

ROCHELLE C. JAFFE
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SENIOR CONSULTANT
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Rochelle C. Jaffe is a consultant to
Building Technology Consultants, Inc.

REGISTRATIONS

- Licensed Architect (**Ar**), Illinois, Michigan, Ohio,
- Licensed Structural Engineer (**SE**), Illinois
- Certified Construction Specifier (**CCS**)
- Certified Special Inspector of Structural Masonry (**CSISM**)



PROFESSIONAL EXPERIENCE

Rochelle Jaffe has specialized in identifying causes of and resolving problems in building facades and masonry construction for 28 years. She provides a unique perspective, because she can assess both architectural and structural aspects of the buildings that she evaluates.

Rochelle Jaffe became affiliated with Building Technology Consultants, PC in 2015 and continues to operate her own consulting firm, Rochelle C. Jaffe Consulting, PC, which she established in 2012. Rochelle Jaffe was previously employed by NTH Consultants, Ltd. in Northville, Michigan, where she was a Senior Vice President. Her prior experience includes employment by Construction Technology Laboratories, Inc. (CTL) in Skokie, Illinois between 1993 and 2001; Raths, Raths & Johnson, Inc. in Willowbrook, Illinois, between 1987 and 1993; and Stuart K. Jacobson & Associates, Ltd. in Skokie, Illinois between 1982 and 1987.

Her professional experience includes:

- **Evaluation and rehabilitation design** of masonry structures, stucco, exterior insulation and finish systems (EIFS), ceramic tile and adhered veneer.
- Assessment of and providing solutions for **building facade problems**.
- **Structural analysis and design** of masonry, concrete (including prestressed and precast), steel, and timber structures, components and connections.
- Field **inspections**, condition **surveys**, and field **testing**.
- Development of structural and architectural specifications, drawings, and other **contract documents**.
- Construction contract administration and observation.
- **Peer review** of new design and repair design.

- Post-construction **assessment of compliance** with contract document and building code requirements.
- Litigation support and expert witness testimony.
- **Lecturer** for the American Concrete Institute and The Masonry Society et al.

EDUCATION

Rochelle Jaffe earned a Bachelor of Science degree in Liberal Arts and Sciences from the University of Illinois at Urbana-Champaign in 1973. Her major was mathematics. In 1983, she earned a Master of Architecture degree, with a major in structures, from the University of Illinois at Chicago.

Since graduation, she has attended numerous seminars and symposia related to masonry design and construction, building codes, building envelopes, roofing, waterproofing, construction specification practices, and construction contract administration.

PROFESSIONAL ACTIVITIES

- Member and **Fellow** of **TMS** (The Masonry Society)
 - Member of **Construction Practices** Committee
 - Contributor to **Masonry Inspection Checklist**
 - Member of **Existing Masonry** Committee
 - Contributor to **Guide for Condition Assessment of Masonry Facades**
 - Past member of **Design Practices** Committee
 - Contributor to **Direct Design Handbook for Masonry Structures TMS 403**
 - Past chairman of **Architectural Practices** Committee
 - Major contributor to **Annotated Guide to Masonry Specifications**
 - Past **Director** on the Board
 - Past **Editor** of the technical Professional Journal
 - Technical reviewer for papers submitted to the **North American Masonry Conferences**
- Member, Masonry Standards Joint Committee (**TMS/ACI/ASCE**)
 - Voting member of **Main Committee**
 - Current Chairman of **Partitions and Empirical Design Subcommittee**
 - Voting member of **General Requirements Subcommittee**
 - Voting member of **Executive Subcommittee**
 - Past chairman of **Form & Style Subcommittee**
 - Past chairman of **Editorial Subcommittee**
 - Past chairman of **Stone Cladding Subcommittee**
 - Contributor to **Building Code Requirements for Masonry Structures TMS 402 and Specification for Masonry Structures TMS 602**, 1992, 1995, 1999, 2002, 2005, 2008, 2011, 2013, and 2016 editions
- Member of American Society for Testing and Material (**ASTM**)
 - Member of Committee C18, Dimension Stone

- Member of American Concrete Institute (**ACI**)
 - Former Member Committee 524 Plastering
 - Past member of Construction Practices Award Committee
- Professional Member of International Code Council (**ICC**)
- Past member, American Society of Civil Engineers (**ASCE**)

PUBLICATIONS

- Jaffe, R. C., et al, **Masonry Designers' Guide**, The Masonry Society, 2013 (7th edition)
- Jaffe, R. C., "**Expect the Unexpected When You Renovate**", Masonry Edge/The Story Pole, Masonry Advisory Council/Masonry Institute of Michigan, 2011, Vol. 6, No. 3, pp. 22-25
- Jaffe, R. C., "**Investigation of the Cause of Collapse During Rehabilitation for Adaptive Reuse**", Proceedings of the Eleventh North American Masonry Conference, The Masonry Society, June 2011
- Jaffe, R. C., et al, **Building Code Requirements for Masonry Structures** (TMS 402/ACI 530/ASCE 5), **Specification for Masonry Structures** (TMS 602/ACI 530.1/ASCE 6), Commentary on Building Code Requirements for Masonry Structures, Commentary on Specification for Masonry Structures, The Masonry Society, American Concrete Institute, and Structural Engineering Institute of the American Society of Civil Engineers, 2008 (committee author), 2011 (committee author) and 2013 (committee author)
- Jaffe, R. C., et al, **Masonry Designers' Guide**, The Masonry Society, 2010 (6th edition)
- Jaffe, R. C., et al **Direct Design Handbook for Masonry Structures**, TMS403-10, The Masonry Society, 2010 (committee author)
- Jaffe, Rochelle C., "**Changes in the 2008 MSJC Code and Specification**", Masonry Edge/The Story Pole, Masonry Advisory Council/Masonry Institute of Michigan, Vol. 4, No. 4, 2009
- Jaffe, Rochelle C., "**The Distinctive Corbel**", The Story Pole, Masonry Institute of Michigan, January/February 2009, Vol. 40, No. 1
- Jaffe, Rochelle C., "**Terra-Cotta Cracking**", TMS Responds, The Masonry Society, Vol. 7, No. 2, August 2008
- Jaffe, Rochelle C., "**Advantages of Conducting a Property Condition Assessment**", Geo-Strata, Geo-Institute, American Society of Civil Engineers, May/June 2008
- Jaffe, Rochelle C., "**Choose a Repair Mortar Based on Compatibility, Not Minimum Compressive Strength**", The Story Pole, Masonry Institute of Michigan, November/December 2007, Vol. 38, No. 6
- Jaffe, R. C., et al, **Masonry Designers' Guide**, The Masonry Society, 2007 (5th edition)
- Smith, Ross J. and Jaffe, Rochelle C., "**Performance of a Design-Build Project**", Proceedings of the Fourth Forensic Engineering Conference, American Society of Civil Engineers, October 2006
- Jaffe, R. C., "**Does Cracking in Architectural Terra-Cotta Mean that there is a Structural Problem?**" The Story Pole, Masonry Institute of Michigan, September/October 2006, Vol. 37, No. 5

- Jaffe, R. C., “**Does the Building Code Require the Use of Relief Angles for Veneer with Block Back-Up?**” The Story Pole, Masonry Institute of Michigan, January/February 2006, Vol. 37, No. 1
- Jaffe, R. C., “**Repointing**” The Story Pole, Masonry Institute of Michigan, September/October 2004, Vol. 35, No. 5
- Jaffe, R. C., “**What’s New in IBC 2003**” The Story Pole, Masonry Institute of Michigan, May/June 2004
- Jaffe, R. C., Masonry Instant Answers, McGraw Hill, 2004
- Beall, C. and Jaffe, R. C., Concrete and Masonry Databook, McGraw Hill, 2003
- Jaffe, R. C. and Rebel, Bill, “**Analysis of Polyvinyl Chloride Through-Wall Flashing**”, Proceedings, Ninth North American Masonry Conference, The Masonry Society, June, 2003.
- Jaffe, R. C., Masonry Basics, The Masonry Society, July, 2002
- Jaffe, R. C., “**Don’t Make Mistakes When Specifying Masonry**”, Magazine of Masonry Construction, Hanley-Wood, June 2002 (part 1) and March 2003 (part 2)
- Jaffe, R. C., “**Understanding Mortar**”, Magazine of Masonry Construction, Hanley-Wood, February, 2001.
- Jaffe, R. C. (committee chair), et al., Annotated Guide to Masonry Specifications, The Masonry Society, November, 2000.
- Jaffe, R. C., Editor, The Professional Journal of the Masonry Society, 1995-1999.
- Jaffe, R. C., et al., Proceedings, More Sticks and Bricks, **The How (and How’d That Happen) of Construction**, The American Bar Association Forum on the Construction Industry, 1999.
- Jaffe, R. C., “**Rehabilitation of Victory Memorial Chapel at St. John’s Military Academy**”, Proceedings, Eighth North American Masonry Conference, The Masonry Society, June 1999.
- Jaffe, R. C., “**Coordinating Architectural and Engineering Details: A Designer’s Checklist**”, Aberdeen’s Magazine of Masonry Construction, July, 1994, Volume 7, Number 7, pp. 296-304.
- Jaffe, R. C., et al, Matthys, J. H., Editor, Masonry Designers’ Guide, The Masonry Society and American Concrete Institute, 1993 (1st edition), 1999 (2nd edition), 2001 (3rd edition), and 2004 (4th edition).
- Jaffe, R. C., et al, **Building Code Requirements for Masonry Structures** (ACI 530/ASCE 5/TMS 402), **Specification for Masonry Structures** (ACI 530.1/ASCE 6/TMS 602, Commentary on Building Code Requirements for Masonry Structures, Commentary on Specification for Masonry Structures, American Concrete Institute, American Society of Civil Engineers, The Masonry Society, 1992, 1995, 1999, 2002, and 2005 (committee author)

PRESENTATIONS

- “**Codes, Standards and Guidelines for Masonry Design and Construction**”, “**Exploring Masonry Materials**”, and “**Masonry Construction Procedures**”, Masonry and Concrete Design and Construction, HalfMoon Education Inc./Foxmoor Continuing Education, Farmington Hills, MI, May 12, 2015
- “**Masonry: Learn to Do It Right**” (**Masonry Materials, Masonry Wall Systems and Details to Control Moisture, Quality Assurance and Construction Considerations**,

- Masonry Assessment and Repair**), University of Wisconsin Dept. of Engineering Professional Development, Madison WI, April 20-21, 2015
- **“Building Quality Weather-Resistant Masonry”** and **“Preventative Maintenance, Problem Diagnosis, and Repair of Modern Masonry”**, Quality Masonry Conference, Nebraska Concrete Masonry Association
 - Omaha, NE March 11, 2015
 - Lincoln, NE March 12, 2015
 - **“Building Quality Weather-Resistant Masonry”** and **“Preventative Maintenance, Problem Diagnosis, and Repair of Modern Masonry”**, World of Concrete, Hanley Wood, Las Vegas, NV, February 5, 2015
 - **“Masonry: Learn to Do It Right” (Design Considerations for Masonry, Controlling Moisture in Masonry, What’s New in MSJC 2011, Masonry Quality Assurance Requirements, Construction Considerations for Masonry, Preventative and Corrective Maintenance of Masonry)**, University of Wisconsin Dept. of Engineering Professional Development
 - Madison, WI April 18-19, 2012
 - Lincoln, NE June 27, 2012
 - Madison, WI April 10-11, 2013
 - Madison, WI May 14-15, 2014
 - **“Building Quality, Water-Resistant Masonry”**, World of Concrete, Hanley Wood Enterprises, Las Vegas, NV, January 23, 2014
 - **“Ten Things Engineers Need to Know About Masonry Specifications”**, International Masonry Institute and the Illinois Structural Masonry Coalition, Addison, IL, January 14, 2013
 - **“Ten Things Engineers Need to Know About Masonry Specifications”**, Structural Engineers Association of Michigan
 - Farmington Hills, MI October 30, 2012
 - Grand Rapids, MI November 30, 2012
 - **“Masonry Specifications – Ten Things Engineers Need to Know”** and **“Observing Masonry Construction”**, Structural Masonry Day, International Masonry Institute, Indianapolis, IN, October 4, 2012
 - **“Masonry Quality Assurance Provisions of IBC 2012 and MSJC 2011”**, presentation at the AISC Structures Congress, Chicago, IL, March 29, 2012
 - **“Is the Masonry Leaking?”**, presentation at the Winter Technical Session of the Great Lakes Chapter of Roofing Consultants Institute, Livonia, MI, March 1, 2012
 - **“Inspection, Special Inspection, and Structural Observations per the 2009 IBC”** and **“Ten Things Engineers Need to Know About Masonry Specifications”**, presentation for the Structural Engineers Association of Ohio, Columbus, OH, September 15, 2011
 - **“Investigation of the Cause of Collapse During Rehabilitation for Adaptive Reuse”**, presentation to the Eleventh North American Masonry Conference, Minneapolis, MN, June 7, 2011
 - **“Evaluation of Existing Masonry”**, presentation for NTH Consultants, Ltd., Northville, MI, May 25, 2011
 - **“Designing Masonry to the 2008 MSJC and 2009 IBC Codes”**, American Concrete Institute and The Masonry Society
 - Northbrook, IL March 31, 2011
 - Roanoke, VA May 12, 2011
 - **“How to Look at Masonry”**, presentation for the National Association of Home Inspectors, Milford, MI, March 3 and December 1, 2009.

- **"Controlling Masonry Cracks and Leaks"**, presentation at the BEC Symposium, sponsored by the Building Enclosure Council of Greater Detroit, Livonia, MI, October 6, 2009.
- **"Structural Masonry Special Inspection"**, Pleasantville, New York, April 18, 2009
- **"Masonry Design Considerations"**, **"Masonry Construction Considerations"**, **"Adhered Veneer"**, **"What's New in 2008 MSJC"**, Madison, WI, January 22, 2009.
- **"Masonry Instant Answers"** and **"2008 MSJC Special Inspection and Testing"**, presentation for the University of Minnesota College of Continuing Education, St. Paul, MN, November 19, 2008.
- **"Masonry Construction Considerations"**, presentation for the Building Officials Conference of North East Ohio, Richmond Heights, Ohio, April 16, 2008.
- **"Design and Construction of Masonry Walls for Performance"**, presentation at the *Masonry Design and Construction: How to Avoid and Solve Masonry Problems* seminar sponsored by the University of Wisconsin at Madison, January 24, 2006, February 5, 2007, January 31, 2008.
- **"Masonry Detailing"**, sponsored by the Texas Masonry Council, Ft. Worth, TX, August 10, 2007.
- **"Demystifying Masonry Specifications: How to write Clear, Concise, Complete, and Correct Requirements"**, presentation at the *Masonry Design and Construction Fundamental Series* presented by the University of Minnesota, St. Paul, MN, April 26, 2007.
- **"Materials Testing Seminar: Mortar, Grout, CMU, and Prisms"**, presentation sponsored by the International Masonry Institute, Pittsburgh, PA, September 14, 2006.
- **"Special Inspection Requirements of the International Building Code"**, presentation to General Motors Worldwide Facilities Group, Pontiac, Michigan June 20, 2006.
- **"Masonry Certification Seminar, Session I"**, sponsored by the Kentuckiana Masonry Institute, Inc., Louisville, KY, October 27, 2005.
- **"Inspection of Masonry Construction"**, sponsored by the New York City School Construction Authority, New York, NY, September 19, 2005
- **"How to Improve Architect/Contractor Communication"**, sponsored by the Texas Masonry Council, Austin, TX, August 19, 2005.
- **"Masonry Design and Detailing"**, sponsored by the New York City School Construction Authority, New York, NY, July 26, 2005.
- **"Methodology for Selecting a Masonry System"** and **"Latest Developments in Masonry Codes and Standards"**, presentations at the *Masonry Design and Construction: How to Avoid and Solve Masonry Problems* seminar sponsored by the University of Wisconsin at Madison, January 25, 2005.
- **"Inspections, Special Inspections and Structural Observations of Masonry: Specification and Practice"**, presentations at the *Masonry Design and Construction Fundamental Series* presented by the University of Minnesota, St. Paul, MN, November 10, 2004.
- **"Masonry System Selection Methodology"** and **"Specifying Masonry"**, seminar sponsored by the Blue Ridge Masonry Association, Roanoke, VA, October 14, 2004.
- **"Masonry Quality Assurance: Specifications and Inspection"**, seminar sponsored by the Texas Masonry Council, San Antonio, TX, September 23, 2004.
- **"Masonry Quality Assurance: Specifications and Inspection"**, seminar sponsored by The Masonry Society, Kansas City, MO, May, 2004.
- **"Methodology for Selecting a Masonry System"** and **"Specifying Masonry"**, seminars sponsored by the Carolinas Concrete Masonry Association.

- North Charleston, SC April, 2004
- Columbia, SC April, 2004
- Greenville, SC April, 2004
- Charlotte, NC May, 2004
- Greensboro, NC May, 2004
- Raleigh, NC May, 2004
- **"Introduction to the Masonry Standards Joint Committee's 2002 Building Code Requirements for Masonry Structures (ACI 530/ASCE 5/TMS 402) and Specification for Masonry Structures (ACI 530.1/ASCE 6/TMS 602)"** and **"Masonry Quality Assurance: Specifications and Inspection"**, seminar sponsored by the Ohio Concrete Masonry Association and The Masonry Society, Perrysburg, Ohio, April, 2004.
- **"Designing Masonry Structures with The New Masonry Code,"** seminars sponsored by American Concrete Institute and The Masonry Society.
 - Minneapolis, MN April, 2003
 - Denver, Colorado October, 2002
 - Albuquerque, New Mexico November 2000
 - St. Louis, Missouri September, 2000
 - Indianapolis, Indiana June, 2000
 - Denver, Colorado May, 2000
 - Atlanta, Georgia (twice) December, 1999
 - Detroit, Michigan December, 1999
 - Cleveland, Ohio November, 1999
 - New Brunswick, New Jersey November, 1998
 - Cleveland, Ohio October 1998
 - Pittsburgh, Pennsylvania September, 1998
 - Dallas, Texas October, 1997
 - Williamsburg, Virginia October, 1997
 - Dayton, Ohio May, 1997
 - St. Louis, Missouri March, 1997
- **"How to Design Masonry Structures Based on the Masonry Designers' Guide: A Practical Seminar for Practicing Engineers"**, seminars sponsored by American Concrete Institute and The Masonry Society.
 - Novi (Detroit), Michigan December, 2001
 - Cincinnati, Ohio June, 2000
 - Chicago, Illinois December, 1994
 - Houston, Texas September, 1994
 - Aiken, South Carolina August, 1994
 - Newark, New Jersey April, 1994
 - Atlanta, Georgia November, 1993
 - Chicago, Illinois October, 1993
- **"Masonry Quality Assurance"**, presentation at the Ninth North American Masonry Conference, sponsored by The Masonry Society, Clemson, NC, June, 2003.
- **"Flashing"** and **"Movement Joints"**, presentations at Masonry Showcase, sponsored by Mason Contractors Association of America, Orlando, FL, March, 2003.
- **"Specifying Masonry"**, presentation at the Federal Officials Seminar, sponsored by the Masonry Industry Council, Washington, DC, November, 2002.

- **"Inspection of Masonry Construction"** and **"Methodology for Selecting a Masonry System"**, presentations at the *Selecting, Designing, and Constructing the Right Masonry System: A Masonry Seminar* sponsored by the Masonry Institute of Iowa, Des Moines, Iowa, March, 2002.
- **"Inspection of Masonry Construction"** and **"Methodology for Selecting a Masonry System"**, presentations at the *Masonry Design and Construction: How to Avoid and Solve Masonry Problems* seminar sponsored by the University of Wisconsin at Madison, January 2002, January 2003, and January 2004.
- **"Specifying Masonry"**, presentation at the annual meeting of The Masonry Society, St. Louis, Missouri, November, 2001
- **"Inspection of Masonry Construction"**, presentation at the *Masonry Design and Construction: How to Avoid and Solve Masonry Problems* seminar sponsored by the University of Wisconsin at Madison, January, 2001 and January, 2000.
- **"The Role of Specifications and Inspection in a Masonry Quality Assurance Program"**, presentation in *Masonry Design and Construction Fundamentals* seminar series at the University of Minnesota at Minneapolis, January, 2001.
- **"What's New in the 1999 Masonry Standards Joint Committee Code and Specification"**, presentation to the Construction Specification Institute in Dayton, Ohio, sponsored by the Tri-State Masonry Institute, January, 2000.
- **"Masonry Basics: How Bricks and Blocks Stack Up to Support and Enclose our Buildings"**, presentation at *More Bricks and Sticks* seminars sponsored by The American Bar Association Forum on The Construction Industry, Seattle, September 1999, and Philadelphia, October 1999.
- **"Controlling Cracks in Concrete Paving"** and **"Controlling Cracks in Masonry"**, presentations sponsored by Cement and Concrete Products Industry of Hawaii, Honolulu, Hawaii, June, 1999.
- **"Rehabilitation of Victory Memorial Chapel at St. John's Military Academy"**, presentation at the Eighth North American Masonry Conference, Austin, Texas, June, 1999.
- **"Coordinating Architectural and Engineering Details,"** presentation at M-Day, sponsored by the Masonry Institute of Michigan, October, 1998.
- **"Comparing the 1995 and 1998 Masonry Standards Joint Committee Codes"**, presentation at Construction Specification Institute, Milwaukee, Wisconsin, March, 1998.
- **"How to specify mortar"**, presentation at annual meeting of The Masonry Society, February, 1998.
- **"Structural Design of Masonry for Non-Engineers"**, Masonry Institute of Dayton, December 11, 1996.
- **"Masonry Detailing to Prevent Water Leakage"**, Masonry Institute of Dayton, March 6, 1996.
- **"How and When to Perform Material Testing"**, Art Institute's Historic Preservation Class, February 6, 1996.
- **"The Engineer's Role in Litigating Construction Claims"**, presentation for National Lien and Bond Claim Systems, Chicago, Illinois, October, 1995.
- **"Name that Wall!"** presentation at the Masonry Society Annual Meeting, Las Vegas, NV, February, 1995.
- **"What's New in the 1995 MSJC Code and Specifications"**, presentation at CTL Masonry Seminar, Chicago, Illinois, November, 1994.

- **"Proper Masonry Detailing,"** presentation at CTL Masonry Seminar, Skokie, Illinois, March, 1994.
- **"Why Coordinate Architectural and Engineering Details?"**, presentation at The Masonry Society Annual Meeting, Atlanta, Georgia, February, 1994.
- **"Masonry Evaluations by CTL"**, presentation to PCA Masonry Course attendees, Skokie, Illinois, January, 1994.
- **"Introduction to the Masonry Designers' Guide"**, specialty clinic at the Sixth North American Masonry Conference, Philadelphia, Pennsylvania, June, 1993.
- **"Design Examples for The Masonry Handbook"**, presentation at The Masonry Society Annual Meeting, Houston, Texas, February, 1991.

EXPERT TESTIMONY

Rochelle Jaffe has served as an expert witness on several cases involving construction and/or design defects, with a particular emphasis on the trowel trades and building envelope performance. Her expert testimony experience includes depositions, trial, and arbitration. She has participated in several alternate dispute resolution proceedings, such as mediations, to help communicate complex technical issues in simple terms.

AWARDS

- **Fellow** Membership in The Masonry Society, 2007
- Recipient of The Masonry Society **President's Award**, 2014