

**Lee Tapper, PE, CIAQP, LEED, AP  
Director of Engineering, Associate**

As Director of Engineering for Holabird & Root LLC, Mr. Tapper is responsible for the design of mechanical systems for Holabird & Root's projects. He will define the proper environmental conditions, stressing safety, functionality and sustainable design.

Mr. Tapper's experience includes mechanical layout and design, including material and equipment selection for fume containment, heating, air conditioning, district cooling, plumbing and fire protection systems. As a certified indoor air quality professional, Mr. Tapper has vast experience in designing systems that provide superior and sustainable indoor air quality. He has extensive experience in preparing load calculations, mathematical modeling, feasibility studies, cost estimates, energy analysis and construction documents.

Part of the Holabird & Root's sustainable design team, he is Leadership in Energy and Environmental Design (LEED) accredited and recommends building materials and products that minimize destruction of the global environment. Green building design saves the client money in the long term with lower operating costs and energy consumption as well as increased staff productivity.

- Education:** Purdue University  
Bachelor of Science, Mechanical Engineering  
West Lafayette, Indiana
- Accreditation  
& Affiliation:** Registered Professional Engineer, Indiana, 1991  
Minnesota, Wisconsin, Illinois, Iowa, Indiana  
Certified Indoor Air Quality Professional  
Leadership in Energy and Environmental Design (LEED Accredited)  
National Society of Professional Engineers  
Past President of Rochester Section ASHRAE  
American Society of Heating, Refrigeration and Air-Conditioning Engineers  
Member of Rochester Mechanical Licensing Board  
National Fire Protection Association
- Professional Biography:** Holabird & Root LLC (1992–present)  
SFT, Inc. (1991–1992)  
R.R. Donnelley & Sons Company (1986–1991)  
Holmes & Narver (1984–1986)
- Presentations:** “Designing HVAC Systems Beyond the Codes,” ASHRAE Training Seminars, Minneapolis, MN, 2006  
“Everything you Need to Know to Update and Improve Your Theatre’s Mechanical Systems,” League of American Historic Theatres Annual Conference, Kansas City, Missouri, July 2005  
“Sustainable Campus LEEDers”
- IDEA Campus Energy Conference, New Mexico, February 2006
  - Iowa Department of Natural Resources Annual Analysts Workshop, Iowa, February 2004
  - The Association of Physical Plant Administrators National Conference, Washington, D.C., July 2004
  - West Coast American Energy Engineers Conference, Anaheim, California, June 2004

"Get with the Program, LEED Challenges the Mindset of HVAC Designers"

- ASHRAE Minnesota Chapter, April 2006
- Labs21 National Conference, Missouri, October 2004

"Sustainable Institutional Science and Research Facilities," World Energy Engineering Conference, Texas, September 2004

"Integration of Labs into an Energy Efficient Building System," Laboratory Design Review Sponsored by Precision Air, Ohio, March 2004

"Greening A Historic Theatre" (Updating Mechanical Systems), League of Historic American Theaters Annual Conference, Miami, Florida, July 2003

### **Selected Projects:**

#### *University*

- Central College Vermeer Science Center Renovation and Expansion, Pella, Iowa (LEED Silver Certified)
- Grinnell College Conard Environmental Research Area Education Center, Kellog, Iowa (LEED Gold Certified)
- Grinnell College Noyce Science and Mathematics Center Phase II, Grinnell, Iowa (LEED Registered project seeking LEED Silver Certification)
- St. Olaf College New Science Center, Northfield, Minnesota (LEED Registered project seeking LEED Gold Certification)
- Beloit College New Science Facility, Beloit, Wisconsin (LEED Registered project seeking LEED Silver Certification)
- Augsburg College New Science Building, Minneapolis, Minnesota (Owner intends to seek LEED certification, project is currently on hold)
- Central College Psychology Building, Pella, Iowa (Owner intends to seek LEED certification, project is in programming phase)
- Dominican University New Science Building, River Forest, Illinois
- Baldwin Wallace College Natural Science and Mathematics Programs Study, Berea, Ohio
- University of Evansville Koch Center for Science and Engineering, Evansville, Indiana
- Wittenberg University Science Building Renovation and Expansion, Springfield, Ohio
- Wabash College Science and Mathematics Facility, Crawfordsville, Indiana
- University of St. Thomas Frey Science and Engineering Facility, St. Paul, Minnesota
- Purdue University-Calumet Gyte Hall and Annex, Hammond, Indiana

- Winona State University Maxwell Hall Renovation, Winona, Minnesota
- Wisconsin Lutheran College New Science Building, Milwaukee, Wisconsin
- University of Minnesota Tate Hall Needs Assessment, Minneapolis, Minnesota
- University of Minnesota State Department of Health Building Study, Cost Report and Renovation, Minneapolis, Minnesota
- University of Minnesota Tate Experimental Condensed Matter Physics Research Facility, Minneapolis, Minnesota
- Macalester College Olin & Rice Halls of Science Addition and Renovation, St. Paul, Minnesota

#### Corporate/Municipal

- Village of Oak Park Public Works Facilities, Oak Park, Illinois (LEED Registered project seeking Silver Certification)
- Hines Development 231 Martingale Lobby and Exterior Façade, Schaumburg, Illinois
- Rochester International Airport Renovation of Terminal Building and Related Facilities, Rochester, Minnesota-
- USDA Curtainwall and Steam Heating Project, St. Paul, Minnesota
- Rochester Aviation Center Terminal Renovation Master Plan, Rochester, Minnesota
- Faribault State of Minnesota Complex Energy Audits/55 State-Owned Buildings, Faribault, Minnesota
- City of Rochester Public School District 535, Facilities Contract, Rochester, Minnesota
- City of Rochester Mayo Civic Center Expansion, Rochester, Minnesota
- IBM Corporation/Fluor Daniel, Inc. Various Projects, Rochester, Minnesota
- IBM Corporation Building 020 Renovation, Rochester, Minnesota
- Norwest Bank Headquarters Renovation, Rochester, Minnesota

#### Ecclesiastical/Misc.

- The Commonwealth Theatre Company and the Cornucopia Arts Center Fine and Performing Arts Center, Lanesboro, Minnesota
- Resurrection Evangelical Lutheran Church Master Plan, Rochester, Minnesota
- Church of Pax Christi Addition and Renovation, Rochester, Minnesota
- Salvation Army Facilities Master Plan, Rochester, Minnesota
- St. Pius X Catholic Church Renovation and Addition, Rochester, Minnesota