

John H. Matthys PhD, PE
Dr. Tseng Huang Endowed Professor of Civil Engineering
Director of Construction Research Center
University of Texas at Arlington

Professional Resume

EDUCATION:

B.S. Architectural Engineering, University of Texas at Austin, May 1964

M.S. Architectural Engineering, University of Texas at Austin, January 1967

Ph.D. Civil Engineering, University of Texas at Austin, January 1972

EXPERIENCE:

	<u>Title</u>	<u>Dates</u>	<u>Brief Description of Duties</u>
UT Arlington	Director	1976 - Present	Manage Construction Research Center
UT Arlington	Professor	1987 - Present	Teaching and Research Civil Engineering
UT Arlington	Associate Professor	1980 - 1987	Teaching and Research Civil Engineering
UT Arlington	Assistant Professor	1974 - 1980	Teaching and Research Civil Engineering
University of Wyoming	Assistant Professor	1972 - 1974	Teaching - C.E. and Architectural Engineering
UT Austin	Teaching Assistant	1967 - 1972	Teaching - C.E. and Architectural Engineering
Barnes, etc. Austin, TX	Structural Design	1965-1967	Design Buildings

11. "Performance of Mortars Produced Under the Proportion Specification of ASTM C 270-86a, American Society of Testing and Materials, STP #1063, *Masonry: Components To Assemblages*, July 1990.
12. Matthys, J.H. and Bailey, W., "Initial Rate of Absorption of Clay Brick Considering Both Faces in The As Received Condition and After Outside Exposure," American Society of Testing and Materials, STP #1063, *Masonry: Components To Assemblages*, July 1990.
13. "Water Penetration Investigation of Concrete Block Assemblages Using Conventional Masonry Mortars," *Proceedings of the Fifth North American Masonry Conference*, University of Illinois, Urbana-Champaign, Illinois, June 1990.
14. Bailey, W. and Matthys, J.H., "Education and The Masonry Society," *Proceedings of the Fifth North American Masonry Conference*, University of Illinois, Urbana-Champaign, Illinois, June 1990.
15. "Concrete Masonry Flexural Bond Strength - Prisms Versus Wall Tests," *Proceedings of the Fifth North American Masonry Conference*, University of Illinois, Urbana-Champaign, Illinois, June 1990.
16. Sriboonlue, W. and Matthys, J.H., "Torsional Behavior of Reinforced Brick Beams," *Journal of Structural Engineering*, ASCE, 116 (6), 1990, pp. 1626-1647.
17. "Brick Masonry Flexural Bond Strengths Using Conventional Masonry Mortars," Fifth Canadian Masonry Symposium, Vancouver, British Columbia, June 1989.
18. "Brick Masonry Diagonal Tension (Shear) Tests," Fifth Canadian Masonry Symposium, Vancouver, British Columbia, June 1989.
19. "Cracking Behavior of Reinforced Brick Masonry Beams Under Torsional Loading," Eighth International Brick/Block Masonry Conference, Republic of Ireland, September 1988, pp. 707-715.
20. "Flexural Bond Strengths of Portland Cement Lime and Masonry Cement Mortars," Eighth International Brick/Block Masonry Conference, Republic of Ireland, September 1988, pp. 707-715.
21. "An Investigation of an Extended Plastic Life Mortar," *Masonry: Materials, Designs, Construction, and Maintenance*, American Society of Testing and Materials, STP 992, July 1988, pp. 193-219.

22. "Standard Design of Sedimentation Pit," *Professional Car Washing*, Vol. 10, No. 1, January 1986, pp. 83-94.
23. "An Ultimate Strength Investigation of Reinforced Brick Masonry Beams," *Proceedings of the Third North American Masonry Conference*, Arlington, Texas, June 1985, pp. 69-1 to 69-14.
24. "Ultimate Strength Theory For Reinforced Brick Masonry," *Masonry: Research Applications & Problems*, American Society of Testing and Materials, STP 871, April 1985, pp. 38-66.
25. "Flexural Strength of Brick Masonry with Age," *Proceedings of the Fifth International Brick Masonry Conference*, The Brick Institute of America, October 5-10, 1979, pp. 114-121.
- 26.. "Structural Strength of Hollow Clay Tile Assemblages," *Journal of the Structural Division*, American Society of Civil Engineers, Vol. 99, No. ST2, February 1973, pp. 114-121.
27. "Structural Performance of Hollow Clay Tile Assemblages," University of Texas at Austin, January 1972.
28. "Hollow Clay Tile Structural Research," American Society of Civil Engineers National Structural Engineering Meeting, Baltimore, Maryland, April 1971, 30 pages.
29. "The Development of Structural Design Criteria For Clay Tile Assemblages," *Second International Brick Masonry Conference Proceedings*, The British Ceramic Research Association, England, 1971, pp. 240-246.
30. "Experimental Investigation of Concrete Filled Circular Steel Columns," University of Texas at Austin, January 1967.

RESEARCH REPORTS:

1. Abolmaali,A., Matthys, J.H., Parmer, K., Cory,O. and Spray, "Feasibility of Use of Bamboo as Reinforcement in Concrete Beams", Report-NSF/ST3/05, Submitted to National Science Foundation, 87 pages August 2005.
2. Abolmaali,A,Matthys,J.H., Chan,W.,Nichols,R.,and Seijo,F., "Experimental Investigation of Shear Capacity in Precast Box Culverts" Report-NSF/ST2/05,Submitted to National Science Foundation, 63 pages, August 2005.

3. Abolmaali,A., Matthys,J.H., and Shakya,R., “Water Damage Evaluation of Concrete”, Report – CCI/ST1/05, Submitted to International Chem-Crete, 42 pgs., August 2005.
4. “Structural Investigation of Regular Autoclaved Aerated Concrete Masonry Assemblages,” Submitted to Ytong International, August 1999.
5. “Structural Investigation of Tongue and Groove Autoclaved Aerated Concrete Masonry Assemblages,” Submitted to Ytong International, April 1999, 23 pages.
6. “Structural Investigation of Tongue and Groove Autoclaved Aerated Concrete Masonry Units,” Submitted to Ytong International, November 1998, 12 pages.
7. “Structural Investigation of Interlocking Block Masonry,” Submitted to Ytong International, July 1997, 37 pages.
8. “Masonry Mortar Investigation,” Construction Research Center, UT Arlington, Submitted to Best Masonry, Inc., May 1997, 13 pages.
9. “Mortar Productivity and Flexural Bond Strength,” Submitted to Chemical Lime Co., December 1996, 18 pages.
- 10.. “Mortar Productivity and Flexural Bond Strength,” Construction Research Center, UT Arlington, Submitted to Chemical Lime Co., December 1996, 18 pages.
11. “Water Permeance Investigation,” Construction Research Center, UT Arlington, Submitted to Acme Brick Co., July 1996, 12 pages.
12. “Investigation of Blended Masonry Mortar,” Construction Research Center, UT Arlington, Submitted to Acme Brick Co., April 1996, 10 pages.
13. “Structural Performance of Aerated Autoclaved Concrete Masonry,” Construction Research Center, UT Arlington, Submitted to R. L. Nelson & Associates, January 1996, 20 pages.
14. “Easy Spred vs. PCL Mortar,” Construction Research Center, UT Arlington, Submitted to Chemical Lime Co., December 1995, 8 pages.
15. “Mortar Cement Bond Wrench Evaluations,” Construction Research Center, UT Arlington, Submitted to Chemical Lime Co., December 1995, 7 pages.
16. “Effect of Lime on Compressive Strength,” Construction Research Center, UT Arlington, Submitted to National Lime Association, March 1995, 12 pages.

17. "Mortar Composition Investigation," Construction Research Center, UT Arlington, Submitted to Texas Industries, February 1995, 10 pages.
18. "Mortar Bond Wrench Study," Construction Research Center, UT Arlington, Submitted to National Lime Association, August 1994, 9 pages.
19. "Mortar Cement Evaluation," Construction Research Center, UT Arlington, Submitted to Texas Industries, April 1994, 8 pages.
20. "Performance of Hydrozo Coating on Water Permeance of Masonry Walls," Construction Research Center, UT Arlington, Submitted to Hydrozo, October 1993, 10 pages.
21. "Masonry Mortar Study," Construction Research Center, UT Arlington, Submitted to Texas Industries, May 1993, 14 pages.
22. "TXI Masonry Mortar Research Study," Construction Research Center, UT Arlington, Submitted to Texas Industries, July 1992, 11 pages.
23. "Maintenance Survey of Exterior Wall Systems," Construction Research Center, UT Arlington, Submitted to Council For Masonry Research, February 1992, 11 pages.
24. "Patio Concrete Products Masonry Mortar Study," Construction Research Center, UT Arlington, Submitted to Gibco Industries, Inc., January 1992, 10 pages.
25. "Kaiser Cement Masonry Mortar Study," Final Report, Construction Research Center, UT Arlington, Submitted to Gibco Industries, Inc., January 1992, 10 pages.
26. "Gibco Masonry Mortar Study," Final Report, Construction Research Center, UT Arlington, Submitted to Gibco Industries, Inc., January 1992, 10 pages.
27. "Blue Circle Masonry Mortar Research Study," Final Report, Construction Research Center, UT Arlington, Submitted to Blue Circle, Inc., July 1991, 14 pages.
28. "Masonry Water Permeance Study," Construction Research Center, UT Arlington, Submitted to Interstate Brick Co., May 1991.
29. "The Structural Behavior of a Wood Framing System," Technical Report TR 1-90, Construction Research Center, UT Arlington, August 1990 (with Darryl Corbin).
30. "APG Type N and Type S Mortar Mix," Research Report, Construction Research Center, UT Arlington, Submitted to APG Lime, April 1990, 13 pages.

31. "Clay Brick Tests," Final Report, Construction Research Center, UT Arlington, Submitted to David W. Fowler, April 1989, 5 pages.
32. "Easy Spread Mortar," Interim Research Report, Construction Research Center, UT Arlington, Submitted to National Lime Association, March 1989, 4 pages.
33. "Flexural Bond Strength of Concrete Block Assemblages," Final Report, Construction Research Center, UT Arlington, Submitted to National Lime Association, March 1989, 10 pages.
34. "Stucco Concrete Block Masonry Investigation," Final Report, Construction Research Center, UT Arlington, Submitted to Rockwell Lime Co., March 1989, 8 pages.
35. "Western Lime Type S Masonry Mix Study," Final Report, Construction Research Center, UT Arlington, Submitted to Western Lime and Cement Co., March 1989, 8 pages.
36. "Flexural Bond Strength of Concrete Block Assemblages," Interim Research Report, Construction Research Center, UT Arlington, Submitted to Chemstar, Inc., January 1989, 8 pages.
37. "Conventional Masonry Mortar Investigation on Concrete Block," Interim Research Report, Construction Research Center, UT Arlington, Submitted to National Lime Association, January 1989, 19 pages.
38. "Experimentation and Analysis of Corrugated Fiber-Reinforced Plastic Diaphragm," Final Report, Construction Research Center, UT Arlington, Submitted to Composite Technology, January 1989, 57 pages.
39. "Experimentation and Analysis of Corrugated Fiber-Reinforced Plastic Diaphragms," TR 1-89, Construction Research Center, UT Arlington, December 1988, 250 pages.
40. "Flexural Bond Strength - Solid Versus Cored," Final Report, Construction Research Center, UT Arlington, Submitted to National Lime Association, August 1988, 81 pages.
41. "Conventional Masonry Mortar Investigation," Final Report, Construction Research Center, UT Arlington, Submitted to National Lime Association, August 1988, 35 pages.
42. "Rockwall Type 'N' Masonry Mix Study," Final Report, Construction Research Center, UT Arlington, Submitted to Rockwell Lime Co., June 1988, 13 pages.
43. "Type N PCL Mortar With Air Entrained Lime," Final Report, Construction

- Research Center, UT Arlington, Submitted to United States Gypsum Co., June 1988, 11 pages.
44. "Masonry Cement Mortar Investigation," Final Report, Construction Research Center, UT Arlington, Submitted to Capitol Cement Co., June 1988, 12 pages.
 45. "A Comparative Study in Flexural Tensile Bond Normal to Bed Joints Between Masonry Cement Mortar and Portland Cement Lime Mortars," Technical Report TR 4-88, Construction Research Center, UT Arlington, July 1988, 93 pages (with Weerapong Ngowthammatas).
 46. "Evaluation of Masonry Mortar Properties and Relationships Between Compressive Strength of 2" Cubes and 3" x 6" Cylinders," Technical Report TR 1-88, Construction Research Center, UT Arlington, April 1988, 173 pages.
 47. "Flexural Bond Strength on Low IRA Solid Clay Brick Units," Research Report, Construction Research Center, UT Arlington, Submitted to Chemstar, Inc., January 1988, 15 pages.
 48. "Rockwell Type 'N' Masonry Mix Study," Construction Research Center, UT Arlington, Submitted to Rockwell Lime Co., Manitowoc, Wisconsin, February 1988, 1 page.
 49. "Initial Shrinkage and Moisture Movement of GFRC and FACE Mix Panels," Construction Research Center, UT Arlington, Submitted to GFRC of Texas, January 1988, 12 pages.
 50. "Flexural Bond Strength of Low IRA Clay Brick Units," Construction Research Center, UT Arlington, Submitted to Chemstar Inc., January 1988, 14 pages.
 51. "Bond Wrench Study," Research Report, Construction Research Center, UT Arlington, Submitted to Capitol Cement Co., November 1987, 8 pages.
 52. "Extended Life Mortar," Research Report, Construction Research Center, UT Arlington, Submitted to Everlast Mortar Co., February 1987, 25 pages.
 53. "Ready Mix Mortar," Research Report, Construction Research Center, UT Arlington, Submitted to Addiment, January 1987, 20 pages.
 54. "Type N PCL Mortar With Air Entrained Lime," Interim Report, Construction Research Center, UT Arlington, Submitted to United States Gypsum, Chicago, Illinois, December 1987, 1 page.
 55. "Masonry Cement Mortar Investigation," Interim Report, Construction Research Center, UT Arlington, Submitted to Capitol Cement Co., San Antonio, Texas, December 1987, 1 page.

56. "Conventional Masonry Mortar Investigation," Interim Report, Construction Research Center, UT Arlington, Submitted to National Lime Association, December 1987, 24 pages.
57. "Masonry Mortar Study," Research Report, Construction Research Center, UT Arlington, Submitted to Acme Brick Co., November 1986, 20 pages.
58. "Behavior and Strength of Reinforced Brick Masonry Beams Subjected to Pure Torsion," Research Report TR 2-86, Construction Research Center, UT Arlington, September 1986, 195 pages (with W. Sriboonlue).
59. "Effects of Simulated Acid Rain on Car Panels," Research Report, Construction Research Center, UT Arlington, Submitted to Car Wash Research Foundation, July 1986, 52 pages (with Syed Qasim and H. Huynh).
60. "Third North American Masonry Conference," Final Report, Construction Research Center, UT Arlington, Submitted to National Science Foundation, Grant No. MSM8415422, January 1986, 61 pages.
61. "Extended Plastic Phase Mortar Study," Research Report TR 1-85, Construction Research Center, UT Arlington, Submitted to Ultra Mortar Inc., May 1985, 210 pages (with Alireza Dehghani).
62. "Comparison of Bond Strength - Masonry Cement Mortar vs. Portland Cement Lime Mortar," Construction Research Center, UT Arlington, Submitted to Capitol Cement Co., November 1984, 10 pages.
63. "Fiberglass Reinforced Concrete Panels," Research Report, Construction Research Center, UT Arlington, Submitted to Everman Corporation, July 1984, 20 pages.
64. "Fiberglass Concrete Panel Investigation," Research Report, Construction Research Center, UT Arlington, Submitted to Fibre Bond Corporation, July 1984, 30 pages.
65. "Effects of Lignite in Concrete," Research Report, Construction Research Center, UT Arlington, Submitted to Gifford-Hill, June 1984, 32 pages.
66. "Ultimate Strength Investigation of Reinforced Brick Masonry Beams," Research Report TR 1-84, Construction Research Center, UT Arlington, Submitted to Brick Institute of America, August 1984, 206 pages (with Bunlert Chanprichar).
67. "Precast Concrete Wall Panel Investigation," Research Report Construction Research Center, UT Arlington, Submitted to Speed Fab-Crete, 1982, 65 pages.

68. "Standard Design of Sedimentation Pit for Wash Water Reclamation at Commercial Car Washes," Research Report TR 4-82, Construction Research Center, UT Arlington, Submitted to Car Wash Research Foundation, September 1982, 34 pages (with Syed Qasim, Y. Chou, G. Lamakul, and K. Udomsinrot).
69. "Self Service Car Wash Investigation," Research Report TR 1-82, Construction Research Center, UT Arlington, Submitted to Car Wash Research Foundation, January 1982, 16 pages.
70. "Hand Washing of Auto Paint Surfaces," Research Report TR 3-81, Construction Research Center, University of Texas at Arlington, Submitted to Car Wash Research Foundation, August 1981, 14 pages.
71. "Structural Performance of Hollow Clay Tile Wall Assemblages," Ph.D. Dissertation, UT Austin, January 1972, 408 pages.
72. "Experimental Investigation of Concrete Filled Circular Steel Columns," Master's Thesis, University of Texas at Austin, January 1967, 106 pages.

SCHOLARLY PAPER PRESENTATIONS:

1. "Structural Properties of Autoclaved Aerated Concrete Masonry," ASTM Masonry Symposium, December 1998.
2. "Masonry Designers' Guide Second Edition," Eighth North American Masonry Conference, University of Texas at Austin, Austin, Texas, June 4, 1999.
3. "Masonry Designers' Guide - A Comprehensive Design Tool," American Society of Civil Engineers Structures Congress XIV, April 17, 1996.
4. "USA Masonry Education," Sixth North American Masonry Conference, Drexel University, Philadelphia, Pennsylvania, June 6-9, 1993.
5. "Water Penetration Investigation of Concrete Block Assemblages Using Conventional Masonry Mortars," Fifth North American Masonry Conference, University of Illinois, Urbana-Champaign, Illinois, June 6, 1990.
6. "Education and The Masonry Society," Fifth North American Masonry Conference, University of Illinois, Urbana-Champaign, Illinois, June 5, 1990.
7. "Concrete Masonry Flexural Bond Strength - Prisms Versus Wall Tests," Fifth North American Masonry Conference, University of Illinois, Urbana-Champaign, Illinois, June 5, 1990.

8. “Brick Masonry Flexural Bond Strengths Using Conventional Masonry Mortars,” Fifth Canadian Masonry Symposium, University of British Columbia, Vancouver, British Columbia, June 6, 1989.
9. “Brick Masonry Diagonal Tension (Shear) Test,” Fifth Canadian Masonry Symposium, University of British Columbia, Vancouver, British Columbia, June 6, 1989.
10. “An Investigation of an Extended Plastic Life Mortar,” ASTM Masonry Symposium, New Orleans, Louisiana, December 1986.
11. “Ultimate Strength Investigation of Reinforced Brick Masonry Beams,” Third North American Masonry Conference, Arlington, Texas, June 1985.
12. “Ultimate Strength Theory For Reinforced Brick Masonry,” ASTM Masonry Symposium, Bal Harbour, Florida, December 1983.
13. “Flexural Strength of Brick Masonry With Age,” Fifth International Brick Masonry Conference, Washington, D.C., October 1979.

TECHNICAL LECTURES/PRESENTATIONS:

1. Overview of the Masonry Designer’s Guide, Cleveland Ohio, December 10, 2001.
2. Masonry Construction Practices, Cleveland Ohio, December 10, 2001.
3. Loads and Sample Buildings, Cleveland Ohio, December 10, 2001
4. Design for Flexure, Cleveland Ohio, December 11, 2001.
5. Design of Masonry for Shear, Cleveland Ohio, December 11, 2001.
6. Empirical Design of Masonry, Cleveland Ohio, December 11, 2001.
7. Introduction to Masonry Designers’ Guide, Minneapolis, MN October 22, 2001.
8. Masonry Construction Practices, Minneapolis, MN October 22, 2001.
9. Masonry Design Philosophy & Methodology, Minneapolis MN, October 22, 2001..
10. Movements in Masonry Buildings, Minneapolis, MN, October 22, 2001.
11. Design for Flexure in Masonry, Minneapolis MN, October 22, 2001.

12. Design of Masonry for Shear, Minneapolis MN, October 22, 2001.
13. Empirical Design of Masonry, Minneapolis MN, October 22, 2001.
14. Essentials of Mortar, Chemical Lime Seminar, Arlington, Texas May 2001.
15. Empirical Design of Masonry, Charlotte, NC, Dec. 11, 2000.
16. Design of Masonry for Shear, Charlotte, NC Dec. 11, 2000.
17. Design of Masonry for Flexure , Charlotte, NC, Dec.11,2000.
18. Masonry Design Philosophy & Methodology, Charlotte NC, Dec.11,2000.
19. Masonry Construction Practices, Charlotte, NC, Dec 11,2000.
20. “Essentials of Mortar”, Chemical Lime Seminar, San Antonio Texas October 2000.
21. “Why Teach Masonry/How and Where to Incorporate Masonry Into the Curriculum,” University Professors Masonry Workshop, Illinois Institute of Technology, Chicago, Illinois, March 15, 1999.
22. “Masonry Teaching Resources,” University Professors Masonry Workshop, Illinois Institute of Technology, Chicago, Illinois, March 15, 1999.
23. “Masonry Research,” University Professors Masonry Workshop, Illinois Institute of Technology, Chicago, Illinois, March 16, 1999.
24. “Understanding Masonry Mortars,” World of Concrete, Las Vegas, Nevada, January 19, 1999.
25. “Masonry in the Engineering Curriculum,” International Masonry Institute Research Retreat, August 1998.
26. “Load Bearing Walls,” Eighteenth Annual Masonry Design Seminar, Albany, New York, May 1996.
27. “Shear Walls,” Eighteenth Annual Masonry Design Seminar, Albany, New York, May 1996.
28. “The Masonry Society & *Masonry Designers' Guide*,” Presentation to Structural Engineers Association of Texas, Dallas, Texas, September 1995.
29. “*Masonry Designers' Guide*,” Presentation to Masonry Round Table of Texas, UT San Antonio, Texas, August 17, 1995.

30. “*Masonry Designers' Guide* Two-Day Seminar,” Albany, New York, April 10-11, 1995.
31. “*Masonry Designers' Guide*,” Presentation at the University Professors Masonry Workshop, UT Arlington, March 22, 1995.
32. “Masonry Teaching Resources,” Presentation at the University Professors Masonry Workshop, UT Arlington, March 21, 1995.
33. “Why Teach Masonry/How and Where to Incorporate Masonry Into the Curriculum,” The Masonry Society's University Masonry Professors Workshop, UT Arlington, March 21, 1995.
34. “*Masonry Designers' Guide* Two-Day Seminar,” Houston, Texas, September 26-27, 1994.
35. “*Masonry Designers' Guide*,” Presentation to Masonry Round Table of Texas, Texas A&M University, College Station, Texas, August 20, 1994.
36. “Innovative Practices in Structural Steel,” Presentation at AISC Seminar, Dallas, Texas, April 19, 1994.
37. “*Masonry Designers' Guide* Two-Day Seminar,” Orlando, Florida, April 11-12, 1994.
38. “*Masonry Designers' Guide* - An Overview,” Presentation at The Masonry Society Annual Meeting, Atlanta, Georgia, February 24, 1994.
39. “Mortar/Brick Specifications,” Presentation at the Second Annual Building Professional Institute, UT Arlington, January 10, 1994.
40. “*Masonry Designers' Guide* Two-Day Seminar,” Dallas, Texas, December 13-14, 1993.
41. “*Masonry Designers' Guide* Two-Day Seminar,” Boston, Massachusetts, December 2-3, 1993.
42. “*Masonry Designers' Guide*,” Presentation to CSI, Fort Worth Chapter, Fort Worth, Texas, November 9, 1993.
43. “Mortar Simplified,” Presentation to the Southwest Brick Institute, Dallas, Texas, November 1993.
44. “Masonry Teaching Resources,” Presentation at the University Professors Masonry Workshop, Washington University, St. Louis, Missouri, October 1993.

45. "Structural Masonry," Presentation at the First Annual Building Professional Institute, UT Arlington, July 22, 1993.
46. "A New Masonry Design Tool," Presentation to the Masonry Round Table, Austin, Texas, August 1992.
47. "*Masonry Designers' Guide*," Presentation to the Dallas Chapter of the Masonry Contractors Association, Dallas, Texas, July 14, 1992.
48. "Introduction to Masonry Materials and Teaching Resources," Presentation at the University Professors Masonry Workshop, University of Florida, Gainesville, Florida, October 1992.
49. "How and Where to Incorporate Masonry Into the Curriculum," Presentation at the University Professors Masonry Workshop, Washington State University, Seattle, Washington, October 1991.
50. "Masonry Engineering Properties," Presentation at the University Professors Masonry Workshop, Washington State University, Seattle, Washington, October 1991.
51. "Masonry Teaching Resources," Presentation at the University Professors Masonry Workshop, Washington State University, Seattle, Washington, October 1991.
52. "Roof and Floor System," Presentation at the AISC Practical Steel Design Using LRFD Lecture Series, Oklahoma City, Oklahoma, April 16, 1991.
53. "Overview of the *Masonry Designers' Handbook*," Presentation at The Masonry Society Annual Meeting, Houston, Texas, February 15, 1991.
54. "Roof and Floor System," Presentation at the American Institute of Steel Construction, Practical Steel Design Using LRFD Lecture Series, Dallas, Texas, January 29, 1991.
55. "ASTM Standards," Presentation at the Masonry Research, Design, and Construction Symposium, National Institute of Standards and Technology, U.S. Department of Commerce, Gaithersburg, Maryland, November 1990.
56. "Reinforced Masonry Structural Design," New Structure Design Code and Construction Specifications For Masonry Structures Seminar, Irving, Texas, October 30, 1990.
57. "Unreinforced Masonry Structural Design," New Structure Design Code and Construction Specifications For Masonry Structures Seminar, Irving, Texas, October 30, 1990.

58. "General Analysis and Design Requirements," New Structure Design Code and Construction Specifications For Masonry Structures Seminar, Irving, Texas, October 30, 1990.
59. "Masonry Teaching Resources," Presentation at the University Professors Masonry Workshop, State University of New York, Buffalo, New York, October 25, 1990.
60. "Masonry Engineering Properties," Presentation at the University Professors Masonry Workshop, State University of New York, Buffalo, New York, October 24, 1990.
61. "How and Where to Incorporate Masonry Into the Curriculum," Presentation at the University Professors Masonry Workshop, State University of New York, Buffalo, New York, October 23, 1990.
62. "Special Design of Steel Components-Combined Stresses," Presentation at the American Institute of Steel Construction Allowable Stress Design in Steel Lectures, Oklahoma City, Oklahoma, May 21, 1990.
63. "Basic Design of Steel Compression Components," Presentation at the American Institute of Steel Construction Allowable Stress Design in Steel Lectures, Oklahoma City, Oklahoma, May 21, 1990.
64. "Basic Design of Steel Tension Components," Presentation at the American Institute of Steel Construction Allowable Stress Design in Steel Lectures, Oklahoma City, Oklahoma, May 21, 1990.
65. "New Mortar Provisions for ICBO," Presentation to the Dallas/Fort Worth ICBO Chapters, Arlington, Texas, February 19, 1990.
66. "Masonry Engineering Properties," Presentation at the University Professors Masonry Workshop, University of California at Los Angeles, California, October 27, 1989.
67. "Masonry Teaching Resources," Presentation at the University Professors Masonry Workshop, University of California at Los Angeles, California, October 27, 1989.
68. "How and Where to Incorporate Masonry Into the Curriculum," Presentation at the University Professors Masonry Workshop, University of California at Los Angeles, California, October 26, 1989.
69. "Special Design of Steel Components-Combined Stresses," Presentation at the American Institute of Steel Construction Allowable Stress Design in Steel Lectures, Dallas, Texas, September 11, 1989.

70. "Basic Design of Steel Compression Components," Presentation at the American Institute of Steel Construction Allowable Stress Design in Steel Lectures, Dallas, Texas, September 11, 1989.
71. "Basic Design of Steel Tension Components," Presentation at the American Institute of Steel Construction Allowable Stress Design in Steel Lectures, Dallas, Texas, September 11, 1989.
72. "Masonry Teaching Resources," Presentation at the University Professors Masonry Workshop, University of Toledo, Ohio, April 7, 1989.
73. "Masonry Engineering Material Properties," Presentation at the University Professors Masonry Workshop, University of Toledo, Ohio, April 7, 1989.
74. "How and Where to Incorporate Masonry in the Curriculum," Presentation at the University Professors Masonry Workshop, University of Toledo, Ohio, April 6, 1989.
75. "Masonry Mortar - A Research Update," Presentation to the Construction Specification Institute, Milwaukee Chapter, Milwaukee, Wisconsin, March 27, 1989.
76. "Flexural Bond Strength of Concrete Block Masonry," Presentation to the Masonry Industry Codes Coordinating Committee, Salt Lake City, Utah, January 6, 1989.
77. "Masonry Teaching Resources," Presentation at the University Professors Masonry Workshop, North Carolina State University, Raleigh, North Carolina, November 4, 1988.
78. "Conventional Masonry Mortar Investigation," Presentation at the National Lime Association Convention, Ponte Vedra, Florida, May 12, 1988.
79. "Masonry Courses, Course Outlines, and Teaching Resources," Presentation at the University Professors Masonry Workshop, Boulder, Colorado, April 27, 1988.
80. "New Research in Progress on Water Tight Masonry Walls," Presentation to Mason Contractors Association of America, Nashville, Tennessee, January 15, 1988.
81. "Water Permeance and Bond Strength of Masonry," Presentation to Masonry Industry Codes Coordinating Committee, Salt Lake City, Utah, January 6, 1988.
82. "Conventional Masonry Mortar Research," Presentation to Structural Engineers Forum, San Francisco, California, January 4, 1988.

83. "Flexural Design, Shear Wall Design, and Quality Control," Load Bearing Masonry Design Seminar, Arlington, Texas, November 3, 1983.
84. "Flexural Design, Shear Wall Design, and Quality Control," Load Bearing Masonry Design Seminar, Houston, Texas, November 2, 1983.
85. "Quality Control," Reinforced Structural Masonry Design Seminar, San Antonio, Texas, August 1983.
86. "Shear Wall Design," Reinforced Structural Masonry Design Seminar, San Antonio, Texas, August 1983.
87. "Flexural Design," Reinforced Structural Masonry Design Seminar, San Antonio, Texas, August 15, 1983.
88. "Non-Reinforced and Reinforced Brick Masonry Design," Structural Brick Masonry Design Seminar, Astro World Inn, Houston, Texas, January 1980.
89. "Non-Reinforced and Reinforced Brick Masonry Design," Structural Brick Masonry Design Seminar, UT Arlington, May 1979.
90. "Footing," Design of Reinforced Concrete Structures, U.S. Civil Service Commission, Dallas, Texas, March 1979.
91. "Shear and Torsion," Design of Reinforced Concrete Structures, U.S. Civil Service Commission, Dallas, Texas, March 1979.
92. "Flexure," Design of Reinforced Concrete Structures, U.S. Civil Service Commission, Dallas, Texas, March 1979.
93. "Shear Wall Design," Masonry Design and Construction Seminar, UT Arlington, May 1978.
94. "Wall and Column Design," Masonry Design and Construction Seminar, UT Arlington, May 1978.
95. "Flexural Design," Masonry Design and Construction Seminar, UT Arlington, May 1978.
96. "Testing Procedures," Masonry Design and Construction Seminar, UT Arlington, May 1978.
97. "Building Code Requirements for Masonry," Brick Masonry Seminar, Hilton Inn, Fort Worth, Texas, March 1977.
98. "Masonry Shear Wall Design," Engineered Masonry Construction Seminar, University of Oklahoma, Norman, Oklahoma, February 1977.

99. "Masonry Column Design," Engineered Masonry Construction Seminar, University of Oklahoma, Norman, Oklahoma, February 1977.
100. "Masonry Beam Design," Engineered Masonry Construction Seminar, University of Oklahoma, Norman, Oklahoma, February 1977.
101. "Masonry Courses for Engineering Colleges," Masonry for Education Seminar, Sponsored by Acme Brick Company, Dallas Registry Hotel, Dallas, Texas, September 1976.
102. "Masonry Research," Masonry for Educators, Sponsored by Acme Brick Company, Dallas Registry Hotel, Dallas, Texas, April 1976.
103. "Bending Members," Simplified Steel Design Seminar, Sponsored by the American Iron and Steel Institute, UT Arlington, May 20-21, 1975.
104. "Footing Design," Seminar on the Building Code Requirements for Reinforced Concrete, UT Arlington, March 24-26, 1975.

BOOKS:

1. *Masonry Designers' Guide - Third Edition*, Editor. John H. Matthys, The Masonry Society, February 2001.
2. *Masonry Designers' Guide - Second Edition*, Editor: John H. Matthys, The Masonry Society and the American Concrete Institute, August 1999.
3. *Masonry Designers' Guide*, Editor: John H. Matthys, American Concrete Institute, June 1993.
4. *Masonry: Components To Assemblages*, STP 1063, Editor: John H. Matthys, American Society of Testing and Materials, Philadelphia, Pennsylvania, July 1990.
5. *Proceedings of An International Seminar on Evaluating, Strengthening, and Retrofitting Masonry Buildings*, Editor: John H. Matthys, Construction Research Center, UT Arlington, October 1989
6. *Proceedings of the Third North American Masonry Conference*, Editor: John H. Matthys, Construction Research Center, UT Arlington, June 1985.

PROFESSIONAL ACTIVITIES:

- a. Membership & Offices Held in Professional & Honor Societies:

1. Masonry Standards Joint Committee – MSJC
2. American Society of Civil Engineers - ASCE
3. The Masonry Society – Past President & Vice-President
4. American Society of Testing & Materials – Past C12 ASTM Main Committee Chairman and Vice Chairman
5. Chi Epsilon
6. Tau Beta Pi
7. Tau Sigma Delta
8. Phi Kappa Phi
9. Sigma Xi
10. Phi Beta Delta

b. Active Participation in Professional Societies and Organizations:

1. Member Masonry Standards Joint Committee - Committee drafted a national masonry structural design code (530 Code) for the United States, 1983 to present. Member of the Autoclaved Aerated Concrete Masonry Subcommittee and Reinforcement Subcommittee
2. Chairman ASTM C 12 (Mortar For Unit Masonry) - Responsible for specifications and methods of testing relating to mortars, 1982 to 1987.
3. Vice Chairman ASTM C 12 (Mortar For Unit Masonry) - Main Committee, 1988 - 1991.
4. Member of ASTM C 12.02 (Research) - Responsible for design and conduct of research studies and development of test methods for masonry mortars, 1981 to present.
5. Member of ASTM C 12.03 (Specifications) - Responsible for product specifications, 1975 to present.
6. Member of ASTM C 12.04 (Aggregates) - Responsible for specifications for aggregates for masonry mortars and grouts 1981.
7. Member of ASTM C 12.07 (Laboratory Accreditation) - Responsible for describing the physical and personnel requirements of testing facilities and agencies engaged in inspections and testing, 1981 to 1987.
8. Member of ASTM C 15 (Manufactured Masonry Units) - Responsible for specifications and methods of tests related to concrete and clay masonry units, 1973 to present.
9. Member of ASTM C 15.02 (Brick & Tile) - Responsible for specifications and methods of test for clay units, 1978 to present.
10. Member of ASTM C 15.05 (Assemblages) - Develops standards related to

assemblages, 1983 to present.

11. Member of ASTM C 15.04 (Research) - Responsible for the design and conduct of research studies and test methods for assemblages, 1984 to present.
12. Chairman, of ASTM C 15.08 (Terminology) - Develop terminology standards for masonry units 1983 to present.
13. Member of ASTM C 15.10 (Autoclaved Aerated Concrete Masonry Units) – Develop standards related to AAC units 1996 to present.
14. Technical Advisory Committee (The Masonry Society) - Directs, coordinates, and reviews all technical activities of the Society, 1986 to Present.
15. Steering Committee - The Masonry Society - Fourth North American Masonry Conference, University of California at Los Angeles, California, August 1987.
16. Program Committee member of Dallas ACI Convention - 1980.
17. Chairman, Technical Session I - Practical Field Experience, Dallas ACI Convention, February 1981.
18. North Central Texas Council of Governments - Member of Regional Codes Coordinating Committee, 1979 to 1989.
19. North Central Texas Council of Governments - Energy Subcommittee Chairman, 1982 to 1986.
20. Steering Committee - The Masonry Society - Fifth North American Masonry Conference, University of Illinois, Urbana-Champaign, Illinois, May 1990.
21. Education Subcommittee of The Masonry Society, Liaison Member from Technical Activities Committee and Member, 1987 to 1994.
22. Chairman of ASTM C 12.08 (Terminology) - Responsible for notation and definition of masonry related terms for use by ASTM C 12 and ASTM C 15, 1988 to present.
23. Site Selection Committee - Sixth North American Masonry Conference, Philadelphia, Pennsylvania, February 1991.
24. Chairman, Local Organizing Committee, The Masonry Society Annual Meeting, Houston, Texas, February 1991.
25. Research Technical Committee of The Masonry Society, 1987 to present.

26. Designs Practices Technical Committee of The Masonry Society, 1991 to present.
 27. Board of Directors, The Masonry Society, 1989
 28. Vice President of The Masonry Society, 1992 to 1994.
 29. President of The Masonry Society, 1994 to 1997.
 30. Past President of The Masonry Society, 1997 .
 31. Steering Committee - The Masonry Society - Seventh North American Masonry Conference, University of Notre Dame, South Bend, Indiana, June 1996.
 32. Chairman of The Masonry Society Annual Meeting, San Diego, California, February 25 - 27, 1993.
 33. Steering Committee - The Masonry Society - Eighth North American Masonry Conference, The University of Texas at Austin, Austin, Texas, June 1999.
 34. Masonry Standards Joint Committee- Executive Committee Member; 2001 to present
 35. Steering Committee - The Masonry Society - Ninth North American Masonry Conference, Clemson University, Clemson South Carolina, June 2003.
- c. Professional Engineering Registration
Texas No. 37999
- d. National Conference
- Conference Chairman of the Third North American Masonry Conference held on the UT Arlington campus June 3-6, 1985. One hundred papers from seven countries presented with an attendance of 244. Eighty-four of the refereed papers were published in the conference proceedings.
- e. Symposium
- Symposium Chairman of the ASTM Masonry Symposium *Masonry: Components To Assemblages*, Orlando, Florida, December 1989.

PROFESSIONAL AWARDS:

1. Outstanding Masonry Master of Science Thesis Award for 2010 from The Masonry Society - To MS Student Benchmark Harris and faculty supervisor John H. Matthys, "Investigation of the Lower Bound Compressive and Flexural Strengths of Conventional Concrete and Clay Masonry"
2. Gilbert C. Robinson ASTM Memorial Award from ASTM Committee C15, December 2010 for outstanding research contributions on masonry units and masonry assemblages.
3. J.Ivan Davison ASTM Memorial Award from ASTM Committee C12, December 2009 for outstanding mortar and grout research.
4. Dr. Tseng Huang Endowed Professor in Civil Engineering since 2009
5. Outstanding Masonry Master of Science Thesis Award for 2008 from the Masonry Society – To MS Student S.Aryana and faculty supervisor John H. Matthys, "Compressive Strength of Clay Masonry Prisms"
6. Honorary Member of American Society of Testing and Materials Main Committee C 15 – Presented by Committee C 15 , June 2008.
7. Honorary Member of The Masonry Society (highest societal award) – Presented by TMS in October 2004.
8. Honorary member of American Society of Testing & Materials Main Committee C 12 – Presented by Committee C-12 in December 2003.
9. President's Award - For exceptional contributions to the success of the society. Presented by The Masonry Society to John H. Matthys in February 1998.
10. Twenty-one Year Service Award from Construction Research Advisory Committee, May 1997.
- 11.. Industry Award presented by the Building Officials Association of Texas at the Third Annual Building Professional Institute in January 1995.
12. ASTM "Award of Merit" and title of Fellow (highest individual societal award) of American Society of Testing and Materials, presented to John H. Matthys in June 1993.

13. ASTM “Alan H. Yorkdale” Societal Award for the most outstanding published paper in masonry. Presented to W. Sriboonlue and J.H. Matthys in June 1991.
14. Award of Recognition, Presented by ASTM Committee C 15 in June 1990 to J. H. Matthys for distinguished service and outstanding leadership towards advancing the Symposium on *Masonry: Components To Assemblages*.
15. Award of Appreciation, Presented by ASTM in December 1987 to J. H. Matthys for outstanding service as ASTM Committee C 12 Chairman from 1982 to 1987.

BUILDING PROFESSIONAL INSTITUTE (BPI)

The Construction Research Center at UTA and the Building Officials Association of Texas established in 1992 an annual week long program at UTA of quality education and training courses for the Building Professional which includes Engineers, Architects, Building Designers, Building Officials, Contractor, Municipal Inspectors, Real Estate Inspectors, Plumbers, Fire Protection Personnel, Electricians, Permit Technician, and Environmental Health and Safety Personnel. At the 19th BPI held in May 2010 the expected attendance is 1300 Building Professionals. John Matthys (representing CRC) and Charles Clawson (representing BOAT) organize and direct the nationally known annual CLAWSON-MATTHYS Building Professional Institute.

In 2001 a Building Professional Institute was established in Houston Texas. At the 10th Houston BPI held in January in Houston, 659 Building Professionals attended the 4 day event

UNIVERSITY ADMINISTRATIVE ACTIVITY

The Construction Research Center was established at UTA in 1972.

Dr. Matthys has been the Director of the Construction Research Center at UTA since 1976. The Center has an advisory committee (Construction Research Advisory Committee) that gives advise and counsel to the center’s activities. Matthys handles the day to day operation of the center including industry meetings, scholarships for UTA students, research activities, educational seminars and the Building Professional Institutes at UTA and Houston.

In addition to directing the Construction Research Center, Dr. Matthys handles his normal faculty activities of teaching, research and service in the Civil Engineering Department.

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