

**RESUME OF RONALD B. BAILEY, PE, CIAQP, CIEC****MECHANICAL ENGINEER - BUILDING SCIENTIST - INDUSTRIAL HYGIENIST**

Florida Professional Engineer	PE 20639
Louisiana Professional Engineer	PE0035024
Florida Certified Energy Auditor	T0619
Certified Indoor Air Quality Professional	CIAQP
Florida Licensed Mold Assessor	MRSA228
Florida Licensed Mold Remediator	MRSR239
Certified Indoor Environmental Consultant	CIEC 0704052
Certified Microbial Remediator 2003 thru 2010	CMR 02759

Educational and Mechanical Engineering Experience: 39

EDUCATION

Bachelor of Science in Mechanical Engineering 1972
Rochester Institute of Technology
Rochester, NY

Associate in Science - Engineering Science 1969
SUNY Canton Agriculture and Technical College
Canton, NY

CONTINUING EDUCATION

- Fundamentals of Industrial Hygiene – American Industrial Hygiene Association
- Fundamentals of Air and Hydronic Balancing - Environmental Engineering Consultants
- University of Tulsa/EPA - Course on Orientation to Building Air Quality
- Thermal Storage FPL/ASHRAE Seminar
- Indoor Environment '93 Conference
- HRS Building Air Quality Seminar
- Florida Engineering Society - 21H Responsibility Rules
- EPA Southeastern Regional Conference



- AIHA Florida Regional Conference
- Building Science Corporation - Annual “Summer Camp” for Building Science 1999-2004
- Certified Indoor Environmentalist - Indoor Air Quality Association
- Certified Mold Remediator – Indoor Air Quality Association
- Understanding and Designing Dedicated Outdoor Air Systems – ASHRAE
- Mold Remediation Training – Restoration Consultants

EXPERIENCE

1981 to Present
Bailey Engineering Corporation
Jupiter, Florida

2003- Present	1993-2002	1981-1993
President	Vice President	President

Since 1981 Ron has provided design and consulting services for numerous commercial and industrial clients. Some of the types of services provided have been HVAC system design, plumbing system design, fire sprinkler design, energy studies, equipment evaluations, troubleshooting and redesign of inoperative systems, as well as investigation of existing conditions and other consulting services.

Project types include health care facilities, state/county institutions, schools, churches, commercial/industrial facilities, process facilities, office buildings, hotels/resorts and residential/condo-type facilities.

During the past twelve years of experience, Ron has been involved in troubleshooting failed or improperly operating HVAC systems in commercial, industrial, educational and residential facilities. Ron has provided expert testimony as to the systems' failures and developed the required plan of action to correct system deficiencies. In addition, through a series of commissions, Ron has investigated facilities with contamination and microbial control problems and has been involved in all phases of correction and remediation.

Ron has been successful in designing and overseeing the retrofit of equipment that has dropped relative humidities from 90% down into the 50% ranges.



1976 to 1981
Brabham, DeBay and Associates
West Palm Beach, Florida

Chief Mechanical Engineer
HVAC, Plumbing & Fire Sprinkler Design

As part of a development team, Ron helped develop the Florida Model Energy Efficiency Code for Building Construction. He designed the physical plant for an entire college campus, as well as for a 400-student classroom building and administrative office building.

As the chief mechanical engineer, Ron supervised the design of HVAC, plumbing and fire sprinkler systems for more than 500 million dollars of construction.

1972 to 1976
Adair and Brady, Inc.
West Palm Beach, Florida

Mechanical Design Engineer
HVAC, Plumbing & Fire Sprinkler Design

Designed HVAC and plumbing for two 1200-student junior high schools as well as the major renovation of a high school campus and several school additions. While at Adair and Brady, Ron was exposed to the design of mechanical systems for projects such as high-rise residential towers, office buildings, schools and parking garages. In addition, Ron worked as a member of a survey crew for several development projects.

Publications/Presentations

- Co-author, *Infiltration in Humid Climates: 'The Paston Effect'* NCIAQ May 1994
- Presenter, NCIAQ Conference on IAQ
- Presenter, "Building Connections - Healthy Buildings & Materials," AIA Conference
- Author, *Martin County Courthouse: The Untold Story* April 1997
- Author, *Blackening of Homes Due to Candle Burning* Today's IAQ News February 1997
- Presenter, Florida School Design Seminar 1998



- Contributor, IAQ Newsletter by Bailey Engineering Corporation 1999 to Present
- Co-author, *“Existing Technology Used in New Ways,”* Indoor Environment Connections, July 2010
- Presenter, EPA Southeastern Regional Conference
- Presenter, *“Case Study Martin County Courthouse,”* AIHA Florida Regional Conference
- Presenter, *“IAQ In Humid Climates,”* NADCA Southeastern Conference
- Instructor, HVAC Hygienist Certification, Indoor Air Quality Association
- Presenter, *“Courthouses of Florida,”* Energy Information Administration (EIA) Annual Conference
- Speaker, *“Solving Water Intrusion & Mold Problems in Florida,”* Lorman
- Presenter- *“The Good, The Bad and The Ugly”* What Every ASHRAE Member Should Know About How Documents and Emails Are Used in Litigation- Task Group I, General Legal Education January 2003
- Presenter, *“Mitigating Microbial Growth in Buildings Through HVAC Design: Learning From Failures* ASHRAE January 2003
- Presenter, *“The Affects of Operation and Control of Mechanical Systems on Mold Growth in Hotels,”* ASHRAE 2005
- Presenter, *“Eliminating Stucco Water Penetration,”* Chicago/ASHRAE Winter Meeting January 2006
- Co-Presenter, *“Instrumentation,”* ACCA November 2006
- Presenter, *“Science Perception and Reality”* Southeast Building Conference (SEBC) July 2009



SPECIAL INTERESTS

- Indoor Air Quality Association – Board of Directors (1998-99), Education Committee Chair (1997-99)
- ASHRAE Gulfstream Chapter – Past officer positions, Past Director and local Committee Chair
- ASHRAE (Society level) – Past Committee member on Guidelines Committee for Criteria for Achieving Acceptable Indoor Environments, Member -Research Administration Committee, Past Chair TC1.12- Moisture Management in Buildings, past Chair Environmental Health Committee
- American Society of Plumbing Engineers – Member
- American Industrial Hygiene Association – Member
- Florida Engineering Society – Member
- Fire Code Board of Adjustments and Appeals, Palm Beach County – Member
- Southern Building code Congress – Member
- Association of Energy Engineers – Member, CIAQP Board Member
- Florida Building Commission- Energy Technical Advisory Committee