DANIEL A. WOJNOWSKI, Ph.D., P.E.

Wojnowski Consulting LLC
14007 S. Bell Rd. #410
Homer Glen, IL 60491

In 2025, Dr. Daniel A. Wojnowski founded Wojnowski Consulting LLC after more than 40 years of work in forensic engineering consulting at Thornton Tomasetti, Engineering Systems Inc., and Packer Engineering. Dr. Wojnowski has experience in forensic investigation related to construction, structural, and material science topics.

His background includes evaluating and analyzing distressed or failed structures, including commercial and residential buildings, bridges, shoring systems, scaffolding, industrial facilities, agricultural plants, and cranes.

Dr. Wojnowski has acted as an expert witness in areas such as structural and metallurgical failures, construction site safety, and premises liability. His background in civil, structural, and metallurgical engineering supports his investigative work related to structural materials and systems. He also contributes as an author and presenter at the ASCE Engineering Forensic Congresses.

Areas of Specialization

Construction Safety/OSHA Compliance
Forensic Structural & Metallurgical Engineering
Agricultural & Industrial: Bins, Silos & Tanks
Construction Incident Investigations
Building Code Evaluation & Compliance
Premise Liability & ADA Accessibility

Education

Ph.D. Metallurgical Engineering, University of Illinois at Chicago, 1994
M.S. Metallurgical Engineering, University of Illinois at Urbana-Champaign, 1983
B.S. Civil Engineering, University of Illinois at Urbana-Champaign, 1981

Registered Professional Engineer

IL (062-043574)
GA (PE053192)
KY (25596)
NY (103868)
AR (17989)
IA (P25632)
LA (32284)
OH (PE.82535)
FL (64389)
IN (PE11600437
MI (6201310644)
WI (33748 – 6)

Certifications

Construction Trainer Course: OSHA#500 Trainer Course in OSHA Standards for Construction
Safety Certification Course: OSHA #3115 – Fall Protection
Safety Certification Course: OSHA #7500 – Introduction to Safety and Health Management
Safety Certification Course: OSHA #510 – Occupational Safety and Health Standards for the Construction Industry
Safety Certification Course: OSHA #7205 – Health Hazard Awareness
Safety Certification Course: OSHA #7505 – Introduction to Accident Investigation
Safety Certification Course: OSHA #7205 – Health Hazard Awareness
Residential Building Inspector (5314639) (Expired)
United Academy – Aerial Boom lift Operator Certification – ID #2078467(Expired)

Training

Safety Training
- Suspended Scaffold User Training – Construction Safety
- Supported Scaffold User Training – Construction Safety
- Department of Labor (OSHA)
  - Confined Space Hazard
  - 10 Hour and 30 Hour Course – Construction Safety

American Society of Civil Engineers
- Structural Condition Assessment of Existing Structures
- Earthquake Induced Ground Motions
- ASCE 7 Wind Engineering Course
- ASCE 7 -10 Wind Load Provisions /Maps and Wind Design Provisions

National Center on Accessibility
- Training Course on "Retrofitting for Accessibility"

Florida Board of Professional Engineers
- Florida Course Code 0009804 - Florida Building Code (2014 – 5th Edition), Chapter 16: Building Structural Design

Professional Affiliations

American Society of Civil Engineers (ASCE)
Structural Engineering Institute of the American Society of Civil Engineers (SEIOA)
National Society of Professional Engineers (NSPE)
Illinois Society of Professional Engineers (ISPE)
American Society of Safety Professionals (ASSP)
International Building Code Council (IBC)

Positions Held

Wojnowski Consulting LLC, Homer Glen, Illinois
Founder and Principal Engineer
2025-Present

Thornton Tomasetti, Chicago, Illinois
Senior Vice President
2017-2025

Engineering Systems Inc., Aurora, Illinois
Principal Engineer
2000-2017
Practice Group Leader/Director
2010-2017
Corporate Treasurer
2010-2011
Director of Corporate Operations
2010
Director of Illinois Operations
2006-2009
Board of Directors-Member
2008-2010
Corporate Vice President
2004-2006
Manager, Civil/Construction Materials Engineering
1996-2000
Manager, Civil/Structural Engineering
1995-1996
Project Manager
1993-1995
Senior Engineer
1991-1993
Staff Engineer
1990-1991
Consultant
1987-1990

Triton College, River Grove, Illinois
Engineering Instructor
1987-1988

Packer Engineering Associates, Inc., Naperville, Illinois
Staff Engineer
1983-1987

Publications

"Forensic Analysis of High-Strength Steel Boom Failure in a Mobile Elevating Work Platform,"
ASCE 10th Congress on Forensic Engineering, Seattle, Washington, November 3, 2024

"Silo Discharge Design and Construction Influences on Wall Pressures,"
ASCE 9th Congress on Forensic Engineering, Denver, CO, November 6, 2022

"Construction Documents' Effects on Field Issues and Accidents,"
ASCE 8th Congress on Forensic Engineering, Austin, TX, November 30, 2019

"Analysis of Design Standards and Recommended Practices for Agricultural Storage Bins,"
D. A. Wojnowski, R. P. Bernhardt, Conference Proceedings of the 7th Congress on Forensic Engineering, Miami, Florida, ASCE, November 2015

"WilTel Technology Curtain Wall Framing Failure Investigation,"
D. A. Wojnowski, C. R. Fischer, Conference Proceedings of the 6th Congress on Forensic Engineering, San Francisco, California, ASCE, October-November 2012

"Structural Roof Failure Due to Snow: The Implications of the Use of Minimum Design Criteria"
D A. Wojnowski, C. R. Fischer, Third International Conference on Forensic Engineering: Diagnosing Failures and Solving Problems, Institute of Civil Engineers, November 2005

"Analysis of a Hybrid Plate Girder Bridge During Erection: Collapse of Tennessee Highway 69 Bridge"
D.A. Wojnowski, A. W. Domel, J. A. Wilkinson, M. T. Kenner, Progress in Structural Engineering and Materials, Vol. 4 No. 1, John Wiley & Sons, LTD. January-March 2002

"Carbide Development in the Temper Zone of a CrMoV Submerged Arc Weldment"
D. Wojnowski, Ph.D. Dissertation, University of Illinois at Chicago, 1994

"Weldment Evaluation of High-Pressure Steam Rotors"
D. Wojnowski, H. Kasapbasioglu, J. E. Indacochea, Journal of Engineering for Industry, ASME, February 1994

"HAZ Tempering Phenomena of Multipass Welds in Bainitic HP Rotor Steels"
D. A. Wojnowski, J. E. Indacochea, International Trends in Welding Science and Technology, International Conference Proceedings, ASM International, 1993

"Fatigue Fracture in Spot Weldments"
D. A. Wojnowski, M.S. Thesis, University of Illinois at Urbana-Champaign, 1983

Technical Presentations

"Silo Discharge Design and Construction Influences on Wall Pressures,"
ASCE 9th Congress on Forensic Engineering, Denver, CO, November 6, 2022

"Construction Documents' Effects on Field Issues and Accidents,"
ASCE 8th Congress on Forensic Engineering, Austin, TX, November 30, 2019

"Analysis of Design Codes for Agricultural Storage Bins,"
7th Congress on Forensic Engineering, Miami, Florida, ASCE, November 17, 2015 (D. A. Wojnowski and R. P. Bernhardt)

"Collapse of Agricultural Grain Bins,"
SEI Day 2014, St. Louis Chapter of Structural Engineering Institute, Masonry Institute of St. Louis, St. Louis, MO, October 3, 2014

"When are Old Buildings in Violation of New Codes?"
Guest Speaker, Western Loss Spring Seminar, Western Loss Association (WLA), Lombard, IL, April 2014

"Construction and Industrial Slips, Trips and Falls,"
Guest Speaker, Construction Site and Construction Safety Class, Department of Civil and Architectural Engineering, Illinois Institute of Technology, Chicago, IL, February 2014

"WilTel Technology Curtain Wall Framing Failure Investigation,"
6th Congress on Forensic Engineering, San Francisco, California, ASCE, November 1, 2012

"Current Construction Issues: 1) Expansive Soils, and 2) Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines"
Seminar at the Colorado Defense Lawyers Association (CDLA) Blockbuster CLE Conference, Denver, Colorado, April 2010 (D. A. Wojnowski and R. A. Granica)

"Structural Roof Failure Due to Snow: The Implications of the Use of Minimum Design Criteria"
Third International Conference on Forensic Engineering: Diagnosing Failures and Solving Problems, Institute of Civil Engineers, London, England, November 2005

"World Trade Center Disaster: Examining Structural and Geotechnical Damages and Perturbation to Our Local Community"
National Science Foundation Earthquake Engineering Research Center, Urbana, IL, November 2001

"Winter Property Damage"
Northern Illinois Adjusters Association, January 2001

"Temporary & Permanent Bracing of Structures"
Western Loss Association Fall Meeting, September 1997

"Keeping a Building Watertight"
ESI Marketing Presentation to the Insurance Claims Industry, March 1996

"Fire Damage Evaluation of a Steel Structural Steel Building"
ASM International Materials Week, Chicago, October 1994

"Snow, Wind, Fire: Effects on Structures"
ESI Marketing Presentation to the Insurance Claims Industry, February 1993

"HAZ Tempering Phenomena of Multipass Welds in Bainitic HP Rotor Steels"
International Trends in Welding Science and Technology Conference, Gatlinburg, Tennessee, June 1992

"Interactions with Structural Materials"
Engineering Systems, Inc. Sponsored Seminar, 1991
Western Loss Association Winter Meeting, February 18, 1994

"Weldability of CrMoV Rotor Steels"
72nd Steelmaking Conference, Chicago, Illinois, April 4, 1989

"Welding of CrMoV Rotor Steels"
Welding and Repair Technology for Fossil Power Plants, Electric Power Research Institute, Williamsburg, Virginia, March 23, 1994

Awards

City of New York: Certificate of Appreciation 9-11-2001
State of Illinois House of Representatives: Recognition of volunteer work at Ground Zero