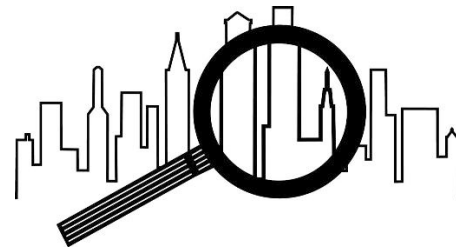


David H. Nicastro, P.E., F.ASTM
Chief Executive Officer



Building Diagnostics
"The Durability Experts"



Career Summary

Mr. Nicastro founded Engineering Diagnostics, Inc. (EDI) in 1994, and Building Diagnostics, Inc. (BDI) in 2008. Currently, BDI and its affiliates have offices in Austin, Texas; Houston, Texas; and Kansas City, Missouri.

Mr. Nicastro is an expert in causation theory, with an emphasis on failure mechanisms of building materials and systems. He analyzes existing buildings and designs remedies.

To pursue original research, Mr. Nicastro created The Durability Lab, a testing center housed at The University of Texas at Austin. With faculty, students, and colleagues from BDI, he studies the durability of building components, identifying factors causing premature failure.

Mr. Nicastro practices in the following disciplines:

- Building Envelopes** Structural, aesthetic, and weatherproofing performance of curtain walls, windows, plazas, balconies, roofs, walls, and below-grade systems.
- Materials Evaluation** Performance evaluation and remedial design for building components and systems.
- Forensic Engineering** Failure investigation and dispute resolution, including expert testimony.
- Access Equipment** Building maintenance and window washing access equipment regulatory compliance, structural evaluation, and design of roof anchors and davits.

Education and Registrations

Pomona College

Bachelor of Arts in Mathematics 1983

The University of Texas at Austin

Master of Science in Engineering 1985

Dept. of Architectural Engineering, Structural Discipline

Registered Professional Engineer

Texas License Number 68172 1990

Professional Memberships

ASTM International (formerly the American Society for Testing and Materials):

Fellow, awarded 2008

Past Chairman, Committee C24 on Building Seals and Sealants

Chairman, C24.01 Terminology Subcommittee

Committee E06 on Performance of Buildings

Committee E58 on Forensic Engineering

American Society of Civil Engineers:

National: Past Chairman, Committee on Dissemination of Failure Information,
Technical Council on Forensic Engineering

Houston: Past Chairman, Materials Engineering Division

Community Activities and Honors

Founding Member, Editorial Board for the Journal of ASTM International

Member 2003-2005, External Advisor Committee, University of Texas at Austin

Department of Civil, Architectural & Environmental Engineering

Academy of Distinguished Alumni, University of Texas at Austin, Inducted 2017

Department of Civil, Architectural and Environmental Engineering

Former Treasurer, Foundation for the Homeless, Inc., Austin, Texas

Boy Scouts of America: Eagle Scout

Tileston Prize in Physics, Pomona College

Publications

BOOKS:

Handbook of Forensic Structural Engineering, 2nd Edition

Chapter 9: "Defects, Deterioration, and Durability"

D. Nicastro, P.E.; McGraw-Hill, New York, 2010

Structural Condition Assessment

Chapter 1: "Defects, Deterioration, and Durability"

D. Nicastro, with Andrea E. Surovek, Ph.D., P.E.; John Wiley, New York, 2005

Failure Mechanisms in Building Construction

D. Nicastro, Editor; ASCE, New York, 1997

Science and Technology of Building Seals, Sealants, Glazing, and Waterproofing

D. Nicastro, Editor, 4th Volume; ASTM STP 1243, 1995

ARTICLES:

Mr. Nicastro has published over 50 articles, including the representative selections listed below.

“Life Safety Testing to Failure”

The Construction Specifier, September 2016

“Four Ways to Fix a Problem”

The Construction Specifier, May 2015

“Durability of Elastomeric Sealants” (with B.A. Feero),

The Construction Specifier, March 2015

“Durability of Water-Resistive Barriers” (with B.A. Feero)

The Construction Specifier, February 2015

“Bearing Pad Durability in Concrete Parking Garages” (with D.E. Eichburg and B.A. Feero),

The Construction Specifier, January 2015

“Ensuring Balcony Durability” (with M. Horan)

The Construction Specifier, November 2013

“Ensuring Durability of Elastomeric Wall Coatings” (with P.D. Gorman)

The Construction Specifier, July 2013

“Understanding Why Doors Leak” (with A.G. Saldanha)

The Construction Specifier, May 2013

“Diagnostic Water Testing”

Roof Consultants Institute, November 2005

“Durability of Horizontal Sealant Joints” (with P.D. Gorman)

ASTM Special Technical Publication No. 1453, 2004

“Structural Defect Discovered During Roof Replacement” (with J.D. McCue)

Journal of Performance of Constructed Facilities, May 2003

“Evaluation and Repair of Post-Tensioned Concrete Structures” (with T. Campion)

The Construction Specifier, November 1999

“Sealing Horizontal Joints Subject to Water and Foot Traffic”

The Construction Specifier, September 1999

“Failures” (39 monthly columns)

The Construction Specifier, 1994 through 1997

“Monitoring and Incentive Payments”

The Construction Specifier, June 1997

“Premature Sealant Failure” (with Joe Solinski)

The Construction Specifier, April 1997

“A Scientific Approach to Water Infiltration Studies”

The Construction Specifier, January 1991

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