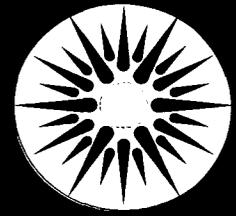


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E&E Researchers and Products Lead the Way

NFRC Window Rating, Simulation Programs Gain Acceptance in Russia

IN A FURTHER MOVE TO enhance energy efficiency around the world, researchers in E&E's Windows & Daylighting Group are helping to bring energy-performance simulation programs to the states of the former Soviet Union.

The effort began recently when Valery Tishenko, Head of Building Standards under the Russian Construction Ministry (Gosstroy) wrote to DOE expressing interest in collaborating closely to improve Russian certification of construction technologies—and in particular, certification of window construction technologies. Mr. Tishenko also requested assistance in transferring the National Fenestration Rating Council (NFRC) rating procedures and computer programs to Russia. LBL has been a major supplier of the information used by the NFRC in developing its window-rating procedures, which are now used throughout the United States and serve as a model for other countries.

As a first step in this collaboration, two Russian programmers, Michael Vilinsky and Vladimir Chornorutsky, came to LBL last month to translate WINDOW 4.1, the latest version of the window-thermal-performance computer program used by NFRC in

their rating of windows (under Section 121 of the federal Energy Policy Act). WINDOW was developed by E&E scientists Dariush Arasteh, Elizabeth Finlayson, Charlie Hulzenga, and Mike Rubin.

In addition, the Russian programmers were tested by NFRC representatives as a step toward becoming NFRC-approved simulators. NFRC certification of the window test facilities at Gosstroy's Building Physics Research Institute could occur later this spring.

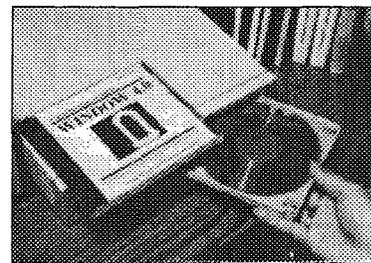
Related Technology Transfer

LBL scientists and Russian energy efficiency experts recently held discussions in Berkeley concerning possible transfer of LBL-developed computer programs for thermal and energy performance. The discussions addressed the possible transfer of additional window-performance programs, translation of DOE-2.1E into Russian, and participation of Russian scientists in developing the next generation of DOE building-performance simulation programs and upgrades to the WINDOW software.

DOE-2 is an LBL-developed whole-building simulation program that determines the energy and peak load performance of buildings and building components (e.g., windows, lighting systems). It provides the tech-

nical basis for building-energy performance standards in North America.

If adopted by Russia, thermal and energy performance programs such as WINDOW and DOE-2 could provide a common technical basis for standards—and trade—



WINDOW 4.0, LBL-developed simulation software that predicts the energy performance of windows, has been translated into Russian.

between the United States and Russia, as well as other member nations of the Commonwealth of Independent States (CIS). ■

The E&E Newsletter is a vehicle for informing E&E staff about people and events of interest to the Division. Send information to the editor, Lila Schwartz, via any of the following routes:

- mailstop 90-3026
- LNSchwartz@lbl.gov
- Quickmail zone "asd"
- phone x4098
- location 90-3027A

Illustrations are welcome.

E&E Division Annual Review Scheduled for April 21-22

The 1994 Director's Review of the Energy & Environment Division will take place at LBL on Thursday and Friday, April 21-22.

As in past years, the review committee will be constituted of experts in the areas of E&E's research. The committee members are as follows:

Arnold P. Fickett, Chair
(formerly V.P., Customer Systems, EPRI; now retired)
Los Altos, CA

Adel Sarofim
Massachusetts Institute of Technology

Donald Watson
School of Architecture
Rensselaer Polytechnic Institute

John Spengler
Exposure Assessment and Engineering Program
Dept. Environmental Health
Harvard University

Peter Blair
Office of Technology Assessment
Washington, DC

William Fulkerson
Associate Director of Advanced Energy Systems
Oak Ridge Nat'l Laboratory

An agenda of presenters and topics will appear in next month's E&E newsletter. Space permitting, E&E staff may attend the presentations. ■

Our continuing summary of last November's E&E 20th Anniversary forum will appear in a future issue.

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V.P. Gore, DOE Secretary O'Leary Attend

E&E Staff Participate in GSA's Energy/Environment Conference

In accordance with its stated new commitment to providing leadership in energy conservation and environmental management, the General Services Administration (GSA) sponsored the 1994 Energy & Environmental Management Conference on March 7-10 in Tysons Corner Virginia. Participants included energy managers and facility operators from the public and private sectors, national laboratories, professional associations, and environmental firms. Jeff Harris of E&E's D.C. Project Office delivered an address on "Energy-Efficient Computing Technology" as part of the three-day conference.

O'Leary, Gore Give Talks

Saying that he hoped "to initiate a dialogue on issues that have been dormant too long," GSA Administrator Roger Johnson hosted a 'town meeting' at GSA headquarters on March 8 to discuss the federal government's role regarding energy and environmental issues. DOE Secretary Hazel O'Leary and Vice President Al

Gore spoke at the meeting in connection with an Executive Order on Energy Efficiency announced the same day and setting a goal for every federal agency to reduce its energy use 30% from its 1985 level. (The current requirement calls for a 20% reduction by the year 2000.) A step in implementing the administration's "reinventing government" initiative (known as the National Performance Review) the order calls for a significant increase in use of solar and other renewable energy technologies and implements the Energy Policy Act's water conservation measures (i.e., through building audits and implementation programs).

Predicting that the order will save American taxpayers as much as \$1 billion in annual energy costs, Secretary O'Leary hailed the Executive Order for "giving us the tools we need to make federal facilities models of energy efficiency." She challenged state and local facilities to follow suit: "I call on you to go back to your states and cities and invest in energy-efficient technologies that, in every case, return more money

to the taxpayer than is spent," she said to town-meeting attendees.

Secretary O'Leary also noted that the relighting program at DOE's headquarters had been recently completed with no outlay of funds; the "shared savings" feature of the contract allowed for the contractor to be paid with realized energy-cost savings. O'Leary said other federal facilities are now using this unique financing method.

"Energy efficiency is good policy and good business," Vice President Gore said to the meeting attendees. Noting that last year (FY93) the federal government spent \$3.5 billion for energy in federal buildings, he discussed how governmental purchasing can simultaneously help to save the environment and save billions of tax dollars.

Other E&E Staff at Conference

A new addition to E&E's D.C. Project Office, Nancy Casey-McCabe, was pleased to have the

opportunity to attend the GSA conference and to hear V.P. Gore and Secretary O'Leary speak. Since the beginning of this month, Nancy has been working for Jeff Harris on issues arising from the Energy Policy Act's sections 127 and 128 (on introducing and marketing energy-efficient products). She is also working on federal procurement of energy-efficient products.

Nancy has a background in journalism and political science and is currently pursuing a master's degree in Environmental Science at Johns Hopkins University. A native of Washington, D.C., she previously worked at the Smithsonian Astrophysical Observatory.

Extending the conference's message of energy efficiency and environmental management to vehicles, several alternative-fuel vehicles were parked outside GSA headquarters for public viewing. ■

Upcoming '94 Earth Week Activities

• **LBL'S 1994 EARTH WEEK** activities will take place April 18-23, 1994, expanding last year's events.

Nature walks of the laboratory grounds, the Eco Fair, films, and roundtable discussions are being considered for the week-long observance. Events will emphasize personal commitment to helping the environment.

• **THE LBL ECO-FAIR** will be held on **Wednesday, April 20** from 11:30 A.M. TO 1:30 P.M. on the lawn in front of the cafeteria. The setup will be expanded from last year's 15 tables to 20 tables. Part of the cafeteria parking lot will be used to display alternatively powered vehicles.

• **THE CITY OF BERKELEY'S** Earth Day will be held on **Saturday, April 23** from noon to 5:00 P.M. LBL will participate with a booth in Civic Center Park. To volunteer to help staff the LBL booth, contact Shaun Fennessey at ext. 5122.

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Lawrence Berkeley Laboratory
University of California
Berkeley, CA 94720
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