

## **RESUME(S):**

### **David A. Doddridge**

Mr. Doddridge is a building and construction professional with over 30 years of hands-on experience in the construction and building inspection industries. Mr. Doddridge has testified in numerous trials and depositions for both plaintiff and defense attorneys. He has been qualified as an expert in construction and personal injury cases in courtrooms from New York City to Connecticut to Boston and has authored and presented numerous Continuing Legal Education courses, coast to coast.

David has been specifically trained in residential and commercial building codes, construction site safety, residential and commercial building envelopes, slip, trip and fall accidents and building inspections. His decades of practical experience provides him with the unique ability to translate written code words into three-dimensional, real world interpretations making him extremely valuable as a forensic expert.

Since the late 1970's, Mr. Doddridge has been involved in the residential and commercial construction and building inspection industries. He also has extensive experience in prefabricated buildings and ran separate building manufacturing, roofing and drywall companies as subsidiaries of his construction company.

When David was only two years old, his mother painted a picture of him "helping" his father perform construction work by hammering a nail into a scrap piece of lumber. As this painting depicts, David has building and construction in his blood and he has never chosen a profession other than that related directly to the building and construction industries.

Using the partnership and knowledge of his father, combined with his natural instincts and abilities as a building professional and various college-level certifications as his primary education, David has worked side by side with his dad in the family building inspection and construction businesses since the late 1970's. As Mr. Doddridge says, "you cannot learn in college what you can learn from your father". With that as his mantra, David is a firm believer that there is no better educational resource than hands-on experience.

In 2014 Mr. Doddridge was hired as the lead expert by one of New York City's most prominent personal injury law firms to act as the plaintiff's safety expert in a construction accident case that returned a verdict in favor of the plaintiff in the amount of \$62 million, the highest amount ever awarded to a single plaintiff in the history of Queens, New York.

### **Professional Experience:**

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##### **D. A. Doddridge and Associates, Inc. 1996-Present**

- Expert consulting firm providing on-site inspections, forensic report writing, expert witness testimony and forensic research for personal injury cases relating to code compliance, worker/job site injuries, construction defects and construction disputes.
- Provide on-site inspections and report writing.

##### **Guardian National Building Inspection Company, 1983-1994 & 2009-Present**

- Commercial & residential building inspection company owned by Donald A. Doddridge, responsible for inspecting the condition of commercial, multi-family

and residential properties, building code compliance, estimating and report writing.

- In 2009 the company was resurrected as Guardian National Building Inspection Co. and currently performs Property Condition Assessments under ASTM guidelines on commercial and multi-family buildings from New York City to Boston.

#### **Doddridge Associates, Inc., 1996-Present**

- Construction firm owned and operated by David A. Doddridge involved in mid-to high-end residential construction projects, commercial projects including architecturally designed and specified homes, multi-family condominiums, light commercial buildings, historic restorations, subdivisions, insurance repairs, additions, remodeling, etc.
- Hands-on experience in all phases of construction including the erection of a commercial, steel building used as a gym.
- Construction of modular homes of various sizes and styles as provided by Epoch, Inc. in New Hampshire and Superior Builders of Pennsylvania.

#### **Doddridge Construction, Inc., 1983-1996**

- Fully accountable for all construction phases, from initial counseling through estimating and contract negotiation to certificate of occupancy, including supervision of employees and sub-contractors and responsibility for code conformance, construction site safety, etc.
- Administrative duties included oversight of office administrative work, estimating, contract preparation, job cost tracking, insurance documentation, receivables/payables, cash flow control, bank payments/inspections, etc.
- On-site responsibilities included all phases of hands-on construction including forming and pouring foundations, framing, installation of windows/doors/skylights, roofing/siding, interior construction of flooring, cabinetry, stairways, interior doors, trim, finish carpentry, etc.
- Responsibilities also included hands-on supervision of prefabricated homes purchased from National Building Systems, Habitat Post and Beam, Nickerson Homes.
- Nauset Drywall Co.
  - Responsible for all phases of interior drywall & metal frame construction including estimating, installation, finishing, and job site safety. Work included residential and commercial installations including strip malls, fast food restaurants, multi-family, mixed use residential/retail/commercial buildings, industrial buildings and churches.
- Ridon Roofing and Siding Co.
  - Responsibilities included estimating and supervision of residential and commercial installations of various types of roofing installations.
- Doddridge Building Systems

- Responsible for design, development and implementation of system to prefabricate, precut and panelize single and multi-family homes in a factory environment. Homes were then shipped and erected with a crane on site.

### **Educational Advocacy, 1996-1998**

- Pro Bono and compensated advocacy work for several families of children with disabilities, representing them in cases involving school systems and the legal educational rights of their children.

### **Licensing, Education and Professional Qualifications**

- Licensing:
  - Commercial Construction Supervisor's License
  - One & Two Family Construction Supervisor's License
- Education & Certifications:
  - National Floor Safety Institute, Certified Walkway Auditor Safety Specialist
  - Building Envelope Science Institute, Certified Building Envelope Inspector
  - International Code Council (formerly known as BOCA, ICBO, SBCCI), Certification in Residential Building Codes
    - Note: the I.C.C. is the code organization responsible for authoring model building codes adopted throughout the U.S., including the 2008 revision New York City building code, and the Massachusetts Building Code
  - OSHA, construction site safety certifications from Excellence in Safety
    - OSHA 30 commercial construction safety certification
    - OSHA 10 residential & light commercial construction safety certification
    - Scaffolding certificate
    - Fall protection certificate
    - Introduction to OSHA & OSH Act certificate
    - 29 CFR 1926, Subpart R, steel erection certificate
    - Electrical safety certificate
  - American Institute of Architects, continuing education credits achieved for seminar attendance related to commercial and residential building codes, ADA compliance, construction techniques, building materials, etc.
  - CDW Engineering, completion of Commercial Building Inspection course with primary concentration on Commercial Property Condition Assessments under ASTM guidelines
  - International Association of Certified Home Inspectors
    - HVAC inspection course certificate
    - Roof inspection course certificate
    - Log home inspection course certificate
  - American Petroleum Institute; certified in Service Station Contractor Safety Program through API Worksafe
  - Miscellaneous coursework completed; "Commercial Building Science, Concepts & Practices", "The Art of Building Science", public speaking, creative writing skills, digital photography, construction estimating, real estate licensure, business, marketing, etc.
  - Certified Educational Advocate by The Federation for Children With Special Needs, Boston, Massachusetts

- Presentation/Author of CLE courses;
  - Submittal and approval/accreditation from New York Board of Continuing Legal Education for CLE course entitled “OSHA Construction Safety-Scaffolding”
  - Past faculty member of LawLine presenting online CLE course on OSHA Regulations-Scaffolding.
  - Webinar/CLE instructor through TASA (Technical Advisory Service for Attorneys) and The Expert Institute on OSHA Construction Safety Regulations, Commercial Building Inspections, Slip, Trip & Fall Investigations and Stairway, Ramp and Single Step Accidents.

## **Professional Memberships**

- Building Codes
  - International Code Council (Formerly known as BOCA)
- Construction & General Contracting
  - National Association of Home Builders (residential construction)
- Building Inspections
  - International Association of Certified Home Inspectors
  - Building Envelope Science Institute
  - ASTM Technical Committee D08-Roofing & Waterproofing
- Floor & Walkway Safety
  - National Floor Safety Institute

## **Joseph A. Sage, R.A.**

Mr. Sage is a New York licensed architect who has been practicing architecture in New York City for more than three decades. Mr. Sage graduated with a B.S. in civil engineering with a 4.0 grade average from Worcester Polytechnic Institute and with a Masters of Architecture from the University of Wisconsin, where he also acted as a teaching assistant in structural engineering. Mr. Sage has also conducted seminars in New York City on structural stabilization.

Aside from Mr. Sage’s educational background and teaching experience, he has practiced architecture and engineering in specialized fields such as historic preservation, structural stabilization, building envelopes, structural forensics, shoring & bracing design, underpinning & bracing design, waterproofing, contract administration, mechanical/electrical/plumbing coordination, NYC controlled inspections, Mass-Transit train stations, schools and gymnasiums, churches, hospitals, commercial restaurants and kitchens, residential design-build, theaters, health clinics and commercial retail stores. Mr. Sage has also owned and operated his own construction company.

During his military career from 1972 through 1975, Mr. Sage acted as a construction draftsman/designer and an M60 machine gunner. Receiving advanced individual training in the United States Army, Mr. Sage

also acted as an illustrator with top secret clearance and as a Company Commander's Orderly in the 76th Heavy Combat Engineers division. Mr. Sage was honorably discharged in 1975.

## **HIGHLIGHTS OF EXPERTISE**

Architectural Building Design	Shoring and Bracing Design
Structural Building Design	Underpinning and Foundation Design
Historic Preservation Design	Waterproofing Design
Structural Forensics	Building Contract Administration
NYC Controlled Inspections	House and Building Inspections
Terra Cotta Furniture	Custom Woodwork
Interior Apartment Renovation	Shoring Construction
Design-Build Construction	Mechanical/Electric/Plumbing Coordination

## **BUILDING TYPE EXPERIENCE**

Historic Landmark Buildings	Hospitals
Health/clinics	Building Rehabilitation
New Construction	Residential Housing and Homes
Commercial Stores	Commercial Restaurants and Kitchens
Mass Transit Train Station Improvements	Theater and Church Renovation
New Churches	Fire Houses
Schools	Summer Resorts
Gymnasiums	Swimming Pool Houses
Custom Homes Gazebos and Exterior Decks	

## **Professional Experience**

### **Joseph A. Sage Architect P.C.**

Manhattan and Staten Island, New York

Founding President (2004-Present)

- Manage small professional firm of 2 to 4 employees.
- Perform all aspects of building related architecture, structure and historic preservation professional services for firm including mechanical/electrical/plumbing coordination.
- Personally supervise and manage all projects in firm including, marketing, proposal preparation, client relations, field documentation, field analysis, field measurements, mechanical/electrical/plumbing/landscape consultant coordination, design, drawing preparation, specification preparation, bid document preparation, bidding, bid conferences, contract preparation, shop drawing review, change order preparation, field inspections, field reports, field conditions, NYC Building Department expediting,

Landmark Preservation Commission expediting, building department controlled inspections, substantial completion, and final completions.

- Developed one of a kind underpinning and shoring system for exterior wall restoration and re-building of loose and dangerous conditions.
- Clients include Prince Abbas Abdul Aziz, Saudi Arabian Royal Family; Michael Novogratz, President of Fortress Investment Group; Greek Orthodox Archdiocese of America; Josh Hartnett, Actor; Robert and Richard Baird, Owners of Historical Arts and Castings Inc.; Ralph Gillis, Registered Architect, of 41 5 Owners Condominium; Meg O'Connor, Business Manager of The Women's National Republic Club; Joan Gould, Granddaughter of the David Gould Testamentary Trust; Brian Beirnes, Representative of Marc Ecko Enterprises; David Sonneborne, Fergie's Manager; Coty Sidnam and Eric Gartner, Principals of SPG Architects; Ralph Gillis, Principal of Gillis and Associates Architects, Tim Morton, Project Manager of Clarke Construction Corporation; Jon Fogler, Principal of Taocon Inc., Marc Adami and Steven Johnson, Owners of Adami Johnson Renaissance Restoration Inc., John Jr. Weiss, Cheryl Weiss and Eric Saltzer of Apple Restoration and Waterproofing Inc., Damian Cholewa, Project Manager of L&Z Restoration Inc.; Bartolone Wender Architects and The Dakota Inc., John Lennon's Former Residence, The Dakota.

### **The Sage Group**

Brooklyn and Manhattan, New York

Founding Sole Proprietor (1985-2004)

- Managed small firm of 6 to 8 employees
- Performed all aspects of building related architecture, structure and historic preservation professional services for firm.
- Simultaneously ran construction company as president, Master Tech Construction Corporation, coordinating all aspects of design and contract documents as design arm to design build operation.
- Personally supervised and managed all projects in firm including, marketing, proposal preparation, client relations, field documentation, field analysis, field measurements, consultant coordination, design, drawing preparation, specification preparation, bid document preparation, bidding, bid conferences, contract preparation, shop drawing review, change order preparation, field inspections, field reports, field conditions, NYC Building Department expediting, Landmark Preservation Commission expediting, building department controlled inspections, substantial completion, and final completions.
- Developed several one of a kind shoring, scaffolding and exterior restoration stabilization systems saving considerable money from conventional re-building means and methods. • Clients include Raoul Felder, Esq. of the National Arts Club; Cary Tamarkin Owner of

Tamarkin Co.; Jon Fogler and Steven Lamazor, Owners of Taocon Inc.; Calvin Kiiffner, Principal of Calvin Kiiffner and Associates; Jolly Hotel NL New York City; Church of Jesus Christ of the Latter Day Saints; The Catholic Archdiocese of New York; The Catholic

Archdiocese of Brooklyn; Frank Stella, Sculptor; Donna Karan, Clothing Designer; Gus Van Sant, Director and Producer; Legal Aid Society of Brooklyn; Legal Aid Society of New York; Jacob Dykman, Attorney; Phil Manucci, Former President of Tri-State Scaffolding; Salvatore Manucci, Former President of Hy-Time Construction; Vanguard Construction; Newco Ironworks; Eliou Steel Fabrication; Damo Construction; 4 Universalist Society in the City of New York; The Church of Saint Luke and Saint Matthew, ZZZ Carpentry, Howard M. Haimes, Inc.; Joel Gray, Actor; New York State Department of Substance Abuse; Sing Correctional Facility Maximum Security Prison; Robert Silman, P.E., Principal of Robert Silman and Associates.; Paul Gleicher, R.A. principal of Gleicher Design Group; Dick Boschen, R.A.; MZM Construction Inc.; Peter Tow, R.A.; Brice Marden, Painter; Harrison Ford, Actor.

### **Master Tech Construction Corporation**

Brooklyn, New York

Founding President (1985-1991)

- Managed small construction company of 3 to 4 employees and one partner.
- Performed all aspects of building construction related management including marketing, cost estimating, bidding, material allocation, client relations, subcontracting, scheduling, budget control, construction management, shop drawing preparation, change orders, field supervision, design-build, client relations, expediting, trouble shooting, punch listing, NYC Department of Building permits and sign-offs, and fee collections.
- Specialized in interior renovation, shoring, carpentry, custom exterior doors, and custom millwork.
- Established latest state of the art woodworking and cabinet making shop, producing all wood fabrications and custom moldings including curved wood moldings.
- Operated ornamental terra cotta block salvage and retail business. Custom salvaged terra cotta block furniture produced from salvaged ornamental terra cotta.

### **Thomas H. Otto and Associates, Geotechnical Engineers (1985-1986)**

Englewood, New Jersey

Partner and Principal in Charge of Structural Division

- Performed all aspects of building and foundation related structure and coordination of Architectural restraints.
- Designed, specified and administered shoring engineering, building foundations, building superstructures, and site work structures.
- Projects include Bunnies Store, NYC, underpinning of two hundred feet of adjacent buildings shoring of a seventeen foot deep excavation, providing construction pre-surveys and stabilization of adjacent buildings during pile-driving operations; Monadnock Construction Warehouse, Brooklyn, engineered wood pile and concrete pile cap/grade beam foundation; Union City Shopping Center, N.J., engineered wood pile and concrete

pile cap/grade beam foundation; Monroe, N.Y., Hasidic Community Boys School Addition foundation and superstructure.

**Robert Silman Associates, P.C. (1983-1985)**

Manhattan, New York

Structural Designer and Field Engineer NYC

- Most of Joseph's projects involved working with award-winning architects as both a field and design structural engineer.
- Some of his projects and architect exposures included: The Fusco House, N.J./Robert Stern, conversion of a turn-of-the-century Richardsonian carriage house to a residence; Ellis Island/Beyer, Blinder, Belle, restoration of the main building, railroad ticket office and power house; Carnegie Hall/James Stewart Polshek and Partners, main stage and recital hall renovation; Ralph Lauren Polo Shop/Naomi Leff and Associates, historic landmark building restoration; Kean House, N.J./Edward Knowles, Governor Kean's cousin's residence; Town Hall Theater/The Ehrenkrantz Group, theater renovation; The Seagram's Building/Pasanella and Klein, roof stabilization and repairs; The Golden House, N.J./Alan Chimacoff, new custom residence; DGS Firehouse, N.Y./Eisenman and Robertson, new building; School House and Old Town Hall, Columbus, Indiana/The Liebman Melting Partnership, structural conditions field survey.

**The Ehrenkrantz Group, P.C. (1980-1983)**

Manhattan, New York

- Joseph worked as an architectural technician, designer, historic preservationist and project manager.
- Some of his projects included: CBS Film Editing Library, NYC; MTA Upper Harlem Train Station Improvements, NY; Albany State Capital Building Historic Structures Report, NY; U.S. Navy Combat and Communications Zone Relocatable 500 Bed Hospitals and U.S. Air Force Test Mock-Ups of a Blast Absorbing Structural System.

**EDUCATION**

**Worcester Polytechnic Institute, Worcester, Massachusetts**

Bachelor of Science, Civil Engineering, 1978

- Structural and Geotechnical Emphasis
- Graduated With High Distinction
- Exchange Student and Major Qualifying Project at City University, London, England.

**University of Wisconsin - Milwaukee, Milwaukee, Wisconsin**

Masters of Architecture, 1981

- Teaching Assistant 1978 - 1981, Taught Structural Engineering to Architectural Students

**Assumption College, Worcester, Massachusetts**



- Honorary Alumnae due to graduating from Assumption Preparatory High School.
- Last class to graduate from Assumption Preparatory prior to closure, Graduated 1970.

## **TEACHING EXPERIENCE**

### **University of Wisconsin - Milwaukee, Milwaukee, Wisconsin**

- Teaching Assistant Structural Engineering, 1978-1981
- Taught After-Hour Extra Classes
- Corrected Tests and Homework for Professor

### **Joseph A. Sage Architect P.C. and The Sage Group**

- In-House Training Programs
- Taught Employees Architecture, Structure, Mechanical, Electrical, Plumbing disciplines so as to work in professional architectural-engineering firm.
- Conducted seminar in structural stabilization in New York City.

## **MILITARY EXPERIENCE**

### **United States Regular Army**

Vietnam Era Veteran (1972-1975).

- During his Army military service Joseph A. Sage was a construction draftsman/designer and M60 Machine Gunner.
- Basic Training - Fort Polk, Louisiana, summer of 1972.
- Advanced Individual Training - Construction Drafting - Fort Belvoir, Virginia, fall of 1972.
- First Assignment - Top Secret Clearance - Illustrator, US Army War College, Carlisle Barracks, Carlisle, Pennsylvania, 1973-1974.
- Second Assignment - Construction Draftsman, M60 Gunner, and Company Commander's Orderly - 76th Heavy Combat Engineers, Ft. Meade, Maryland, 1974-1975.
- Honorable Discharge, 1975.

## **AWARDS**

- Joseph has been awarded a certificate of award from The James F. Lincoln Arc Welding Foundation for Outstanding Achievement in the Advance Progress in Arc Welding Design and Application [1978]
- The Sage Group was awarded an Award of Excellence from the New York State American Institute of Architects [2002]

## **HONOR SOCIETIES**

- Chi Epsilon Honor Fraternity
- Tau Beta Pi Honor Fraternity

## **ASSOCIATIONS**

- The American Association of Cost Engineers
- The American Concrete Institute
- The American Society of Civil Engineers
- The National Trust for Historic Preservation
- The American Society for the Testing of Materials
- The Construction Specifications Institute
- The Free and Accepted Masons of the Grand Lodge of New York
- The Free and Accepted Masons of the Grand Lodge of New Jersey
- American Institute of Architects
- The National Arts Club

## **Victor A. Popp, P.E.**

Mr. Victor A. Popp, P.E., S.E.C.B. has been providing expert technical consulting services based on more than twenty-nine years of broad based mechanical and structural engineering experience. Mr. Popp has developed state-of-the-art custom machinery, structures and systems, and has consulted for a wide variety of clients, applications, and industries. These include the consumer, aerospace, materials, testing, biomedical, automotive and construction markets. He has experience in state-of-the-art design and manufacturing, in both production and R&D environments. He has also performed forensic and failure analysis investigations of material and product failures as well as structural engineering analyses. As Engineering Manager, he was responsible for safety reviews and signoffs of all newly shipped products. He has managed mechanical, electrical and software engineers.

## **EDUCATION:**

- Coursework Ph.D. Biomechanical Engineering Program, from University of Massachusetts
- Master of Science, Administrative Studies, from Boston College
- Certificate in Engineering Management Development; from Worcester Polytechnic Institute (including Product Design and FMEA Class work)
- Masters Level Coursework, CAD, Thermodynamics, Numerical Analysis, from Northeastern University
- Bachelor of Science, Mechanical Engineering, from University of Massachusetts – Lowell

## **PROFESSIONAL EXPERIENCE:**

ENGINEERING CONSULTANT: VPOPP, Inc. Performs forensics and residential structural engineering services. Structural and Mechanical Engineering and Expert witness. Investigate failures of products and systems leading to personal and/or property damage. He is a licensed professional engineer in Massachusetts, New Hampshire, Maine, Rhode Island, Connecticut, New York, and Colorado. He is a licensed Construction Supervisor (Unrestricted Massachusetts for Commercial and Residential), and a licensed Home Inspector (Massachusetts).

ENGINEERING MANAGER CUSTOM DESIGN GROUP: Instron Corporation, Canton, MA.

PRINCIPAL ENGINEER/PROJECT MANAGER: Instron Corporation, Canton, MA.

ADVANCED MANUFACTURING ENGINEER: General Electric Aircraft Instruments, Wilmington, MA.

PROJECT ENGINEER/MACHINE DESIGN ENGINEER: Design Technology, Inc., Billerica, MA.

TRAINED MACHINIST, TECHNICIAN, CERTIFIED BICYCLE MECHANIC: College

### *Major Projects include:*

- *Product Liability Investigations:* Investigate defective consumer products for injury liability lawsuits. Applicable standards review; designing and building test machines and fixtures for accident reconstruction; test method development; laboratory analysis; and reports. Example investigations include:
  - Consumer injury from aquarium top (debilitating laceration from carrying; successfully settled)
  - Consumer injury from sheet metal edge (debilitating laceration during installation; successfully settled)
  - Exploding wood pellet stove accelerant (successfully settled)
  - Snow blower amputation prevention tests (ongoing)
  - Other Consumer Product Failure/Injury Cases: exploding plastic tire rim, exploding pool filter cap; automatic garage door opener; plate glass; air conditioner; can opener
  - Industrial product failures (hydraulics, manufacturing, and structural)

- *Previous Design Team Leadership of Mechanical Test Equipment and Simulators:*
  - *Steering Simulator:* \$9.5 million project; team of 10 engineers; develop and build 5 “Key Life Test” systems simulating road conditions in a temperature/humidity chamber.
  - *Flight Simulator:* \$500K; directed several engineers, concept to completion in 9 months, on time/on budget. Interface with California partner. Several systems installed.
  - *NASA Fatigue System:* \$3.3 million; international team; on-time, on-budget; 4-axis 100,000 lb. test machines. *World’s first* 1500 C radiant bulb heating in high vacuum.
  - *Drive Shaft Tester:* \$1.9 million; 550 Hp/7000 rpm/20,000 inch-lb. torque drive-shaft test system. Computer control of drives, gearboxes, air-cooling, pyrometers, hydraulics, and lubrication.
  - *Fatigue Test System; world’s first 1100 deg. C in Environmental Scanning Electron Microscope;* international team.

*Other Relevant Experience:*

- Structural Engineering for Residential Construction (Including Failure Analysis)
- Product Safety reviews conducted as engineering Manager included product safety signoffs. Our safety checklist included a FMEA risk analysis to cover possible injury scenarios including: probability of injury, likely severity of injury, and three tier mitigation possibilities (i.e., design out, guard out, or warn and train against hazards).

**PROFESSIONAL QUALIFICATIONS, AFFILIATIONS, PRESENTATIONS AND AWARDS:**

REGISTERED PROFESSIONAL ENGINEER: Massachusetts (# 41566)  
 REGISTERED PROFESSIONAL ENGINEER: Colorado (# 42874)  
 REGISTERED PROFESSIONAL ENGINEER: Connecticut (# 26727)  
 REGISTERED PROFESSIONAL ENGINEER: Maine (# 12027)  
 REGISTERED PROFESSIONAL ENGINEER: New Hampshire (# 12946)  
 REGISTERED PROFESSIONAL ENGINEER: New York (# 087359)  
 REGISTERED PROFESSIONAL ENGINEER: Rhode Island (# 9819)  
 LICENSED Construction Supervisor Massachusetts (# 99105)  
 LICENSED Home Inspector Massachusetts (#658)  
 NCEES Registered  
 National Society of Professional Engineers (NSPE)  
 American Society of Mechanical Engineers (ASME)  
 National Academy of Building Inspection Engineers (NABIE)  
 Invited Presenter:  
 University of Fair Haven Graduate School of Forensic Engineering

National Academy of Forensic Engineers (National Conference 2007)

Winner: 1995 Firestone National Design Contest

US Patent Holder: # 5567866

Presentation given at the 1995 National Meeting of the American Society of Materials Testing (Dayton, OH), "High Temperature Biaxial Test Equipment".

Acknowledged for special gripper design in a paper presented at the 1992 International Symposium of Ultra High Temperature Mechanical Testing (Petten N.H.), the Netherlands.  
(Previously) Certified Structural Engineer, Certified Manufacturing Engineer

### **TECHNOLOGIES USED:**

- Environmental: High and Low Temperature; Vacuum, Inert and Hostile Gas
- Transducers and Instrumentation
- Medical Products and Laboratory Equipment
- Hydraulics, Pneumatics, Servo Systems
- Applied Materials and Research
- High Speed Rotational Equipment (up to 12,000 RMP)
- Production: Metal Working; Machining; Welding (Laser, Plasma, MIG, TIG)
- Robotics and Automation; High Speed Production/Packaging Equipment
- Facilities and Home Construction
- Advanced Engineering Software and Tools
  - Computer Aided Design (CAD)
  - Finite Element Analysis (FEA)
  - Failure Effects Modes Analysis (FMEA)

### **PROJECT TYPES:**

- Research and Development
- Consumer Goods
- Project Management
- International Teams and Companies
- Inter and Intra Corporate Projects
- Cross functional Engineering Teams (mechanical, electrical and software)
- "Skunk Works" projects (fast track, dedicated team projects).

**John W. Dymecki, P.E., R.A.**

## **Educational Background:**

Drexel University

Philadelphia, PA.

Engineering BS degrees in;

a) electrical

b) civil/structural design.

University of Hamburg

Hamburg, Germany

Masters Degree in Architecture

Languages: fluent in English and German

## **Professional experience:**

Principal Architect

Leeds Architects & Engineering

Sandwich, MA

- High end residential: design, engineer and build.
- Commercial: design, engineer and build.
- Historic restoration: private residential and public town owned.

Specialty areas of work:

- Structural analysis of all buildings; writing reports of deficiencies and failures. The reports also include recommendations for repair and correction.
- Environmental, Conservation, wetlands engineering.
- Hurricane and wind storm damage analysis.
- Coastal engineering design.
- Wetlands act:
  - a) Vernal ponds.
  - b) Ponds and lake protection.
    - High pollutant loads to lakes
    - Analysis of un-sewered areas with older septic system, as each project demands
    - Residential areas with lawn care activities.
- Develop water shed management programs.
- Churches, structural redesign of steeples.
- Working with local CPC's to obtain funding for local public projects.

European experience:

Principal architect of own practice in Hamburg, Germany.

- Restoration of historic churches: 900 to 1,000 years old.
- The design, engineering and construction of intensive care nursing facilities.

Sandwich, MA. Historic District Committee, architect seat

Teacher at the Cape Cod Community College:

- Solar panel technology, engineering; design and installation of systems.
- Blue print reading.
- Construction cost estimating.
- Mathematics for construction workers.
- Environmental science.
- ICC building codes.

**Licenses:**

- Registered Architect, Massachusetts
- Professional Engineer, Massachusetts
- Construction Supervisor, Massachusetts