

Education

Bachelor of Mechanical Engineering, 1976
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in Alabama, Colorado, the District of Columbia, Florida, Georgia, Indiana, Kentucky, Louisiana, Maryland, Michigan, Mississippi, Missouri, New Mexico, North Carolina, Ohio, South Carolina, Tennessee, Virginia, Washington, and West Virginia
Leadership in Energy and Environmental Design (LEED) Accredited Professional by the USGBC.

Professional Affiliations

Member, National Society of Professional Engineers (NSPE)
American Jail Association (AJA)
Member, American Correctional Association (ACA)
Member, Council on Tall Buildings and Urban Habitat (CTBUH)
Member, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)
Member, National Fire Protection Association (NFPA)
Past Voting Member, Past Voting Member, ASHRAE Technology Council (ASHRAE)
Fellow ASHRAE (ASHRAE)
Past Section Head, Past Section Head, ASHRAE Section 9, Large Building Air Conditioning (ASHRAE)
Past Member, ASHRAE TC 4.1, Heating and Cooling Load Calculation Procedures (ASHRAE)
Past Member, ASHRAE TC 4.7, Energy Calculations (ASHRAE)
Past Chairman, Past Chairman, ASHRAE Handbook Committee (ASHRAE)

Presentations

Seminar, ASHRAE Professional Development Seminar, "Automatic Temperature Controls for Energy/Cost Effectiveness"
Seminar, 2003 ASHRAE Annual Meeting, "Current Load Calculation Technology: Radiant Time Series" Kansas City, Missouri, June, 2003
Seminar, 2004 ASHRAE Winter Meeting, "Radiant Time Series Case Study" Anaheim, California, January, 2004
Seminar, 2002 ASHRAE Annual Meeting, "RTS Method" Honolulu, Hawaii, June, 2002
Seminar, 2001 ASHRAE Winter Meeting, "Cooling Load Methodology Comparison" Atlanta, Georgia, January, 2001
Seminar, 2003 ASHRAE Winter Meeting, "Load Calculations Sensitivity Analysis" Chicago, Illinois, January, 2003

Seminar, 2002 ASHRAE Winter Meeting, "Weather Data Selection, How It Can Impact Typical Design Loads?" Atlantic City, New Jersey, January, 2002

Publications

"Lighting, Equipment, Occupants, A New Way To Calculate Cooling Loads" *ASHRAE Journal*, January 2004, Vol. 46, No. 1



Awards

Annual Meeting, Nashville, Tennessee; The Distinguished Service Award, ASHRAE, 2004

Experience Summary

Mr. Bruning joined Newcomb & Boyd in 1973 while attending the Georgia Institute of Technology; he earned his Bachelor of Mechanical Engineering degree while working full time with the firm. He was named an Associate of the firm in 1978, and became a Partner in 1984. His work has included mechanical engineering, project management and partner-in-charge responsibilities on more than 1,400 projects with the firm.

Education

Bachelor of Electrical Engineering, 1969
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in Alabama, Arizona, California, District of Columbia, Florida, Georgia, Indiana, Kentucky, Louisiana, Maryland, Michigan, Mississippi, New Mexico, New York, North Carolina, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Tennessee, Texas, Virginia, Washington, and West Virginia

Registered Communications Distribution Designer (RCDD)

Leadership in Energy and Environmental Design (LEED) Accredited Professional by the USGBC

Professional Affiliations

Member, American Society for Healthcare Engineering (ASHE)

Member, National Society of Professional Engineers (NSPE)

Member, National Fire Protection Association (NFPA)

Georgia Society of Professional Engineers (GSPE)

Building Industry Consulting Service International (BICSI)

Member, Florida Healthcare Engineering Association (FHEA)

Principal Member, Technical Committee on Electrical Systems for NFPA 99, Standard for Health Care Facilities

Member, HCS Codes and Standards Review Committee for the Health Care Section of the NFPA

Experience Summary

After earning his degree from the Georgia Institute of Technology, Mr. Costley was employed for four years by the Western Electric Company, Defense Activities Division, as a development engineer on roving field assignments with U.S. and allied forces. He joined Newcomb & Boyd in 1973, and his work has included the design of electrical distribution, power, communications, alarm and signaling, and control systems for institutional, commercial, and industrial projects. In 1978, he left the firm to join Bartenfeld Electric Company.

Mr. Costley rejoined Newcomb & Boyd in 1981, becoming an Associate of the firm in 1982, an Associate Partner in 1991, and a Partner in 1995. His experience has included electrical engineering, project management and Partner-In-Charge responsibilities on more than 920 projects.



Education

Master of Science, Mechanical Engineering, 1979
Stanford University, Palo Alto, CA
Bachelor of Mechanical Engineering, 1977
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in California, Georgia, Kentucky, Louisiana, New Jersey, New York, North Carolina, Massachusetts, Michigan, Mississippi, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Texas, and Virginia
Leadership in Energy and Environmental Design (LEED) Accredited Professional by the USGBC
Certified GeoExchange Designer (CGD) by the Association of Energy Engineers/International Ground Source Heat Pump Association

Professional Affiliations

Member, American Correctional Association (ACA)
Member, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)
Member, American Society of Testing Material (ASTM)
Member, International Ground Source Heat Pump Association - IGSHPA
Member, American Association of Airport Executives (AAAE)
Member, The Association of Energy Engineers (AEE)
Member, U.S. Green Building Council (USGBC)
Member, Rotary Club of Atlanta
Past Chairman, ASHRAE TC 5.8, Industrial Ventilation
Past Chairman, ASHRAE TC 9.2, Industrial Air Conditioning

Presentations

Seminar, Labs21, "Commissioning a Marine Wet Lab"
Charleston, South Carolina, October, 2007
AIA Center for Building Performance and Regulations and the AIA Center for Advanced Technologies Facilities Design, "Building Performance: The Architect/Engineer Collaboration" Washington, District of Columbia, April, 1996

Publications

"Biomass Gas" *Georgia Professional Engineer*, July/August 1982
"Education, Experience, Examination and Enforcement" *The Georgia Engineer*, October/November 2004

Awards

Academy of Distinguished Engineering Alumni, Georgia Institute of Technology, 2002

Experience Summary

Following his undergraduate work at the Georgia Institute of Technology, Mr. Dean worked at the National Laboratories at Oak Ridge, Tennessee. He then continued his studies at Stanford University. Upon obtaining his Master of Science degree, he moved to Macon, Georgia, where he was employed by a consulting engineering firm for two years prior to starting his own consulting practice, which operated for four years.



He joined Newcomb & Boyd in 1985, was named an Associate of the firm in 1986, an Associate Partner in 1991, and became a Partner in 1995. During this time he has had mechanical engineering, project management and partner-in-charge responsibilities on more than 850 projects.

Education

Master of Science, Mechanical Engineering, 1986
Georgia Institute of Technology, Atlanta, GA
Bachelor of Mechanical Engineering, 1985
Georgia Institute of Technology, Atlanta, GA
Bachelor of Science, Industrial Management, 1979
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in Alabama, Florida, Illinois, Michigan, Georgia, North Carolina, and Tennessee.
Leadership in Energy and Environmental Design (LEED) Accredited Professional by the USGBC

Professional Affiliations

Member, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)
Member, Society for College and University Planning (SCUP)
Member, American Industrial Hygiene Association (AIHA)
Member, ASHRAE Technical Committee TC 9.10, Laboratory Systems (ASHRAE)
Georgia Biomedical Partnership

Presentations

Seminar, Labs21 Conference, "Hazard Classifications for Laboratories" St. Louis, Missouri, October, 2004
Judge, 38th Annual Lab of the Year Competition, "co-sponsored by R&D Magazine and SEFA", 2004
Seminar, Lab Design Conference, "Energy Recovery Systems for Laboratories" Houston, Texas, March, 2005
Seminar, TurnKey Conference, "Planning and Design of Vivarium Facilities
Architectural / Engineering Design Considerations" Baltimore, Maryland, April, 2006
Seminar, Lab Design Asia Conference, "Designing Safe, Flexible & Energy Efficient Laboratories - MEP Engineer Perspective" Singapore, August, 2006
Seminar, ASHRAE Annual Summer Meeting, "How to Classify Laboratories" Kansas City, Missouri, June, 2003
Seminar, TurnKey Conference, "Is BSL Certification Required or Necessary?" Baltimore, Maryland, April, 2008
Seminar, 24th Annual AHCA Seminar, "University of Miami CEP Story" Orlando, Florida, October, 2008
Seminar, 22nd Annual IDEA Campus Energy Conference, "A Case Study of the University of Miami School of Medicine Central Energy Plant " Durham, North Carolina, February, 2009

Publications

"Classification System Would Improve Lab Design, Engineering" *Laboratory Design*, December 2003, Vol. 8, No. 12
"Key Issues in Vivarium Design" *R&D 2007 Laboratory Design Handbook*, November 2006



Experience Summary

Mr. Dymek joined Newcomb & Boyd in 1988 and was named an Associate of the firm in 1995, an Associate Partner in 2000, and a Partner in 2004. His work with the firm has included mechanical engineering, project management, and partner-in-charge responsibilities on more than 190 projects. Mr. Dymek is currently working on an ASHRAE initiative to develop chemical safety levels for laboratories.

Education

Bachelor of Mechanical Engineering, 1982
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in Georgia,
Alabama, Florida, North Carolina, South Carolina,
Maine, New Hampshire, Delaware, Nevada and
Hawaii

National Council of Examiners for Engineering and
Surveying (NCEES)

Leadership in Energy and Environmental Design (LEED)
Accredited Professional by the USGBC

Professional Affiliations

Member, American Society of Heating, Refrigerating and
Air-Conditioning Engineers, Inc. (ASHRAE)

Member, National Society of Professional Engineers
(NSPE)

Georgia Society of Professional Engineers (GSPE)

Affiliate, American Society of Mechanical Engineers
(ASME)

Member, Rotary Club of Atlanta

Experience Summary

Mr. Howell was employed with a consulting
engineering firm in Atlanta for six years as a
mechanical engineer, where his work included
numerous laboratory and research facilities, and
projects located on college and university campuses.

In 1988 Mr. Howell joined Newcomb & Boyd; he was
named an Associate of the firm in 1991, an Associate
Partner in 2000, and a Partner in 2004. His work
experience has included mechanical engineering,
project management, and partner-in-charge
responsibilities on more than 250 projects.



Education

Bachelor of Mechanical Engineering, 1981
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in Alabama, California, Florida, Georgia, Indiana, Kentucky, Michigan, Mississippi, North Carolina, South Carolina, Tennessee, Virginia, and West Virginia
Leadership in Energy and Environmental Design (LEED) Accredited Professional by the USGBC

Professional Affiliations

Member, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE)
Member, National Society of Professional Engineers (NSPE)
Member, National Fire Protection Association (NFPA)
Associate, American Society for Healthcare Engineering (ASHE)
Georgia Society of Professional Engineers (GSPE)
Member, Florida Healthcare Engineering Association (FHEA)
Georgia Society for Hospital Engineers (GSHE)
U.S. Green Building Council (USGBC)
Secretary, ASHRAE SPC 170 Health Care Ventilation (ASHRAE)
Member, ASHRAE SPC 189.2P Design, Construction, and Operation of High Performance Green Health Care Facilities (ASHRAE)
Member and Past Chairman, ASHRAE TC 9.8, Large Building Air Conditioning Applications (ASHRAE)
Member, ASHRAE TC 9.10, Laboratory Systems (ASHRAE)
Member, ASHRAE TG 5.10, Kitchen Ventilation (ASHRAE)
Member, Health Care Guidelines Revision Committee - Guidelines for Design and Construction of Health Care Facilities
Member, former Georgia AIA/Georgia Power Cooperative Energy Committee

Presentations

Seminar, ASHRAE Triangle Chapter, "How to Ensure a Successful Hospital Renovation Project" Raleigh, North Carolina, 2001
Seminar, American Institute of Architects' National Convention & Expo, "The Commissioning of Smart and High Tech Buildings" Charlotte, North Carolina, 2002
Seminar, 2nd Annual GSHE and GaSHE Fall Seminar, "LEED and Sustainable Design Issues for Water Usage" Cordele, Georgia, October, 2008
Seminar, AHCA 21st Annual Seminar, "Mechanical Revisions to the 2006 AIA Guidelines for Design and

Construction of Hospital and Healthcare Facilities" Orlando, Florida, November, 2005

Seminar, Georgia Tech Research Institute, "Controlling Hazards Through Ventilation" Atlanta, Georgia, 1992

Seminar, American Society for Healthcare Engineers, "How to Ensure a Successful Hospital Renovation Project" Philadelphia, Pennsylvania, 1999

Seminar, 24th Annual AHCA Seminar, "Mechanical Engineering Revisions to the 2010 Guidelines" Orlando, Florida, October, 2008

Seminar & Panel Discussion, 1st Annual GSHE and GaSHE Fall Seminar "Mechanical Revisions to the 2006 AIA Guidelines for Design and Construction of Hospital and Healthcare Facilities" Charlotte, North Carolina, October, 2007

Seminar, The International Symposium on Laboratory Design, "Laboratory Commissioning" College Park, Maryland, July, 2005

Seminar, The International Symposium on Laboratory Design, "Laboratory Ventilation" College Park, Maryland, July, 2005

Publications

"Updated Guidelines for Design and Construction of Hospital and Health Care Facilities" *ASHRAE Journal*, June 2006, Vol. 48, No. 6

"Complying with USP 797: Designing Hospital Pharmacy HVAC Systems" *ASHRAE Journal*, February 2007, Vol. 49, No. 2

Awards

Emory Eye Center and Clinic Addition, Atlanta, GA; First Place Energy Award, ASHRAE, 1985

Inductee, Founding Class, Atlanta, GA; Council of Outstanding Young Engineering Alumni, The College of Engineering, Georgia Institute of Technology, 1995

Experience Summary

Mr. Rousseau joined Newcomb & Boyd immediately upon graduation from the Georgia Institute of Technology as a mechanical engineer. He was named an Associate of the firm in 1986, an Associate Partner in 1991, and a Partner in 1995. During this time, he has had responsibilities on more than 830 projects.



Education

Bachelor of Mechanical Engineering, 1970
Georgia Institute of Technology, Atlanta, GA

Licensure/Certifications

Licensed Professional Engineer (PE) in Alabama, Arizona, Arkansas, Connecticut, Florida, Georgia, Illinois, Iowa, Kentucky, Louisiana, Minnesota, Mississippi, Missouri, North Carolina, South Carolina, Tennessee, Utah, Virginia, West Virginia, and Wisconsin
Leadership in Energy and Environmental Design (LEED) Accredited Professional by the USGBC

Professional Affiliations

Past Member, Former AIA Advisory Board, Center for Advanced Technology Facility Design (AIA)
Member, Metro Atlanta Chamber of Commerce (MACC)
Member, International Code Council (ICC)
Member, American Society for Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)
Member, National Council of Acoustical Consultants (NCAC)
Member, National Society of Professional Engineers (NSPE)
Georgia Society of Professional Engineers (GSPE)
Building Officials and Code Administrators International (BOCAINT)
Audio Engineering Society (AES)
Institute of Noise Control Engineering (INCE)
Allied Member, American Institute of Architects (AIA)
Central Atlanta Progress (CAP)
Southern Building Code Congress International (SBCCI)
Member, Acoustical Society of America (ASA)
Past Chairman, Chairman, ASHRAE TC 2.6, Committee on Sound and Vibration (ASHRAE)
Past Vice-Chairman, GSPE Ethical Practices Committee (GSPE)

Presentations

Seminar, AIA Center for Building Performance and Regulations, and the AIA Center for Advanced Technologies Facilities Design, "Building Performance: The Architect/Engineer Collaboration" Washington, District of Columbia, April, 1996

Publications

"Management: Making the Architect-Engineer Relationship Work" *Architectural Record*, February 1987
"Evaluating Owner's Selection Procedures" *Architectural Record*, March 1992

"Chapter 13-Airports, Airport Subchapter" *Facilities Engineering and Management Handbook: An Integrated Approach*, 2001

Awards

Willis H. Carrier Award, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE), 1976



Experience Summary

Mr. Sessler joined Newcomb & Boyd immediately upon graduation from the Georgia Institute of Technology. He became an Associate of the firm in 1973 and a Partner in 1984. His work with the firm has included responsibilities on more than 2,600 projects.