



An Energy Efficiency Workshop & Exposition

Palm Springs, California

Sustainable Building Design

Workplace Standards –
Air Quality/Ergonomics

June 6, 2002 – 4:00 – 5:30 p.m.

www.energy2000.ee.doe.gov



Session Purpose

- Share information on research guidelines and practices related to indoor environmental quality:
 - Thermal comfort
 - Noise/acoustics
 - Lighting
 - Air quality
 - HVAC systems



Session Format

- Work of NRC/FFC – Ms. Lynda Stanley, NRC

- IEQ & Health: Current Research Findings and the NORA IEQ Research Agenda – Dr. Mark Mendell, NIOSH

- HVAC System Alternatives – Dr. Paul Jensen, NIOSH

- Questions



What is the National Research Council?

- Operating agency of the National Academy of Sciences, National Academy of Engineering, and Institute of Medicine

- NAS established in 1863 to:
 - “investigate, examine, experiment, and report upon any subject of science or art,” whenever called upon by any department of the government.

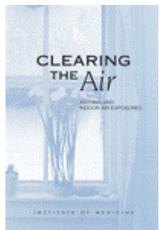
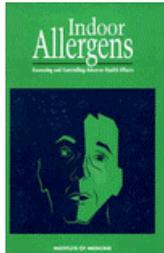


What is the National Research Council? (cont'd)

- ❑ IOM mission: to advance and disseminate scientific knowledge to improve human health
- ❑ NRC mission today: to provide independent, objective advice to government on issues of science and technology
- ❑ 400 studies ongoing at any one time



Studies Related to Indoor Environmental Quality



- Indoor Pollutants (1981)
- Indoor Allergens: Assessing & Controlling Adverse Health Effects (1993)
- Documenting Relationships Between the Workplace Environment & Worker Productivity (1998)
- Risk Assessment of Radon in Drinking Water (1999)
- Health Effects of Exposure to Radon (1999)
- Clearing the Air: Asthma and Indoor Air Exposures (2000)



What is the Federal Facilities Council?

- A cooperative association of federal agencies having interests and responsibilities related to all aspects of federal facility design, construction, procurement, operation, administration, maintenance and management.
 - Established in 1953
 - Sponsored by 23 federal agencies
 - Liaisons with industry organizations



FFC Mission

Identify and advance technologies, processes and management practices that improve the planning, design, construction, maintenance, management, operation, and evaluation of federal facilities.



FFC Mission

FFC fulfills its mission through:

- Networking among agencies and industry liaisons
- Leveraging funding for studies and other information activities.

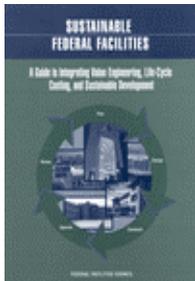


FFC SPONSOR AGENCIES

- Air Force, Office of the Civil Engineer
- Air National Guard
- Army, Assistant Chief of Staff for Installation Management
- Army Corps of Engineers
- Department of Commerce, Office of Real Estate
- Department of Energy
- Department of the Interior
- Department of State
- Department of Veterans Affairs
- Federal Aviation Administration
- Food and Drug Administration
- General Services Administration
- Indian Health Service
- International Broadcasting Bureau
- National Aeronautics and Space Administration
- National Institute of Standards and Technology
- National Institutes of Health
- National Science Foundation
- Naval Facilities Engineering Command
- Pentagon Energy Office
- Smithsonian Institution
- U.S. Coast Guard
- U.S. Postal Service

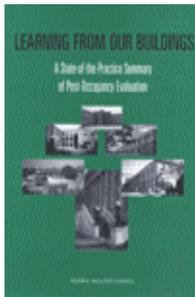


FFC Indoor Environmental Quality Activities



- Changing the Federal Workplace: Integrating People, Buildings and Technologies Conference (1999)

- Sustainable Federal Facilities – implementing principles of Executive Order 13123



- Learning from Our Buildings: A State of the Practice Summary of Post Occupancy Evaluation



FFC 2002 Activity

- Implementing Health Protective Features and Practices in Work Places
 - Hope to build upon a finding of National Occupational Research Agenda



View and Order Our Reports

A screenshot of a Netscape browser window displaying the National Academy Press website. The browser title is 'National Academy Press - Netscape'. The address bar shows 'http://www.nap.edu/'. The website content includes the NAP logo, the text 'Publisher for THE NATIONAL ACADEMIES', and 'nap.edu'. It advertises 'Read over 1,800 books online' and features a search engine section with buttons for 'SEARCH ALL TITLES', 'SEARCH ALL TEXT', and 'BROWSE CATEGORIES'. A promotional banner for 'books new featured special offer' is visible, along with a '20% off online orders' offer. A featured book, 'Crossing the Quality Chasm: A New Health System for the 21st Century', is highlighted with a 'call us 1-888-624-8373' button. The browser's taskbar at the bottom shows the Start button and several open applications, including 'Workspace at Office - Lot...', 'Microsoft PowerPoint - [P...', and 'National Academy Pr...'. The system clock shows 8:31 AM.



Find Out More About Us

A screenshot of a Netscape browser window. The title bar reads 'Federal Facilities Council - Netscape'. The address bar shows the URL 'http://www4.nationalacademies.org/cets/ffc.nsf'. The browser interface includes a menu bar (File, Edit, View, Go, Communicator, Help), a toolbar with icons for Back, Forward, Reload, Home, Search, Netscape, Print, Security, Shop, and Stop, and a status bar at the bottom. The main content area displays the website for the Federal Facilities Council. At the top, there is a navigation bar with links for 'THE NATIONAL ACADEMIES', 'Current Projects', 'Publications', 'Directories', 'Search', 'Site Map', and 'Feedback'. Below this, a sidebar on the left lists various site sections: 'FEDERAL FACILITIES COUNCIL HOME', 'FEDERAL FACILITIES COUNCIL NEWS', 'ABOUT THE FEDERAL FACILITIES COUNCIL', 'FEDERAL FACILITIES COUNCIL CALENDAR', 'FEDERAL FACILITIES COUNCIL PUBLICATIONS', 'FEDERAL FACILITIES COUNCIL STANDING COMMITTEES', 'SUBSCRIBE', 'FEDERAL FACILITIES COUNCIL SITE MAP', and 'LOCAL SEARCH'. The main content area features a large banner with the text 'Federal Facilities Council' and a photograph of several modern and traditional buildings. Below the banner, there is a paragraph of text: 'The Federal Facilities Council (FFC) is a cooperative association of 19 federal agencies with interests and responsibilities related to all aspects of facility design, acquisition, management, maintenance, and evaluation. The FFC's mission is to identify and advance technologies, processes, and management practices that improve the performance of federal facilities over their entire life-cycle, from planning to disposal.' A second paragraph follows: 'Through its affiliation with the National Academies and the National Research Council, the FFC provides a unique forum for federal agency staff to work with their counterparts in other agencies to identify and resolve facilities-related issues of mutual concern.' The Windows taskbar at the bottom shows the Start button, several open applications including 'Covers for Conferences...', 'Microsoft Word - Audience...', and 'Federal Facilities Cou...', and a system clock showing '4:04 PM'.



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