



Phipps Conservatory
Pittsburgh, PA

Phipps Conservatory

Pittsburgh, PA • Current

Recommendations to improve the performance a \$45 million upgrade to this 100 year old Pittsburgh landmark. Collaborating with Professor Fisch, of EGS Plan, Germany, ventilating earth tubes have been incorporated into the construction of the tropical rainforest conservatory and a rainwater harvesting system is being investigated for the production greenhouses .



New addition for special exhibitions



Earth tubes buried under frost line pre-condition the supply air



South Central Regional Office Building
Harrisburg, PA

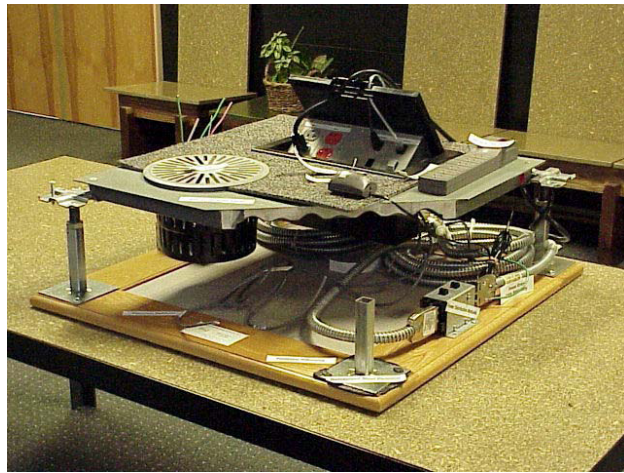
South Central Regional Office Building

Harrisburg, PA • 2000

Consulting services to lead a series of meetings and design charrettes in Harrisburg to review baseline systems and then to establish a set of modifications to improve organizational flexibility, technological adaptability and building performance. The Architect incorporated these system recommendations into the final design of the building, with the result being a new standard for healthy, flexible, adaptable and energy and environmentally effective buildings in the Commonwealth.

Highlights:

Water consumption reductions of more than 20%. Annual energy consumption cost reduction modeled at over 40%. One of 5 projects nationwide selected by the U.S DOE in 2000 to represent the United States at the international Sustainable Building 2000 Convention in Maastricht, The Netherlands. One of the first 12 LEED Certified buildings in the U.S. Award-winning video, "Pennsylvania's First Green Building," airs on PBS. PA Governor's Award for Environmental Excellence in 1998.



Mock up for the raised floor system with air diffuser and modular wiring for flexible space configuration

Stephen R. Lee, AIA, Professor, School of Architecture, Carnegie Mellon University

In his role as a member of the research faculty in the Carnegie Mellon Center for Building Performance & Diagnostics (CBPD), Professor Lee provides consulting services to transform the marketplace for a select list of international, national, regional and local clients.