches*,” R.K. Miller, (Invited Presentation), Transforming Tertiary Education for Innovation and Competitiveness, World Bank, Washington, DC, March 25, 2010.
- “*What Does Every Engineer Need to Know in the 21st Century?*,” R.K. Miller, Dean’s Distinguished Lecture, College of Engineering, University of California, Davis, January 28, 2010.
- “*Building an Educational Experience for Gen Y Engineers*,” R.K. Miller, (Education Keynote Address), Autodesk University, Las Vegas, NV, December 1, 2009.
- “*Olin College: Reflections on Ten Years of Experimentation in Engineering Education*,” R.K. Miller, MacVicar Lecture on Education, Massachusetts Institute of Technology, Cambridge, MA, November 20, 2009.
- “*Enhancing Student Engagement Through Creative Design, Entrepreneurial Thinking, and Project-Based Learning*,” R.K. Miller, (Invited Presentation), Global Human Resources Forum 2009—Creative Education for All, Seoul, Korea, November 4, 2009.
- “*What Does Every Engineer Need to Know—Now?*,” R.K. Miller, (Keynote Presentation), Annual Eberhardt Rechtin Lecture, Daniel J. Epstein Department of Industrial and Systems Engineering, Viterbi School of Engineering, University of Southern California, Los Angeles, CA, September 24, 2009.
- “*Creating an Innovative Engineering College from Scratch: Lessons Learned*,” R.K. Miller, (Invited Presentation), 2009 World Conference on Higher Education, Panel on World Class Universities and Innovative Tertiary Education Institutions, UNESCO, Paris, France, July 7, 2009.
- “*How Can We Best Prepare the Next Generation of Engineering Innovators?*,” R.K. Miller, (Keynote Address), 2009 Joint ASCE-ASME-SES Conference on Mechanics and Materials, Virginia Tech, Blacksburg, VA, June 26, 2009.
- “*From Concept to Reality: Designing an Independent College Devoted Solely to Engineering—Reflections on the First Ten Years*,” R.K. Miller, (Invited Presentation), Engineering Education in the 21st Century (pre-conference workshop), 2009 NSF CMMI Engineering Research and Innovation Conference, Honolulu, HI, June 22, 2009.
- “*The National Academy of Engineering Grand Challenges and the Role of Civil Engineering*,” R.K. Miller, (Invited Presentation), 2009 ASCE Annual Civil Engineering Department Heads Conference, Portland, OR, May 26-28, 2009.
- “*Creating an Innovative Engineering College from Scratch: Lessons Learned*,” R.K. Miller, (Invited Presentation), Knowledge Economy Forum VIII—Reforming Innovation Systems: Moving Beyond Lectures and Labs, INSEAD, Fontainebleau, France, April 28-May 1, 2009.
- “*From Concept to Reality: Some Challenges in Establishing Olin College*,” R.K. Miller, (Invited Presentation), Kazakhstan-World Bank Joint Economic Research Program (JERP), Workshop on Strategy for the New University of Astana, Ministry of Education and Science, Astana, Republic of Kazakhstan, December 16, 2008.

- “*Educating Engineering Leaders for the 21st Century*,” R.K. Miller, (Keynote Address), Annual H.T. Person Memorial Lecture, College of Engineering and Applied Science, University of Wyoming, Laramie, WY, October 10, 2008.
- “*On Becoming a Leader: Lessons from an Academic Start-Up*,” R.K. Miller, (Invited Presentation), Graduate Seminar, Department of Mechanical and Industrial Engineering, University of Iowa, Iowa City, IA, September 25, 2008.
- “*BEYOND RESEARCH: Are Our Universities Doing the Best Job of Producing Real Engineering Innovators?*,” R.K. Miller, (Invited Plenary Presentation), Ahmed M. Abdel-Ghaffar Memorial Symposium, Advances in Structural Dynamics and Earthquake Engineering, University of Southern California, Los Angeles, CA, September 19, 2008.
- “*The New Liberal Education*,” R.K. Miller, (Invited Plenary Address), 2008 Baker Forum: What Does it Mean to be a Polytechnic University in the 21st Century?, California Polytechnic State University, San Luis Obispo, CA, May 5, 2008.
- “*Reinventing Engineering Education*,” R.K. Miller, (Invited Plenary Presentation), 2008 Global Management of Technology Forum, Seoul, Korea, January 30, 2008.

EDUCATIONAL CONSULTING

BABSON COLLEGE, Wellesley, MA

- Presidential Search Committee, Member (2001 – 2002)

KAUFFMAN CENTER FOR ENTREPRENEURIAL LEADERSHIP, Kansas City, MO

- Futures 21 Brain Trust, Member (2001)

NATIONAL FOUNDATION FOR TEACHING ENTREPRENEURSHIP, New York, NY

- Board of Overseers, Member (2011 – 2015)
- Curriculum and Educational Policy Working Group, Member (2001 – 2011)

NEW ENGLAND ASSOCIATION OF SCHOOLS AND COLLEGES

- Chair, Visiting Committee, General Accreditation Review, Hampshire College, Amherst, MA (2017 – 2018)
- Chair, Visiting Committee, General Accreditation Review, Berklee College of Music, Boston, MA (2013)
- Vice-Chair, Visiting Committee, General Accreditation Review, New England Conservatory (of Music), Boston, MA (2009)
- Chair, Visiting Committee, General Accreditation Review, U.S. Coast Guard Academy, New London, CT (2009 – 2010)

STATE OF LOUISIANA, BOARD OF REGENTS, Baton Rouge, LA

- Chair, External Review Committee, proposed Ph.D. in Engineering, and proposed M.S. in Engineering Management, Louisiana Tech University, Ruston, LA, (1998)

UNIVERSITY OF ILLINOIS, Springfield, IL

- “Fund Raising Concepts for Deans,” Workshop for all Vice Presidents and Deans, (organizer and presenter) (1999)

UNIVERSITY OF SOUTHERN CALIFORNIA, Los Angeles, CA

- Chair, External Review Committee, Aerospace Engineering Department, (1995)

WESTERN ASSOCIATION OF SCHOOLS AND COLLEGES

- Chair, Visiting Committee, General Accreditation Review, Harvey Mudd College, Claremont, CA, (1999)

WORLD BANK, Tertiary Education Division, Washington, DC

- Short-term Consultant, and guest speaker on establishment of “world class universities” (including the Joint Educational Research Project with the Republic of Kazakhstan to establish the New University (now Nazarbayev University) of Astana) (2008)

ADMINISTRATIVE SERVICE

FRANKLIN W. OLIN COLLEGE OF ENGINEERING

- Chief Executive Officer of Olin College (1999 – Present)
- Search Committees for Provost, Vice President for Innovation and Research, Vice President for Administration and Finance, and Vice President for External Relations and Enrollment (Chair, 1999)
- Leadership Team and Strategic Planning Committee (Chair, 1999 – Present)
- Campus Master Planning and Facilities Development Team (co-Chair, 1999 – 2002)
- “Invention 2000” team for discovery, invention, development, and test of all aspects of Academic Program, Student Life, Policies and Procedures, Finance and Administration, External Relations, Admissions and Development, and College Governance (Chair, 2000 – 2002)
- Search Committee for Vice President for Development, (Chair, 2002 – 2003 and 2007 – 2008)
- President’s Cabinet (Chair, 2005 – Present)

UNIVERSITY OF IOWA

University-wide Service

- Search Committee, Executive Director, University of Iowa Alumni Association (1994 – 1995)
- Search Committee, Provost (1996)
- Search Committee, President, University of Iowa Foundation (1997 – 1998)
- Interdisciplinary Strategic Planning Committee (1998 – 1999)
- Search Committee, Dean, College of Education (1998 – 1999)

College of Engineering Service

- Dean of the College of Engineering (1992 – 1999)

UNIVERSITY OF SOUTHERN CALIFORNIA

University-wide Service

- Faculty Senate (1985 – 1989)
- Steering Committee, President’s Commission on Undergraduate Education (CUE) (1988 – 1990)
- CUE Sub commission on General Education (1988 – 1990)
- Task Force on English Language Training for Science and Engineering Graduate Students, Co-Chair (1990 – 1991)
- Advisory Board, Center for Excellence in Teaching, (1990 – 1992)
- General Education Committee, (1990 – 1992)
- Non-Resident Faculty Fellow, Troy Hall (1990 – 1992)
- Undergraduate Residential College Steering Committee (1992)
- University Honors College Steering Committee (1992)

School of Engineering Service

- Associate Dean for Academic Affairs (1989 – 1992)
- Undergraduate Education Committee; Chair (1988 – 1990)
- Curriculum Committee (1979 – 1989); Chair (1986 – 1989)
- Powell Fellowship Committee (1986 – 1988); Chair (1987 – 1988)
- Powell Research Grant Committee (1987 – 1988)
- TRW Teaching Award Committee (1987 – 1988)
- Appointments, Promotions, and Tenure Committee (1987 – 1989)
- Academic Planning and Budget Advisory Committee (1985 – 1987); Co-Chair (1989 – 1992)
- Search Committee for Dean of the School (1983 – 1984)

Department of Civil Engineering

- Administrative Officer (1982 – 1984)
- Search Committee for Chairman of the Department (1983 – 1984)
- Search Committee for New Faculty; Chair (1985 – 1986)
- Program Advisor for Applied Mechanics (1982 – 1992)
- Curriculum Committee (1979 – 1992); Chair (1983 – 1988)
- Office and Laboratory Space Allocation Committee (1986 – 1988)
- Salary Review Board (1981 – 1982; 1988 – 1989); Chair (1988 – 1989)
- Faculty Academic Development and Promotion Review Committee; Chair (1988 – 1989)
- Student Affairs Committee (1980 – 1981)
- Ph.D. Screening Exam Committee; Chair (1981 – 1982)
- Teaching Assistant Committee (1988 – 1992)

Department of Aerospace Engineering

- Aerospace Structures Program Committee; Chair (1985 – 1992)

UNIVERSITY OF CALIFORNIA, SANTA BARBARAUniversity-wide Service

- Campus Seismic Review Committee (1976 – 1979)
- Graduate Council of the Academic Senate (1978 – 1979)

College of Engineering Service

- Executive Committee (1976 – 1978)

Department of Mechanical and Environmental Engineering

- Graduate Advisor (1977 – 1978)
- Curriculum Committee (1976 – 1977)
- Liaison Committee on Computers (1975 – 1977)
- Committee on Laboratory Equipment (1975 – 1976)

BOOK CHAPTERS

"Response of Hysteretic Oscillators Under Non-Stationary Random Excitation," R.K. Miller, S.F. Masri, H. Sassi, and T.K. Caughey, pp. 241-265 in *Studies in Applied Mechanics 14: Random Vibration - Status and Recent Developments, the Stephen Harry Crandall Festschrift*, edited by I. Elishakoff and R.H. Lyon, Elsevier, New York (1986).

Forward, R.K. Miller, in *Holistic Engineering Education: Beyond Technology*, 1st edition, by Domenico Grasso and Melody Brown Burkins, Eds., Springer, (2010).

"Olin College and the Future of Engineering," R.K. Miller, in *Writing and Reading Across the Curriculum*, 11th Edition, by Laurence Behrens and Leonard Rosen, Pearson Longman, New York, pp. 262-268, (2011).

"Some Challenges of Creating an Entirely New Academic Institution," R.K. Miller, Chapter 7, *Organizational Learning Contracts*, by Paul Goodman, Oxford University Press, New York, pp. 121-138, (2011).

"Rethinking Higher Education: Olin College of Engineering," R.K. Miller, Chapter 5, pp. 31-40 in *The Civic Series, Civic Engagement, Civic Development, and Higher Education, Bringing Theory to Practice Monographs*, edited by Jill N. Reich, Washington, DC, (2014).

"Olin College of Engineering: Reinventing Engineering Education in the United States," R.K. Miller, and A.-M. Dorning, Chapter 6, pp. 86-102 in *Accelerated Universities*, by Philip Atlbach, Liz Reisberg, Jamil Salmi and Isak Froumin, Brill/Sense, Leiden/Boston, (2018).

PUBLICATIONS

1. "The Acceleration Response of Tall Buildings with Limited Slip Foundations," R.K. Miller, M.S. Thesis, Department of Mechanical Engineering, Massachusetts Institute of Technology, Cambridge, MA, August, 1972.
2. "Experiment to Determine the Vibration Characteristics of a Low Tuned Concrete Turbine Generator Pedestal," K.L. Benuska and R.K. Miller, Report No. KMI 2027, Kinematics, Inc., Pasadena, CA, December 1973, 68 pp.
3. "The Steady-State Response of Multidegree-of-Freedom Systems with a Spatially Localized Nonlinearity," R.K. Miller, Ph.D. Dissertation and Report No. EERL 75-03, Earthquake Engineering Research Laboratory, California Institute of Technology, Pasadena, CA, October 1, 1975, 193 pp.
4. "The Steady-State Response of Systems with a Spatially Localized Nonlinearity," W.D. Iwan and R.K. Miller, *International Journal of Nonlinear Mechanics*, Vol. 12, pp. 165-173 (1977).
5. "An Approximate Method of Analysis of the Transmission of Elastic Waves Through a Frictional Boundary," R.K. Miller, *Journal of Applied Mechanics, ASME*, Vol. 44, pp. 652-656 (1977).
6. "Properties of the Steady-State Response of Locally Nonlinear Systems," R.K. Miller, *Proceedings of the Sixth Canadian Congress of Applied Mechanics*, May 30-June 3, 1977, University of British Columbia, Vancouver, BC, Vol. 1, pp. 445-446.
7. "The Peak Harmonic Response of Locally Nonlinear Systems," R.K. Miller and W.D. Iwan, *Earthquake Engineering and Structural Dynamics*, Vol. 4, pp. 79-87 (1978).
8. "The Steady-State Response of Systems with Hardening Hysteresis," R.K. Miller, *Journal of Mechanical Design, ASME*, Vol. 100, pp. 193-198 (1978).
9. "The Effects of Boundary Friction on the Propagation of Elastic Waves," R.K. Miller, *Bulletin of the Seismological Society of America*, Vol. 68, pp. 987-998 (1978).
10. "Engineering Features of the Santa Barbara Earthquake of August 13, 1978," R.K. Miller and S.F. Felszeghy, Report No. UCSB-ME-78-2, Earthquake Engineering Research Institute, Berkeley, CA, December, 1978, 132 pp.
11. "The Propagation of Elastic Waves Through a Slipping Interface," R.K. Miller, *Eighth U.S. National Congress of Applied Mechanics*, June 26-30, 1978, University of California, Los Angeles, CA, Abstracts and Schedule, p. 11.
12. "The Buckling of Lattice Columns with Stochastic Imperfections," R.K. Miller and J.M. Hedgepeth, *International Journal of Solids and Structures*, Vol. 15, pp. 73-84 (1979).
13. "An Estimate of the Properties of Love-type Surface Waves in A Frictionally Bonded Layer," R.K. Miller, *Bulletin of the Seismological Society of America*, Vol. 69, pp. 305-317 (1979).
14. "Reflection, Refraction and Absorption of Elastic Waves at a Frictional Interface: SH Motion," R.K. Miller and H.T. Tran, *Journal of Applied Mechanics, ASME*, Vol. 46, pp. 625-630 (1979).
15. "The Santa Barbara Earthquake of August 13, 1978," R.K. Miller, *Earthquake Engineering and Structural Dynamics*, Vol. 7, pp. 491-506 (1979).
16. "The Effects of Dry Friction and Slippage Between Layers on Love-type Surface Waves," R.K. Miller, *Proceedings of the Seventh Canadian Congress of Applied Mechanics*, May 27-June 1, 1979, Universite de Sherbrooke, Sherbrooke, Quebec, Vol. 1, pp. 262-264.
17. "Steady Vibroimpact at a Seismic Joint Between Adjacent Structures," R.K. Miller, *Proceedings of the Seventh World Conference on Earthquake Engineering*, Sept. 8-13, 1980, Istanbul, Turkey, Vol. 6, pp. 57-64 (1980).

18. "Computational Aspects of Periodic Structures: An Introduction and a Survey," R.K. Miller, Report No. CE 80-05, Department of Civil Engineering, University of Southern California, Los Angeles, CA, September, 1980, 30 pp.
19. "Selection and Design of an Attitude Control System for a Large Solar Reflector Spacecraft," R.K. Miller, J.M. Hedgepeth, and K. Knapp, Report No. ARC-TN-1090, Astro Research Corporation, Carpinteria, CA, 13 October 1980, 48 pp.
20. "Design of a Solar-Reflector Spacecraft," K. Knapp, J.M. Hedgepeth, and R.K. Miller, Report No. ARC-TN-1091, Astro Research Corporation, Carpinteria, CA, 17 October 1980, 99 pp.
21. "Design Studies for Large Free-Flying Solar-Reflector Spacecraft," J.M. Hedgepeth, R.K. Miller, and K. Knapp, Report No. ARC-R-1015, Astro Research Corporation, Carpinteria, CA, 17 October 1980, 99 pp.
22. "Reflection, Refraction and Absorption of Elastic Waves at a Frictional Interface: P and SV Motion," R.K. Miller and H.T. Tran, *Journal of Applied Mechanics, ASME*, Vol. 48, pp. 155-160 (1981).
23. "Structural Concepts for Ultralightweight Spacecraft," R.K. Miller, L.R. Adams, and J.M. Hedgepeth, Report No. ARC-TN-1104, Astro Research Corporation, Carpinteria, CA, 1 June 1981, 55 pp.
24. "Conceptual Design Studies for Large Free-Flying Solar-Reflector Spacecraft," J.M. Hedgepeth, R.K. Miller, and K. Knapp, NASA CR-3438, June 1981, 110 pp.
25. "Stochastic SH Waves Along a Frictional Interface," R.K. Miller, *Journal of the Engineering Mechanics Division, Proc. ASCE*, Vol. 108, No. EM6, pp. 1262-1276 (1982).
26. "An Algorithm for the Finite Element Analysis of Partly Wrinkled Membranes," R.K. Miller and J.M. Hedgepeth, *AIAA Journal*, Vol. 20, No. 12, pp. 1761-1763 (1982).
27. "Compact Probabilistic Representation of Random Processes," S.F. Masri and R.K. Miller, *Journal of Applied Mechanics, ASME*, Vol. 49, No. 4, pp. 871-876 (1982).
28. "Further Study of Alternate Support Structure Concepts for the Radarsat Antenna," J.M. Hedgepeth, R.E. Lagerquist, K. Knapp, and R.K. Miller, Report No. ARC-TN-1110, Astro Research Corporation, Carpinteria, CA, 31 March 1982, 33 pp.
29. "Compact Probabilistic Representation of Random Processes," S.F. Masri and R.K. Miller, Report No. CE 82-02, Department of Civil Engineering, University of Southern California, Los Angeles, CA, March 1982, 36 pp.
30. "Final Report - A Study of Structural Concepts for Ultralightweight Spacecraft," J.M. Hedgepeth and R.K. Miller, Report No. ARC-TN-1114, Astro Research Corporation, Carpinteria, CA, July 1982, 73 pp.
31. "Elastic Stability of an Inflated Isotensoid Column," R.K. Miller and J.M. Hedgepeth, *Proceedings of the Ninth U.S. National Congress of Applied Mechanics*, Cornell University, Ithaca, NY, June 21-25, 1982.
32. "Orthogonal Decomposition of Earthquake Processes," D.E. Hudson, S.F. Masri, and R.K. Miller, *Proceedings of the Ninth U.S. National Congress of Applied Mechanics*, Cornell University, Ithaca, NY, June 21-25, 1982.
33. "An Efficient Technique for the Approximate Analysis of Vibro-Impact," R.K. Miller and B. Fatemi, *Journal of Vibration, Acoustics, Stress, and Reliability in Design, ASME*, Vol. 105, No. 3, pp. 332-336 (1983).
34. "An Analytical and Experimental Study into the Stability and Control of Nonlinear Flexible Structures," T.J. Dehghanyar, S.F. Masri, R.K. Miller, G.A. Bekey, and T.K. Caughey, *Proceedings*

- of the Fourth VPI and SU/AIAA Symposium on Dynamics and Control of Large Structures*, June 6-8, 1983, Virginia Polytechnic Institute and State University, Blacksburg, VA, pp. 291-310.
35. "Geometric Studies of the Precision of Doubly Curved Reflector Surfaces Supported by Sequentially Deployed Trusses," R.K. Miller and J.M. Hedgepeth, Report No. ARC-TN-1118, Astro Research Corporation, Carpinteria, CA, 14 October 1982, 23 pp. (Final Report, 24 August 1983, 70 pp.)
 36. "Finite Element Analysis of Wrinkling Membranes," R.K. Miller, J.M. Hedgepeth, V.I. Weingarten, P. Das, and S. Kahyai, Report No. USC-CE-8305, Department of Civil Engineering, University of Southern California, Los Angeles, CA, 30 June 1983, 80 pp.
 37. "A Method for Reducing the Order of Nonlinear Dynamic Systems," S.F. Masri, R.K. Miller, H. Sassi, and T.K. Caughey, Report No. USC-CE-8307, Department of Civil Engineering, University of Southern California, Los Angeles, CA, August 1983, 66 pp.
 38. "Final Report - A Study of Structural Concepts for Ultralightweight Spacecraft," R.K. Miller, K. Knapp, and J.M. Hedgepeth, Report No. ARC-TN-1127, Astro Research Corporation, Carpinteria, CA, 15 November, 1983, 84 pp.
 39. "Astromast Design Analysis," J.M. Hedgepeth, R.K. Miller, and K. Knapp, Report No. ARC-TN-1129, Astro Research Corporation, Carpinteria, CA, 16 December, 1983, 8 pp.
 40. "Time Domain Analysis of a Nonlinear System with Limited Slip," S.F. Masri, R.K. Miller, H. Sassi, and T.K. Caughey, Report No. USC-CE-8300, Department of Civil Engineering, University of Southern California, Los Angeles, CA, December 1983.
 41. "A Resonance-Based Linearization Approach for Efficient Analysis of Severely Nonlinear Oscillations," R.K. Miller and M.A. Heidari, *Developments in Mechanics, Vol. 12, Proceedings of the Eighteenth Midwestern Mechanics Conference*, University of Iowa, Iowa City, Iowa, May 16-18, 1983, pp. 23-26.
 42. "Identification and Control of Oscillations in Nonlinear Mechanical Systems," S.F. Masri, R.K. Miller, G.A. Bekey, and T.K. Caughey, *Proceedings of the International Association of Science and Applied Technology for Development, IASTED International Symposium on Applied Control and Identification-ACI '83*, Technical University of Denmark, Copenhagen-Lyngby, Denmark, 28 June-1 July 1983.
 43. "A Method for Reducing the Order of Nonlinear Dynamic Systems," S.F. Masri, R.K. Miller, H. Sassi, and T.K. Caughey, *Journal of Applied Mechanics, ASME*, Vol. 51, No. 2, pp. 391-398 (1984).
 44. "An Averaging Technique for the Analysis of Oscillations in Abruptly Nonlinear Systems," R.K. Miller and M.A. Heidari, *Proceedings of the Second International Conference on Recent Advances in Structural Dynamics*, 9-13 April, 1984, Institute of Sound and Vibration Research, University of Southampton, Southampton, England, Vol. 1, pp. 297-306.
 45. "Time Domain Analysis of Nonlinear Vibration Data," S.F. Masri, R.K. Miller, H. Sassi, and T.K. Caughey, *Proceedings of the Second International Conference on Recent Advances in Structural Dynamics*, 9-13 April, 1984, Institute of Sound and Vibration Research, University of Southampton, Southampton, England, Vol. 2, pp. 551-560.
 46. "Approximate Analysis of Earthquake Response of Impacting Structures," R.K. Miller and M.A. Heidari, *Proceedings of the Eighth World Conference on Earthquake Engineering*, 21-28 July, 1984, San Francisco, CA, Vol. IV, pp. 363-370.
 47. "Description and Representation of Earthquake Ground Motion Records," S.F. Masri, R.K. Miller, and M.I. Traina, *Proceedings of the Eighth World Conference on Earthquake Engineering*, 21-28 July, 1984, San Francisco, CA, Vol. II, pp. 533-540.

48. "Identification of a Nonlinear Building Model from Response Measurements under Earthquake Excitation," J.C. Anderson, S.F. Masri, R.K. Miller, H. Sassi, and T.K. Caughey, *Proceedings of the Eighth World Conference on Earthquake Engineering*, 21-28 July, 1984, San Francisco, CA, Vol. VI, pp. 95-102.
49. "Orthogonal Decomposition and Transmission of Nonstationary Random Processes," M.I. Traina, R.K. Miller, and S.F. Masri, *ASME, Applied Mechanics Division, Symposium Volume on "Random Vibration,"* (invited contribution), AMD-Vol. 65, 1984, T.C. Huang and P.D. Spanos, Eds., pp. 171-193.
50. "Finite Element Analysis of Partly Wrinkled Membranes," R.K. Miller, J.M. Hedgepeth, V.I. Weingarten, P. Das, and S. Kayai, *Proceedings of the Symposium on Advances and Trends in Structures and Dynamics*, 22-25 October, 1984, Washington, DC, pp. 631-639.
51. "Semi-Active Control of Nonlinear Flexible Structures," T.J. Dehghanyar, S.F. Masri, and R.K. Miller, *XVIth International Congress of Theoretical and Applied Mechanics*, August 19-25, 1984, Lyngby, Denmark, Abstract No. 488.
52. "Evaluation of On-Line Pulse Control for Vibration Suppression in Flexible Spacecraft," S.F. Masri and R.K. Miller, *Proceedings of the NASA SCOLE (Spacecraft Control Laboratory Experiment) Workshop*, 6-7 December, 1984, NASA Langley Research Center, Hampton, VA, pp. 282-318.
53. "A Time-Domain Method for the Identification and Modeling of Nonlinear Vibrating Structures," S.F. Masri and R.K. Miller, *Proceedings of the XVIth International Congress of Theoretical and Applied Mechanics*, The Technical University of Denmark, Lyngby, Denmark, August 19-25, 1984.
54. "Orthogonal Decomposition and Transmission of Nonstationary Random Processes," S.F. Masri and R.K. Miller, *ASME Applied Mechanics Division Meeting*, ASME Winter Annual Meeting, New Orleans, LA, 1984, pp. 171-193.
55. "Sub-Optimal Control of Nonlinear Flexible Space Structures," T.J. Dehghanyar, S.F. Masri, R.K. Miller, G.A. Bekey, and T.K. Caughey, *Proceedings of the Workshop on Identification and Control of Flexible Space Structures*, 4-6 July, 1984, San Diego, CA, NASA JPL Publication 85-29, Vol. II, April 1, 1985, pp. 365-380.
56. "Finite Element Analysis of Partly-Wrinkled Membranes," R.K. Miller, J.M. Hedgepeth, V.I. Weingarten, P. Das, and S. Kahyai, *Journal of Computers and Structures*, Vol. 20, No. 1-3, pp. 631-639 (1985).
57. "A Finite Element-Equivalent Energy Linearization Technique for the Analysis of Nonlinear Plate Vibration," M.A.E. Ghabrial, R.K. Miller, and L.C. Wellford, Jr., *International Journal of Numerical Methods in Engineering*, Vol. 21, pp. 1499-1520 (1985).
58. "Multiaxis Experimental Determination of Bearing Friction Characteristics," S. Rubin and R.K. Miller, *AIAA/ASME/ASCE/AHS 26th Structures, Structural Dynamics and Materials Conference*, April 15-17, 1985, Orlando, FL, paper no. AIAA-85-0702-CP.
59. "Active Vibration Control of Large Civil Structures," R.K. Miller, S.F. Masri, T.J. Dehghanyar, and T.K. Caughey, *AIAA/ASME/ASCE/AHS 26th Structures, Structural Dynamics and Materials Conference*, April 15-17, 1985, Orlando, FL, paper no. AIAA-85-0681-CP. (invited contribution).
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61. "Orthogonal Decomposition of Nonstationary Random Processes," M.I. Traina, R.K. Miller, S.F. Masri, and R.E. Kaplan, *AIAA/ASME/ASCE/AHS 26th Structures, Structural Dynamics and Materials Conference*, April 15-17, 1985, Orlando, FL, paper no. AIAA-85-0657-CP.

62. "On-Line Parameter Control of Nonlinear Flexible Structures," T.J. Dehghanyar, S.F. Masri, R.K. Miller, and T.K. Caughey, *Second International Union of Theoretical and Applied Mechanics Conference on Structural Control*, University of Waterloo, Ontario, Canada, 15-17 July, 1985, Proceedings, IUTAM Symposium, H.H.E. Leipholz, editor.
63. "On the Design of an Optimal Seismic Isolation System," R.K. Miller and R.M. Setbacken, *Transactions of the Society of Automotive Engineers*, Vol. 6, pp. 813-819 (1986).
64. "Orthogonal Decomposition and Transmission of Non-Stationary Random Processes," R.K. Miller, M.I. Traina, and S.F. Masri, *Probabilistic Engineering Mechanics*, Vol. 1, No. 3, pp. 136-149 (1986).
65. "Development of a Nonlinear Model for UCSB North Hall Response Under Earthquake Loads," J.C. Anderson, S.F. Masri, R.K. Miller, A.F. Saud, and T.K. Caughey, *Proceedings of the ASCE Engineering Mechanics Division Specialty Conference on Dynamic Response of Structures*, University of California, Los Angeles, CA, 31 Mar.-2 Apr., 1986.
66. "Evaluation of On-Line Pulse Control for Vibration Suppression in Flexible Spacecraft," R.K. Miller, G.A. Bekey, and S.F. Masri, *Proceedings of the 3rd Annual SCOPE Workshop*, NASA Langley Research Center, Hampton, VA, 17 November 1986.
67. "Seismic Impact of Adjacent Structures," R.K. Miller, *Proceedings of the U.S.-France Workshop on Quality Guidelines for the Practice of Earthquake Engineering*, 26-28 May, 1986, Paris, France.
68. "A Weighted Linearization Approach for Severely Nonlinear Oscillations in Stiffness-Dominated Systems," R.K. Miller and M.A. Heidari, *Proc. ASCE Structural Congress*, 15-18 September, 1986, New Orleans, LA.
69. "A Method for the Identification of Nonlinear Systems," S.F. Masri, R.K. Miller, A.F. Saud, and T.K. Caughey, *Proc. 10th U.S. National Congress of Applied Mechanics*, 16-20 June, 1986, University of Texas, Austin, TX.
70. "On-Line Parameter Control of Nonlinear Vibrating Structures," T.J. Dehghanyar, S.F. Masri, R.K. Miller, and T.K. Caughey, *Proc. 10th U.S. National Congress of Applied Mechanics*, 16-20 June, 1986, University of Texas, Austin, TX.
71. "A Weighted Linearization Approach for Severely Nonlinear Oscillations in Stiffness-Dominated Systems," R.K. Miller and M.A. Heidari, *Proc. ASCE Structural Congress*, 15-18 September, 1986, New Orleans, LA.
72. "Identification of Nonlinear Vibrating Structures; Part I: Formulation," S.F. Masri, R.K. Miller, A.F. Saud, and T.K. Caughey, *Journal of Applied Mechanics, ASME*, Vol. 109, pp. 918-922 (1987).
73. "Identification of Nonlinear Vibrating Structures; Part II: Applications," S.F. Masri, R.K. Miller, A.F. Saud, and T.K. Caughey, *Journal of Applied Mechanics, ASME*, Vol. 109, pp. 923-929 (1987).
74. "Structural Concepts for Large Solar Concentrators," J.M. Hedgepeth, and R.K. Miller, Report No. AAC-TN-1146, Astro Aerospace Corporation, Carpinteria, CA, 10 March, 1987, 57 pp.
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88. "A System Identification Approach to the Detection of Structural Changes," M.S. Agbabian, S.F. Masri, R.K. Miller, and T.K. Caughey, *Journal of the Engineering Mechanics Division*, ASCE, Vol. 117, No. 2, pp. 370-390 (1990).
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90. "Structural Control of Cable-Supported Bridges," S.F. Masri and R.K. Miller, *Proc. of the U.S. National Workshop on Structural Control Research*, 25-26 October, 1990, University of Southern California, Los Angeles, CA, pp. 66-67.

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93. "Development of Bearing Friction Models from Experimental Measurements," S.F. Masri, R.K. Miller, M.I. Traina, and T.K. Caughey, *Journal of Sound and Vibration*, Vol. 148, No. 3, pp. 455-475 (1991).
94. "Mesh Pillowing in Deployable Offset Paraboloidal Umbrella Reflector Antennas," A. Prata, Jr., W.V.T. Rusch, and R.K. Miller, *Proc. of the 1991 North American Radio Science Meeting and International IEEE/AP-S Symposium*, 24-28 June, 1991, University of Western Ontario, London, Ontario, Canada, pp. 662-665.
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97. "Starting with a Clean Slate at the New Franklin W. Olin College of Engineering: An Extraordinary Opportunity for Innovation," Richard K. Miller, (Invited Keynote Address), *Proc. Workshop on Implementing Curricular Change in Engineering Education*, 19-20 October, 2001, Union College, Schenectady, NY, pp. 3-10.
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99. "Designing from a Blank Slate – The Development of the Initial Olin College Curriculum," S. Kerns, R. Miller, and D. Kerns, Jr., *Educating the Engineer of 2020: Adapting Engineering Education to the New Century*, The National Academies Press, Washington, DC , 98-113, (2005).
100. "Building a New Paradigm for Undergraduate Engineering Education," R.K. Miller, *Proc. of the UKC 2006 International Conference, Korean-American Scientists and Engineers Association*, Teaneck, NJ, August, 2006.
101. "Re-Inventing Engineering Education," Richard K. Miller, *Proc. 2008 Global Management of Technology Forum*, Seoul, Republic of Korea, January 30, 2008.
102. "The New Liberal Education," R.K. Miller, (adapted from invited plenary address), *Proc. of the 2008 Baker Forum: What Does it Mean to be a Polytechnic University in the 21st Century?*, California Polytechnic State University, San Luis Obispo, CA, May 2-4, 2008.
103. "From the Ground Up: Rethinking Engineering Education in the 21st Century," R.K. Miller, *Proc. of the Symposium on Engineering and Liberal Education*, pp. 3-20, Union College, NY, June 3-4, 2010.
104. "The NAE Grand Challenge Scholars Program," T. Katsouleas, R.K. Miller and Y. Yortsos., *The Bridge*, The National Academy of Engineering, pp. 53-56, Summer 2013.

105. "Model Collaboration for Advancing Student-Centered Engineering Education," R.K. Miller, *Olin-UTEP Partnership*, FIE Panel #15697234499, July 24, 2014.
106. "Why the Hard Science of Engineering is No Longer Enough to Meet the 21st Century Challenges," R.K. Miller, *Proc. of the New Approaches to Engineering in Higher Education, The Institution of Engineering and Technology*, pp. 77-94, London, May 22, 2017.

GRANTS

- "The Dynamics of Structures with Localized Nonlinearity", National Science Foundation, (Nov. 15, 1977 to Nov. 14, 1979)
- "The Dynamics of Structures with Localized Nonlinearity", National Science Foundation, (Jan. 15, 1981 to Jan. 14, 1983)
- "Finite Element Analysis of Wrinkling Membranes", National Aeronautics and Space Administration, P.I.: R.K. Miller, Co-P.I.: V.I. Weingarten (Dec. 1, 1981 to Nov. 30, 1982)
- "An Experimental Investigation of the On-Line Pulse Control of Earthquake Excited Structures", National Science Foundation P.I.: S.F. Masri, Co-P.I.: G.A. Bekey and R.K. Miller, (May 1, 1984 to Oct. 31, 1985)
- "U.S. - France Workshop on the Quality Guidelines for the Practice of Earthquake Engineering", National Science Foundation, P.I.: M.S. Agabian, Co-P.I.: R.K. Miller, (Jan. 1, 1986 to Dec. 31, 1986)
- "An Experimental Investigation of the On-Line Pulse Control of Earthquake Excited Structures", National Science Foundation, Co-P.I.'s: S.F. Masri and R.K. Miller, (Mar. 1, 1984 to Oct. 31, 1986)
- "Evaluation of On-Line Pulse Control for Vibration Suppression in Flexible Spacecraft", National Aeronautics and Space Administration, Co-P.I.'s: G.A. Bekey, S.F. Masri and R.K. Miller, (Feb. 1, 1986 to Jan. 31, 1987)
- "Development of a Data Base for the Response Characteristics of Selected Mexico City Buildings Under Ambient Excitations", National Science Foundation, Co-P.I.'s: S.F. Masri and R.K. Miller, Co-Investigator: J.L. Trigos, Mexican Society of Structural Engineers, (July, 1986 to May, 1991)

ENGINEERING CONSULTING

1973	Kinematics, Inc., Pasadena, CA (Engineer on ambient vibration tests of full scale structures)
1974-75	Mason Industries, Los Angeles, CA (Consultant on earthquake isolation of mechanical equipment)
1977-92	Astro Aerospace Corporation (now Northrop Grumman subsidiary), Carpinteria, CA (Consultant on aerospace structures and dynamics)
1980	Jet Propulsion Laboratory, Pasadena, CA NASA Advisory Panel on Structural Concepts for Gossamer Spacecraft
1981	Jet Propulsion Laboratory, Pasadena, CA (Consultant on Gossamer spacecraft)
1983	Hughes Aircraft Company - Ground Systems Group (now Raytheon), Fullerton, CA (Consultant on structural design)

1984 The Aerospace Corporation, El Segundo, CA
(Consultant on experimental determination of dynamic friction characteristics)

TEACHING

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

Fall 1975	ME 219*	Continuum Mechanics
Winter 1976	ME 140b ME 202*	Theoretical Analysis in Mechanical Engineering Advanced Dynamics
Spring 1976	ME 140c	Theoretical Analysis in Mechanical Engineering
Fall 1976	ME 140a ME 202*	Theoretical Analysis in Mechanical Engineering Advanced Dynamics
Winter 1977	ME 140b	Theoretical Analysis in Mechanical Engineering
Spring 1977	ME 140c ME 234a*	Theoretical Analysis in Mechanical Engineering Structural Dynamics
Fall 1977	ME 140a ME 234b*	Theoretical Analysis in Mechanical Engineering Structural Dynamics
Winter 1978	ME 140b ME 202*	Theoretical Analysis in Mechanical Engineering Advanced Dynamics
Spring 1978	ME 234a*	Structural Dynamics
Fall 1978	ME 140a ME 234b*	Theoretical Analysis in Mechanical Engineering Structural Dynamics
Winter 1979	ME 140b ME 156bL	Theoretical Analysis in Mechanical Engineering Engineering Materials and Design Concepts
Spring 1979	ME 216*	Stochastic Dynamics

UNIVERSITY OF SOUTHERN CALIFORNIA

Fall 1979	CE 227 CE 408	Mechanics of Materials I Risk Analysis in Civil Engineering
Spring 1980	CE 227 CE 408	Mechanics of Materials I Risk Analysis in Civil Engineering
Fall 1980	CE 227 CE 408	Mechanics of Materials I Risk Analysis in Civil Engineering
Spring 1981	CE 227 CE 408	Mechanics of Materials I Risk Analysis in Civil Engineering
Fall 1981	CE 227 CE 408	Mechanics of Materials I Risk Analysis in Civil Engineering
Spring 1982	CE 227 CE 408	Mechanics of Materials I Risk Analysis in Civil Engineering
Fall 1982	CE 226 CE 408	Analytical Mechanics I Risk Analysis in Civil Engineering

Spring 1983	CE 226 CE 408	Analytical Mechanics I (Course Administrator) Risk Analysis in Civil Engineering
Fall 1983	CE 226 AE/CE 541a*	Analytical Mechanics I (Course Administrator) Dynamics of Structures
Spring 1984	CE 226 AE/CE 541b*	Analytical Mechanics I (Course Administrator) Dynamics of Structures
Fall 1984	CE 228 AE/CE 541a* AE 353	Analytical Mechanics I (Course Administrator) Dynamics of Structures Aerospace Structures I
Spring 1985	CE 228 AE/CE 541b*	Engineering Mechanics II Dynamics of Structures
Fall 1985	AE/CE 541a* AE 353	Dynamics of Structures Aerospace Structures I
Spring 1986	AE/CE 541b* CE 428	Dynamics of Structures Mechanics of Materials II
Fall 1986	CE 541a*	Dynamics of Structures
Spring 1987	CE 227 AE/CE 541b*	Engineering Mechanics I Dynamics of Structures
Fall 1987	CE 227	Engineering Mechanics I
Spring 1988	CE 227 CE 530*	Engineering Mechanics I Nonlinear Mechanics
Fall 1988	CE 227 AE 353	Engineering Mechanics I Aerospace Structures I
Spring 1989	AE/CE 499 CE 227	Structural Concepts Design Project Engineering Mechanics I
Spring 1990	AE/CE 429	Structural Concepts Design Project
Fall 1990	CE 227	Engineering Mechanics I
Spring 1991	AE 453 CE 429	Aerospace Structural Design Project Structural Concepts Design Project
Fall 1991	CE 227	Engineering Mechanics I
Spring 1992	AE 453 CE 429	Aerospace Structural Design Project Structural Concepts Design Project

* Graduate course

UNIVERSITY OF IOWA

Spring 1995	57:007	Statics
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FRANKLIN W. OLIN COLLEGE OF ENGINEERING

Fall 2004	ENGR 3320 CC 3100	Mechanics of Solids and Structures Readings in Leadership and Ethics
Spring 2005	ENGR 3320 CC 3100	Mechanics of Solids and Structures Readings in Leadership and Ethics
Fall 2005	AHSE 3199	Issues in Leadership and Ethics
Fall 2006	AHSE 3199 ENGR 31XX	Issues in Leadership and Ethics Special Topics in Mechanics and Structural Design
Spring 2008	AHSE 3199	Issues in Leadership and Ethics
Spring 2009	AHSE 3199	Issues in Leadership and Ethics
Spring 2010	AHSE 3199	Issues in Leadership and Ethics
Spring 2011	AHSE 3199	Issues in Leadership and Ethics
Spring 2012	AHSE 3199	Issues in Leadership and Ethics
Spring 2013	AHSE 3199	Issues in Leadership and Ethics
Spring 2014	AHSE 3199	Issues in Leadership and Ethics
Spring 2015	AHSE 3199	Issues in Leadership and Ethics

NOTE: List above excludes all summer courses and individual/independent study/thesis research courses.

GRADUATE THESIS SUPERVISION**UNIVERSITY OF CALIFORNIA, SANTA BARBARA**

FATEMI, Bahram, Ph.D., Mechanical Engineering, 1980
"Dynamic Interaction of Adjacent Structures Through a Nonlinear Connection"

SETBACKEN, Robert Malcolm, M.S. Mechanical Engineering, 1979
"A Competing Variables Approach to the Design of an Optimal Seismic Isolation System"

TAYLOR, David Graham, M.S. Mechanical Engineering, 1981
"Analysis of North Hall Response to 13 August 1978 Santa Barbara Earthquake Using Finite Element Structural Program ETABS"

TRAN, Hoi Tien, M.S., Mechanical Engineering, 1978
"Reflection, Transmission and Absorption of Elastic Waves at a Frictional Boundary"

UNIVERSITY OF SOUTHERN CALIFORNIA

ALWASH, Azzam Jawad Mahdi, Ph.D., Civil Engineering, January 1990
"An Approximate Analysis of Lateral Vibrations of a Loosely-Bonded Pile"

BAN, Seung Pyo, Ph.D., Civil Engineering, 1986
"Transient Response Techniques for Large Locally-Nonlinear Systems"

CHOU, Shen-Ping, Ph.D., Civil Engineering, November 1990
"Constrained Optimal Design of a Nonlinear Dynamic System"

HEIDARI, Mohammad Ali, Ph.D., Civil Engineering, July 1984
"An Approximate Technique for the Analysis of Oscillations in Abruptly Nonlinear Systems"

KIM, Chang Hyo, Ph.D., Aerospace Engineering, May 1994
"Mechanics of Solid Failure"
(*co-advisor with Prof. Hsien-Yang Yeh of Cal State Long Beach*)

STOKIC, Dragan Z., Ph.D., Civil Engineering, July 1994
"Modeling, Control and Stability of Nonlinear Mechanical Systems via Hamilton's Mechanics"