

RESUME OF HOLLACE S. BAILEY, PE, CIAQP**MECHANICAL ENGINEER - BUILDING SCIENTIST – INDUSTRIAL HYGIENIST**

Florida Professional Engineer	PE 37371
Certified Indoor Air Quality Professional	CIAQP 44
Florida Licensed Mold Assessor	MRSA227
Florida Licensed Mold Remediator	MRSR238

Educational and Mechanical Engineering Experience: 40 years

EDUCATION

Bachelor of Science in Mechanical Engineering Florida Atlantic University, Boca Raton, Florida	1982
Associate in Arts, Engineering Palm Beach Junior College, Lake Worth, Florida	1980
Degree Program Bachelor of Arts Education University of Illinois, Urbana, Illinois	1978

CONTINUING EDUCATION – SELECTED ITEMS

- Hands-On Measurement and Diagnostics: Evaluating the Indoor Environment – Harvard School of Public Health
- The Indoor Environment- Interpreting Data, Implementing Control Strategies, and Communicating Risk – Harvard School of Public Health
- Univ. of Tulsa/EPA – 9th Annual Conference – Indoor Air Pollution
- Univ. of Tulsa/EPA - Course on Orientation to Building Air Quality
- NCIAQ Conference on IAQ
- Univ. of Tulsa/EPA – Building Air Quality: Improving the Indoor Air Condition
- Univ. of Tulsa/EPA – Mold, Mildew & Moisture: “Problem Avoidance in Hot and Humid Climates”
- Thermal Performance of the Exterior Envelopes of Building V Conference-ASHRAE/DOE/BTECC
- Thermal Storage FPL/ASHRAE Seminar
- Building Connections - Healthy Buildings & Materials AIA Conference
- 1st International Symposium on Sick Buildings
- Annual “Summer Camp” for Building Science 1999-2003 - Building Science Corporation
- ALPS 1993 Total Environmental Quality Seminar
- Annual Educational Convention (3 days each) 1997-2003 – Indoor Air Quality Association
- Biological Contamination of Indoor Environments Seminar - Mid Atlantic Environmental Hygiene Resource Center
- UL and Fire Rated Assemblies & the Built Environment – Palm Beach Junior College/ASHRAE
- ASHRAE Seminars for Engineers – Palm Beach Junior College/ASHRAE



EXPERIENCE

1983 to Present
Bailey Engineering Corporation
Palm Beach Gardens, Florida

2003 to Present
Vice-President

1993-2002
President

1987-1993
Vice President

1983-1987
Associate

Since 1983, Hollace has served as Chief Design Engineer and Project Manager to provide design and consulting services for residential, commercial, industrial and governmental clients. Types of services have been mechanical system design, troubleshooting and redesign of inoperative systems, equipment evaluations, energy studies, master planning for mechanical systems, facility renovations and updating, building moisture intrusion, investigations and evaluation and control of indoor air quality concerns.

Project types have included residential multifamily and single family speculative developments, large estates, historical hotel and estate renovations, hotel systems renovations, restaurant facilities throughout the U.S., churches, school renovations and additions, college campuses, and commercial office complexes as well as governmental and industrial facilities.

During the last 20 years, Hollace has been largely involved in troubleshooting failed or improperly operating HVAC systems. Hollace has provided consulting services to assist legal counsel in determining causes and corrective actions needed to correct problems, as well as expert testimony as to system failures. Hollace has directed the investigation and remediation of chemically compromised and microbial contaminated facilities and has been active in all phases of correction and remediation processes.

Hollace has overseen the investigation, design and remediation efforts of over 150 projects that have been proven to maintain proper conditions several years after completion.

1981 to 1983
Brabham, DeBay and Associates
West Palm Beach, Florida

Design Engineer
Energy Analysis

Hollace designed HVAC, plumbing and fire protection systems for mid-rise condominiums, elderly living facilities and the Broward County School Board facility, along with numerous renovation projects for West Palm Beach and Palm Beach County. Other projects included office complexes and new buildings for several college campuses.

Hollace was responsible for the equivalency study comparing the Florida Model Energy Code to the Department of Energy BEPS Standard (Building Energy Performance Standard).

1980 to 1981
Hul's Engineering Service
Jupiter, Florida

Draftsman



PUBLICATIONS/PRESENTATIONS- SELECTED

- Presenter, Environmental Information Association 1998 Conference
- Presenter, IAQA Annual Meeting 1998 & 1999
- Presenter, "Hot Humid Climates and Their Challenges to School Construction," Indoor Environment 1999
- Presenter, Risk Management Seminar for Design Professionals - CNA/Peterson Bernard
- Editor and Contributor, IAQ Newsletter by Bailey Engineering Corporation
- Co-author, *Infiltration in Humid Climates: 'The Paston Effect'*
- Author, *Humidity Control in Humid Climates*
- Instructor, Indoor Environmentalist Certification - Indoor Air Quality Association
- Master Trainer – Indoor Air Quality Association
- Author & Trainer, Palm Beach County's IAQ and HVAC Systems Courses
- Presenter, "UL and Fire Rated Assemblies & the Built Environment," Palm Beach Junior College/ASHRAE
- Presenter, "Building Envelopes and How They Affect Mold Growth in Buildings," ASHRAE January 2003
- Presenter, "Control of Mold and Mildew in Educational and/or Health Care Buildings," ASHRAE June 2003
- Presenter, "Remediation Options: How do You Fix This Problem?" ASHRAE June 2003
- Author, *Fungal Contamination: A Manual for Investigation, Remediation & Control* April 2005
- Presenter, "Lessons Learned From Hurricane Recovery – Developing a Water Damage Restoration Program," ASHRAE January 2006
- Presenter, "Product Labels and MSDS – What They Don't Tell You," IAQA October 2006
- Presenter, "The Building Science of Designing to Prevent Moisture in the Building Materials during Normal Building Operation," IAQ October 2007
- Presenter, "Optimizing IAQ Through Comprehensive Filtration," NADCA March 2008
- Presenter, "Lessons to be Learned From Failed Moisture Management That Resulted in Litigation," AHSRAE June 2008
- Presenter, "Choices of Exterior Products When Planning for Construction of New Hospitals or Additions," KSHE June 2008
- Presenter, "Mold Remediation Standards – Which Ones Really Matter," AHR, January 2009
- Presenter, "Outpatient Center Failures in Moisture Management," ASHRAE June 2009
- Co-Presenter, "Chinese (reactive) Drywall Removal Guidance," August 2009
- Presenter, "Evaporative Coolers...A Swamp in the Desert," ASHRAE June 2010
- Co-author, "Existing Technology Used in New Ways," Indoor Environment Connections, July 2010
- Presenter, "Residential HVAC Contracting," PBACCA October 2010
- Presenter, "What's Hot and What's Not – The Secret Guide to Using Thermal Cameras for Effective Building Investigations," ASHRAE January 2011



INDUSTRY PARTICIPATION-SELECTED

- Indoor Air Quality Association - President (2000 & 2001), 1st Vice-President (1998 & 1999), Research & Technical Committee Chair (1997-99, 01-02) Lifetime member
- ASHRAE Gulfstream Chapter - Secretary (1987-88), Treasurer (1986-87), Past Director and Local Committee Chair
- ASHRAE Gulfstream Chapter - Past Coordinator of Special Seminars
- ASHRAE (Society) – Selected Committee Work History

Member on:

- Criteria for Achieving Acceptable Indoor Environments Committee (GPC-10P)
- President's Task Force for Mold Position Paper (2003)
- Moisture Management in Buildings (TC1.12)
- Integrated Building Design (TC7.1)
- Integrated Building Design Handbook Sub-committee Chair (TC7.1)
- Large Building Air Conditioning Systems-Research Sub-committee (TC9.1)
- Large Building Air Conditioning Systems-Standard 62 Issues (TC9.1)

Corresponding Member on:

- Building Commissioning (TC7.9)
- Testing & Balancing (TC7.7)
- Guideline Committee for Sampling of Airborne Particle Concentrations in Commercial & Residential Buildings (GPC17)
- American Society of Mechanical Engineers – Member, Past Programs Committee, Secretary of Student Section FAU (1981-82), Student Representative Palm Beach Chapter (1980-82)
- American Industrial Hygiene Association – Member
- Chinese Drywall Removal Protocol –development committee, primary researcher and author