

## KENNETH M. LIES, AIA

Senior Principal



### +CONTACT

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Kenneth Lies is a Licensed Architect and Senior Principal at Raths, Raths & Johnson, Inc. where he oversees and consults on projects involving architectural design, material and system applications, building diagnostics, and forensics. His career at RRJ spans 35 years during which time he has been involved in a broad range of projects from investigation, analysis, and rehabilitation of numerous buildings to the performance evaluation and failure of materials and building systems.

He has leading expertise in architectural technology and design, condition survey documentation, water leakage and moisture diagnostics, condensation potential analysis, materials and systems evaluations/testing, and contract document preparation. He consults on peer review, building codes and standards analysis, and design professional standard of care issues. An expert witness, he has provided technical consultation, litigation support, and deposition and trial testimony on numerous matters to clients located throughout the U.S.

Mr. Lies has comprehensive knowledge and experience with building enclosures, cladding materials, and wall systems. Types of materials and systems include windows, curtain walls, waterproofing and air barrier membranes, wall sidings, exterior insulation and finish systems (EIFS), masonry, roofing, flashing, and coatings.

He is a frequent speaker at ASTM International symposiums and industry conferences and an author of technical papers and articles relevant to his areas of expertise.

### ■ EDUCATION

Master of Architecture: Architectural Design  
 University of Illinois at Urbana-Champaign  
 Bachelor of Science in Architectural Studies  
 University of Illinois at Urbana-Champaign

### ■ LICENSES | REGISTRATIONS

Licensed/Registered Architect in Alabama, Alaska, Arizona, Colorado, Delaware, Florida, Georgia, Illinois, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas, Virginia, West Virginia, Wisconsin

National Council of Architectural Registration Boards (NCARB) Certificate Holder

### ■ PROFESSIONAL AFFILIATIONS

American Institute of Architects (AIA)

Association of Licensed Architects (ALA)

ASTM International

Subcommittee E06.55 Exterior Building Wall Systems

Subcommittee E06.58 EIFS

Committee C11 on Gypsum and Related Building Materials and Systems

The Construction Specifications Institute (CSI)

National Institute of Building Sciences (NIBS)

Building Enclosure Council – Chicago (BEC)  
 Treasurer

Building Enclosure Technology and Environment Council (BETEC)



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### ■ PRESENTATIONS | PUBLICATIONS

- "A Perspective on Building Enclosure Consulting and Peer Review," Webinar, American Bar Association, Division 12-Owners & Project Finance, November 9, 2016
- "Thermal Bridging and Moisture Control in Building Enclosures," Association of Licensed Architects, K.M. Lies, S.K. Flock, and R.J. Kudder, Glenview, IL, March 31, 2015
- "Learning the Construction Process From the Experts", American Bar Association Forum on Construction Law, Sticks & Bricks Regional Meeting, Faculty Expert, Baltimore, Maryland, February 27, 2015
- "Building Enclosure - Case Studies from Top to Bottom," CSI Chicago and Northern Illinois and Association of Licensed Architects, Chicago, IL, February 2011
- "Case Study - Coastal Building Restoration," Building Enclosure Council, Chicago, IL, November 2010
- "Considerations for Window Integration," AAMA Southeast Region Spring Meeting, Hilton Head, SC, March 25-26, 2008
- "How Vapor Resistance Properties of Coatings Affect Exterior Wall Moisture Performance," PACE 2006 Conference, G.D. Hall, K.M. Lies, and S.K. Flock, January 29-February 1, 2006
- "Weather Resistant Barrier Performance and Selection for Exterior Walls," Membranes in Wall Systems, BETEC Spring Symposium, K.M. Lies and G.D. Hall, June 10, 2004
- "Ambiguities, Changes and Contradictions in Building Wall Literature," Performance of Exterior Building Walls, ASTM STP 1422, ASTM International, R.J. Kudder, K.M. Lies, and B.A. Faith, 2002
- "EIFS and Water Intrusion," Emerging Construction Defects: Mold, EIFS, Concrete, Plumbing, ADR, sponsored by Mealey Publications, November 30, 2000
- "Window Detailing Considerations for Leakage Prevention," Water Leakage Through Building Facades, ASTM STP 1314, ASTM International, K.M. Lies and B.A. Faith, 1997
- "Comparison of Class PB EIFS Lamina Water Transmission Test Methods," Symposium on EIFS: Materials, Properties and Performance, ASTM STP 1269, Philadelphia, PA, R.J. Kudder and K.M. Lies, 1995
- "Durability and Serviceability of Polymer Based Exterior Insulation and Finish Systems," ASTM Symposium on Development, Use, and Performance of Exterior Insulation and Finish Systems (EIFS), ASTM STP 1187, R.J. Kudder and K.M. Lies, 1995
- "Including ASTM E514 Tests in Field Evaluations of Brick Masonry," ASTM Symposium on Masonry: Design and Construction, Problems and Repair, ASTM STP 1180, K.R. Hoigard, R.J. Kudder and K.M. Lies, 1993
- "Diagnosing Window and Curtain Wall Leaks," ASTM Symposium on Water in Exterior Building Walls: Problems and Solutions, ASTM STP 1107, R.J. Kudder and K.M. Lies, 1991
- "Construction Details Affecting Wall Condensation," Proceedings, BTECC Symposium on Air Infiltration, Ventilation and Moisture Transfer, Fort Worth, TX, R.J. Kudder, K.M. Lies, and K.R. Hoigard, December 1986



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### ■ SEMINARS AND SYMPOSIA

Symposium on Exterior Insulation and Finish Systems (EIFS): Performance, Progress and Innovation, sponsored by ASTM International, October 5-6, 2014

Fundamentals of Arctic Engineering, University of Alaska Anchorage, March 5, 2014

2013 SRA (Sustainable Roofing Alliance) Fall Conference, October 8-11, 2013

Building Science and Technology (BEST3), High Performance Buildings – Combining Field Experience with Innovation, April 2 - 4, 2012

International Code Council, Overview of the Chicago Energy Code, September 30, 2007

Understanding the B151 Seminar, November 16, 2006

ADA Accessibility Guidelines: Introduction, AIA, July 18, 2006

Legal Issues for Illinois Architects, Illinois Institute of Technology, May 24, 2006.

Building Science Forum 2005 (The Science Behind Building Enclosure Design), sponsored by Building Environment and Thermal Envelope Council, October 6-7, 2005

Water in Buildings: Traditional Analysis of Heat and Moisture (Principles 1), University of Illinois - Building Research Council Seminar, April 5, 2005

Membranes in Wall Systems, sponsored by Building Environment and Thermal Envelope Council, Spring Symposium, June 10-11, 2004

Thermal Evaluation, Code Changes & Industry Research, Architectural Testing Seminar, April 3, 2003

Acoustical Evaluation, Ratings & Applications, Architectural Testing Seminar, April 2, 2003

Curtain Wall Mock-up & Field Testing, Architectural Testing Seminar, April 1, 2003

Evaluating Exterior Noise Rating Systems for Buildings, BETEC Symposium, June 14, 2002

Rain Penetration Control, BETEC Symposium, June 13, 2002

Residential Provisions of the Chicago Energy Conservation Code, BOCA, June 5, 2002

Emerging Construction Defects: Mold, EIFS, Concrete, Plumbing, ADR, sponsored by Mealey Publications, November 30, 2000

2nd Annual Conference on Durability and Disaster Mitigation in Wood-frame Housing, sponsored by PATH (the Partnership for Advancing Technology in Housing), November 6-8, 2000

Third Symposium on Exterior Insulation and Finish Systems (EIFS), sponsored by ASTM International, October 12, 1997



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Conference on Building Performance, sponsored by the American Institute of Architects, April 18-19, 1997

Symposium on Water Leakage through Building Facades, sponsored by ASTM International, April 20, 1996

Symposium on Development, Use and Performance of Exterior Insulation and Finish Systems, sponsored by ASTM International, September 21-24, 1992

Conference on Roof Problem Analysis and Roofing Options, sponsored by National Roofing Contractors Association, April 18, 1991

Symposium on Water in Exterior Building Walls: Problems and Solutions, sponsored by ASTM International, October 25-26, 1990

Specifying Windows and Doors, a technical seminar sponsored by American Architectural Manufacturers Association, December 14, 1987

Curtain Wall Design & Performance Seminar, sponsored by Iron League of Chicago, October 16, 1987

Single Ply and Built-up Roofing Systems, University of Wisconsin-Madison, College of Engineering, February 24-25, 1986

Sealant and Glazing Seminar, sponsored by Flat Glass Marketing Association, April 16, 1985