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Education

Ph.D.	Texas A&M University	Architecture	2005
Certificate	Texas A&M University	Historic Preservation	2005
MS	Columbia University, New York	Historic Preservation	1991
BS	University of California, Davis	Landscape Architecture	1989

Teaching Experience Institution

2005-present	California State University, Chico	Director/Program Coordinator Assistant Professor
2001	University of South Carolina	Lecturer
1997-1998	Texas A&M University	Assistant Lecturer
1997	University of Colorado, Denver	Honorary Instructor
1994-1996	University of Texas, San Antonio	Lecturer
1987-1989	University of California, Davis	Teaching Assistant

Academic & Association Committees; Participation in Professional Groups

Texas A&M University, Center for Heritage Conservation - Research Fellow

CSU Chico, College of Engineering - Administrative Council, Materials Lab, & Curriculum Committees

Association for Preservation Technology International - Technical Committee for Sustainable Preservation: Rating Systems and Life Cycle Assessment Working Group;
Journal article peer reviewer; past member, Publications Committee

International Concrete Repair Institute – Education Committee, Non-Destructive Testing Committee

CSU Chico, CIM Program - Patron Recruitment, Student Recruitment, Program Outreach, Web Master, Graphics: Poster Design, Flyers, CIM Logo, Photography

National Center for Preservation Technology and Training – past Grant Program peer reviewer

Academic Courses Taught

Fundamentals of Concrete: Properties & Testing – undergraduate lecture & lab
Concrete Repair & Investigation – undergraduate lecture & lab
Introduction to Concrete - undergraduate
Construction Graphics - undergraduate
Historic Preservation – graduate
History of American Architecture – graduate and undergraduate
Beginning and Advanced Computer Graphics – graduate and undergraduate
Architectural Design Studio – undergraduate
Various Special Topics Seminars – graduate and undergraduate

Certifications and Professional Development

2007 Concrete Repair Certificate, American Concrete Institute
2007 Professor's Training Seminar, Advanced Cement Based Materials/Portland Cement Association, Chicago, IL.
2007 Concrete Repair Certification, World of Concrete, Las Vegas, NV
2006 Pervious Concrete Certified Installer, Nat'l Ready Mixed Concrete Association
2006 Concrete Bridge Design Professor's Seminar, Portland Cement Association, Chicago, IL
2006 Reinforced Concrete Building Design Professor's Seminar, Portland Cement Association, Chicago, IL

Grants, Funded Projects, Research

2008-present "Recycled Concrete Survey," Portland Cement Association. Co-Principal Investigator for closing surveys and report, \$44,280.

2008-present California Pavement Preservation Center, California State University, Chico, faculty. Research projects currently being discussed.

2007-2008 CSU Research Scholarship and Creative Activity Grants. Awarded grant for .2 assigned time plus operating expenses for Pointe du Hoc project.

2006-present Concrete Lab Equipment for College of Engineering Materials Lab. Coordinated turn-key materials lab equipment proposal with Construction Technology Laboratories (CTL), Chicago, and Toni Technik, Germany. Secured substantial discount and helped coordinate installation and training for purchased equipment.

2006-present "Historic Concrete Investigations at Pointe du Hoc, Normandy, France." Directed team and participated in testing and evaluation of WWII concrete bunkers. On-site in-situ testing using state-of-the-art non-destructive testing equipment. Laboratory testing of concrete samples at Construction Technology Laboratories (CTL), Chicago. Collaborative project with related cliff stabilization and site survey projects by Texas A&M University and the American Battle Monuments Commission. Directed fundraising for five CIM students to participate in on-site testing in France.

- 2006-present “Accelerated Expansion of the Concrete Industry Management Program,” National Science Foundation. Co-Principal Investigator, California State University, Chico. \$97,140.
- 2007 International Concrete Repair Institute (ICRI) Student Travel Scholarships. Secured \$3000 expense reimbursement for four CIM students to attend ICRI national conference.
- 2006 “Historic Resource Assessment, Freemont Weir,” Archaeological Research Program, California State University, Chico. Senior Architectural Historian in charge of evaluating significance of historic concrete weir.
- 2006 “Historic Resource Assessment, Willow Slough Weir and Weir #2,” Archaeological Research Program, California State University, Chico. Senior Architectural Historian in charge of evaluating significance of historic weir structures.
- 2006 Travel and Conference Stipend for the Concrete Technology Forum: Focus on Pervious Concrete, Nashville, Tennessee. California Nevada Cement Promotion Council, \$1400.
- 1996-1998 “Developing Standards and Procedures for Recording Courthouses using Customized Digital Technologies,” National Center for Preservation Technology and Training, National Park Service. Principal Investigator, Texas A&M University. \$40,000.
- 1988-1989 “Digitally Based Approaches for Recording National Park Service Historic Structures,” U.S. Forest Service. Student Research Assistant, University of California, Davis.

Professional Experience, Non-Institution

- 1994-1996 CADD Lab Coordinator & Campus-Wide Computer Instructor for Faculty, University of Texas, San Antonio.
- 1992-1993 Project Manager/Architectural Intern, Marmon Mok, Architects and Engineers, San Antonio, Texas. Preservation expert for San Antonio’s largest architecture/engineering firm. Historic building rehabilitation design, documentation, and materials conservation; federal historic preservation tax credit author, construction document development, team management, on-site project administration, materials and legislative requirements training for architects, engineers, and general contractors dealing with historic buildings.
- 1988 & 1991 Architectural Team, Main Street Program, California Office of Historic Preservation. Façade rehabilitation design, preservation of façade and streetscape materials, computer aided drafting trainer, building owner consultant.

- 1991 Draftsperson/AutoCAD Specialist, Steve Sherod & Associates, Lake Almanor, California. Residential design and construction document development.
- 1987 Architectural Technician, Historic American Buildings Survey (HABS), National Park Service. Measured drawings of the Texas State Capitol for use in restoration and submittal to historical archives in the Library of Congress; first HABS student team to produce measured drawings with computer graphics.

Selected Consultancies, Presentations & Publications

- 2008 Session Chairman, Moderator, Speaker, “Historic Concrete Investigations at Pointe du Hoc, Normandy, France.” Association for Preservation Technology International Annual Conference. Montreal, Canada. Scheduled for October 2008.
- 2008 Author with Richard Burt, Ph.D., “Historic Concrete Investigations at Pointe du Hoc, Normandy, France,” *Concrete in Focus*, National Ready Mixed Concrete Association, Summer 2008.
- 2008 Author, “Concrete Repair in the New Century,” *Concrete Repair Bulletin*, International Concrete Repair Institute, The role of concrete durability, longevity, and repair in sustainable built environments, January 2008.
- 2007 Presentation and Poster, Associated Schools of Construction Annual Conference. “Research in Progress: Historic Concrete Investigations at Pointe du Hoc, Normandy, France.” Flagstaff, Arizona.
- 2007 Presentation, American Institute of Architects Annual Design Conference, “The Greening of Concrete.” Monterey, CA.
- 2007 Presentation, American Institute of Architects Professional Practice Seminar. “The Greening of Concrete.” San Diego.
- 2007 Presentation, American Institute of Architects Professional Practice Seminar. “The Greening of Concrete.” Los Angeles.
- 2007 Presentation, “CIM Program Update.” American Concrete Institute, Northern California Chapter.
- 2007 Presentations and Lab Exercises, “Concrete.” Freshman Awareness Day, CSU, Chico. Student evaluations rated the session “most fun”.
- 2006 Paper accepted for American Institute of Architects, Historic Resources Committee and the Committee on the Environment: Energy, Sustainability, and Memory conference, Minneapolis-St. Paul, November 2006. Conference subsequently cancelled prior presentation.
- 2006 Participant, Strategic Planning Session, National Ready Mixed Concrete Association Annual Meeting. San Antonio, Texas.

- 2006 Guest, "Open Line to the West Coast with Dr. Bill Wattenburg," KGO Radio, ABC San Francisco. Concrete Industry Management Program Outreach and Student Recruitment.
- 2006 Author, "SketchUp Training Guides," Construction Graphics Course, California State University, Chico. 3D visualization and 2D building plan comprehension for college students in majors related to the building trades. Unpublished; used by others for professional demonstration purposes in Texas and California.
- 2002 Presenter, Historic Preservation Symposium, Historic Resources Imaging Laboratory, Texas A&M University. Presentation of in-progress Ph.D. dissertation to international professional audience.
- 1998 Researcher & author, "Developing Standards and Procedures for Recording Courthouses using Customized Digital Technologies," National Center for Preservation Technology and Training, National Park Service. Procedural manual and customized digital database template. Unpublished.
- 1994 Presenter, Texas Historic Commission's "Certified Local Government Workshop Linking Technology and Preservation." Dallas, Texas.
- 1995 Presenter, Texas Society of Architects conference, Dallas, Texas. New advances in computer graphics for use in historic building preservation.
- 1995 Presenter, Association for Preservation Technology International Conference, Washington, D.C. Presentation of new methodology for producing HABS drawings using combined raster, vector, and desktop publishing tools integrated with photographic negative layering system.
- 1995 Team Member, Kerrville Resource Team, Texas Main Street Program. Building preservation consultation; on-site computer simulations of building and streetscape rehabilitation alternatives; presentation of solutions at public Town Hall workshop.
- 1995 Co-author, "Kerrville Resource Team Report," Kerrville Resource Team, Texas Main Street Program.
- 1995 Workshop Chairman/Presenter, "New advances in computer graphics." Texas State Historic Preservation Conference, Texas Historical Commission.
- 1995 Course Instructor/Presentation Coordinator, Exhibit of advanced student computer graphic/historic preservation projects, National Trust Conference, Ft. Worth, Texas.
- 1994 "Computer Forum," Association for Preservation Technology, *Bulletin*.

1994 Computer Graphics Workshop Presenter/Trainer, Association for Preservation Technology International Conference, Seattle, Washington.

Selected Projects

- 2005 Ph.D. Dissertation, "Historic Building Documentation in the United States, 1933-2000: The Historic American Buildings Survey, A Case Study." Texas A&M University. Historical Development of the National Park Service's HABS program focusing on how historic buildings and sites have been recorded and interpreted by HABS since the program's inception in 1933.
- 1995 Waa Bon See historic site. Waa Bon See, Texas. Historic building rehabilitation and additions for historic stone and cement mortar masonry buildings; on-site digital documentation leader; design team member.
- 1994 Proposed Business Building 3D Computer Animation. Office of the Vice President, University of Texas, San Antonio. Interior, exterior, day & night fly-by & walk-through of proposed 200,000 s.f. campus building for official University marketing and presentations.
- 1994 Sign Ordinance Evaluation. City of San Antonio, Department of Planning. Assessment and digital simulation of proposed city sign ordinance.
- 1993-1994 Hava Java Renovation. San Antonio, Texas. Coffee house on the San Antonio Riverwalk. Renovation project management; primary architectural design; concrete, wood, & brick/mortar assessment and preservation; construction document coordination; construction administration; concrete floor overlay installer; carpentry; construction and sub-contractor coordination responsibilities for owner.
- 1992-1993 The Havana Riverwalk Inn Rehabilitation. Marmon Mok, Architects and Engineers, San Antonio, Texas. Rehabilitation of historic hotel listed on the National Register of Historic Places. Project management; primary architectural design; concrete, wood, & brick/mortar assessment and preservation; structural system evaluation and retrofit design; construction document coordination; construction administration; Federal Tax Credit application author and administrator. To view completed hotel, see:
<http://www.havonariverwalkinn.com/>
- 1992-1993 Alamo Dome, San Antonio, Texas. Marmon Mok, Architects and Engineers. Construction document development; on-site evaluation of interior exposed concrete floor and concrete block wall surfaces and other finishes.
- 1992-1993 Texas A&M Recreational Sports Center, College Station, Texas. Marmon Mok, Architects and Engineers. Construction document development.
- 1992-1993 Military Commissary, Fort Sam Houston, U.S. Army, San Antonio, Texas. Marmon Mok, Architects and Engineers. Construction document development.

- 1990-1991 Master's Thesis, "The Main Street Façade Rehabilitation Manual for Non-Professionals", Columbia University and Main Street New Jersey Program. Guide for owners of historic buildings to self-assess historic façade significance and encourage design and materials preservation.
- 1989 Historic WHW Building Stucco Façade Renovation, Greenville, California. Façade renovation design; stucco and wood façade system assessment; carpentry; construction and sub-contractor coordination responsibilities for owner.
- 1989 Evaluation and Preservation of Historic Stucco, Concrete, and Wood Façade and Streetscape Designs and Materials, Greenville, California. Consultant and organizational leader for downtown building owners.

Awards and Recognition

- 2000 American Institute of Architects (AIA) San Antonio, Texas, Architectural Design Citation Award, Havana Riverwalk Inn.
- 1987 Historic American Buildings Survey, Texas State Capitol Measured Drawing Selected for National Poster.

Public Service and Community Contributions

- 2006-present Sierra View Elementary School. Classroom Volunteer.
- 2004-present Butte College Athletic Department. Annual Fiscal & Event Support.
- 2004-2007 Financial and other support for Chico State Nursing Student.
- 2005-2006 Butte Glenn Medial Society Alliance. Member, web site manager.
- 1995 "Internet Odyssey." San Antonio, TX. Development and Coordinating Committee.
- 1995 City-wide exposition to increase public awareness about the Internet "Expanding Your Horizons." High School Career Seminar, University of Texas, San Antonio. Workshop Presenter, University of Texas, San Antonio.