

The EETD Newsletter Collection

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- A Visit to the California Governor's Inaugural
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- Chang's New Technique to Clean Up Fossil Fuel Emissions

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Research Highlights:

- EETD's New Website
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- Traffic Physics
- Benner Award Goes to Mary Ann Piette
- EETD, Jordanians Sign Energy MOU

Spring 2006 issue not published

Winter 2005 issue not published

EETD News #22 – Fall 2005, Vol. 6, No. 3

Large Power Savings Found in Automated Demand Response Tests

Climate Change and the Insurance Industry

EETD Evaluates China's Energy-Strategy Options

Groundbreaking Computer Simulation Work Published

Harnessing Wind Energy in Eritrea

Technology Transfer:

- Berkeley Lab Miniaturized Sensor

Berkeley and Sandia Labs Airport Protection Guidelines

Research Highlights:

- Modeling POPs and Climate
- New York Times

EETD News #21 – Summer 2005, Vol. 6, No. 2

Electricity Prices and the Tariff Analysis Project (TAP)
Reducing Developing World's Polluting Fuel-Based Lighting
United Nations World Environment Day June 1-5, 2005
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BEST Winery Tool Helps Reduce Energy and Water Costs
Energy-Saving Paper Sensor Passes Major Milestone

Technology Transfer:

- High-Conductivity Single-Ion Cross-Linked Polymers for Lithium Batteries and Fuel Cells

Research Highlights:

- Lone Pine Visitors Center Wins Energy-Efficiency Award
- Behind the Pritzker Prize

(Final issue to be printed – includes response card for E-Notification requests)

EETD News #20 – Winter/Spring 2005, Vol. 6, No. 1

For Millions of Bangladeshis, Ash May Offer Hope
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ProForm: Assessing Energy and Environmental Impacts
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Technology Transfer:

- Gas-Filled Panels

Research Highlights:

- Better Power Interfaces for Computers and Consumer Electronics
- Fuzzy Logic and Public Health
- The Insurance Industry and Climate Change
- An EETD Blog: bleer.lbl.gov

EETD News #19 – Fall 2004, Vol. 5, No. 4

Cool Colors Project: Improved Materials for Cooler Roofs
BVAMP: Simplifying Assessment of Building Vulnerability
NARAC Expands its Reach: Minimize Chemical-Biological Weapons Casualties
How to Buy Green Power
New Federal Efficiency Standards for Residential Furnaces and Boilers: EETD Researchers Estimate Potential Impacts

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- EETD Scientists Tackle Afghani Housing
- Wray Honored with Distinguished Service Award
- Gadgil Wins Tech Museum Award

(SURVEY – Please take a brief *EETD News* Reader Survey)

EETD News #18 – Summer 2004, Vol. 5, No. 3

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Improved Algorithms Lead to Lab-Scale Combustion Simulations

To Get to Mars, Use Wheat

Carbonaceous Aerosols and Climate Change: How Researchers Proved Black Carbon is a Significant Force in the Atmosphere

Research Highlights:

- Agenda 21 Energy-Efficient Office Building Now Open
- Scientist Recognized for Advancing Wind Energy Markets
- EETD Scientist Receives Fellowship
- EETD Scientist Published Important Dosimetry Treatise
- Recognition for Efforts to Protect Buildings From Chemical and Biological Weapon Attacks

EETD News #16 – Winter 2004, Vol. 5, No. 1

Multi-Building Internet Demand-Response Control System

ASHRAE Residential Ventilation Standard Approved

The *New York Times* and EETD Advance Energy-Efficient Building Design

States and Cities Follow Federal Lead in Energy-Efficient Purchasing

Research Highlights:

- Ed Vine Honored with Lifetime Achievement Award
- McKone Receives Mehlman Award
- William Golove receives Presidential Award

EETD News #15 – Fall 2003, Vol. 4, No. 4

Energy Efficiency and Indoor Environmental Quality in Relocatable Classrooms

CLASP International Success

A Tool to Predict Exposure to Hazardous Air Pollutants

Testing New Battery Materials in Standard Cells

Buildings Technologies Information Gaps Filled by New Sources

Research Highlights:

- Ventilation Standard for Residences Approved
- Mayoral Summit
- Environmental Energy Technologies Division is 30 Years Old

EETD News #14 – Summer 2003, Vol. 4, No. 3

Understanding the Indoor Concentrations of Outdoor Aerosols in Residences

EETD Develops New Commercial Duct-Sealing Technology

Ultraclean Low-swirl Combustion Will Help Clear the Air

Functional Testing Guide Aids Building Teams

Motor System Optimization in China: Building a Model for Industrial Energy Efficiency

Capturing and Tracking Energy-Savings Project Goals with the Design Intent Tool

Microgrids: Reliable Power in Small Package

Research Highlights:

- Environmental Energy Technologies Division Wins “R&D 100” Awards for EnergyPlus Software
- 2003 World Technology Award for Energy Goes to Environmental Energy Technologies Division

EETD News #13 – Spring 2003, Vol. 4, No. 2

Saving Energy Through Improved User Interfaces

Berkeley Lab Helps the City of Oakland Meet Energy Costs

Thermal Distribution Systems in Large Commercial Buildings

Cal-Arch: A California Building Energy Tool for Owners and Operators

Measuring Emissions From Heavy Oil Storage Tanks

New DOE Building Energy Survey

EETD News #12 – Winter 2003, Vol. 4, No. 1

EnergyPlus Saves Federal Building \$9 Million in Energy Costs
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Energy-Related IEQ Research: Setting Priorities
Towards Understanding Atomic and Electronic Structure of Battery Materials
Climate Change May Increase U.S. Crop Damage From Higher Precipitation
Data Center Energy Use: Truth versus Myth

Research Highlights:

- Energy Champion
- EETD Scientist Garner Awards
- New Design Tool Analyzes Cost of Operating a Building over its Lifetime
- New Version of ProForm Released
- Quality, Not More Weight, May Make Vehicles Safer

Fall 2002 issue not published

EETD News #11 – Summer 2002, Vol. 3, No. 4

California Consumers Kept the Lights On
Quick and Easy Web-Based Assessment Tool for Day/Electric Lighting
Berkeley Lab Model Tracks Indoor Anthrax Dispersal
Rating “Green” Laboratories – Labs21 Environmental Performance Criteria

Research Highlights:

- Congressional Clean Energy Expo
- Berkeley Lab Licenses Low-Emission Natural Gas Burner to Maxon Corp.
- EETD Staff Part of Award-Winning Team
- EPOB Head Made Member of Academy
- Published Work Lauded
- Indoor Air 2002 Attracts Widespread Participation
- Berkeley Lab Scientist Honored with World Technology Network Award

EETD News #10 – Spring 2002, Vol. 3, No. 3

Containing the Effects of Chemical and Biological Agents in Buildings
Laser Ultrasonic Sensor Streamlines Papermaking Process
Building a Smarter Light: The IBECs Network/Ballast Interface
IPMVP – From a DOE-Funded Initiative to a Not-for-Profit Organization
Skylight Well Reduces Solar Heat Gain

Research Highlights:

- Plan to Reduce Standby Power Loss Gets Energy Globe Award
- Nobelist Uses Berkeley Lamp
- Energy Choices Made More Difficult
- EETD Scientist Honored for Volunteer Work
- AirLiner® a Winner
- Award-Winning EnergyPlus
- California Energy Commission Funds Data Centers Study

EETD News #9 – Fall-Winter 2001-2002, Vol. 3, Nos. 1-2

BETR North America: A Multimedia Contaminant Fate Model
High-Performance Rechargeable Batteries for Electric Vehicles
Climate Change and Wildfire Severity in California
Cleanroom Energy Benchmarking
BDA: Integrated Decision Support for the Building Life Cycle
New Residential Clothes Washer Energy-Efficiency Standards

Research Highlights:

- World's Smallest Laser
- Indoor Air 2002
- EETD Hosts ACEEE Attendees
- Berkeley Lamp Saves Berkeley Money
- Berkeley Lab Scientist Profiled in Book on American Inventors

EETD News #8 – Summer 2001, Vol. 2, No. 4

The California Energy Crisis: A Brief Summary of Events
The California Energy Crisis: Long- and Short-Term Solutions
High-Performance Commercial Building Systems
Supporting the Cool Roofs Standard
Meteorology, Energy, and Air Quality
High-Performance Fume Hood Reduces Energy Use 50%
The New Berkeley Lamp Will Light the Way to Energy Savings
Two Web Sites Help Californians Save Energy

Research Highlights:

- EETD, Philips Relamping Berkeley's Telegraph Avenue
- Max Sherman Made ASHRAE Director-at-Large
- Aeroseal Corporation Acquired
- EETD Displays New Technology at Lighting Event
- Gas-Filled Panels Win R&D 100 Award
- Summer Student Has Rewarding Experience

EETD News #7 – Spring 2001, Vol. 2, No. 3

New Commercial Building Energy Efficiency Program Launched
Clean Energy Future Assesses Technology and Policy
Managing the Health Impacts of Waste Incineration
The Residential Ventilation Standard
Improving Air Quality Modeling Results

Research Highlights:

- EETD Garners DOE Awards
- EETD Researcher Teaches Readers to Use Numbers Effectively
- Helping Builders and Homeowners Make Intelligent Window Choices
- VisualSPARK 1.0 Now Available
- EETD Seminar Discusses Energy Crisis
- EETD Develops Energy-Efficient Table Lamp
- EnergySmart Schools Inventors Summit Takes Place at Berkeley Lab

Winter 2001 issue not published

EETD News #6 – Fall 2000, Vol. 2, No. 2

EETD Study Explores Electricity Use of Office and Network Equipment

In Memoriam – Joan Daisey

The Fine XAD Sorbent Coating – 2000 R&D 100 Award Winner

Polymers Take Charge

Hotel Survey Illuminates Energy Savings

Research Highlights:

- Energy-Efficient Fume Hood to Begin Field-Testing Phase
- Unusual Approaches to Investigating Energy Efficiency
- Investigating Standby Energy Use of New Internet Technology
- Lab’s Energy-Efficiency Research Benefits Shippers of Perishables

Spring 2000 issue not published

EETD News #5 – Spring 2000, Vol. 2, No. 1

Electrochromic Window Tests in U.S. Office Show Promise

CLASP Helps Developing Nations Implement Energy Standards

EETD Scientists Aid Research Efforts Leading to MTBE Ban

Power Outage Study Team Examines Electricity Reliability

Research Highlights:

- Miscellaneous Electricity Usage Growing
- ProForm: New Software for Environmental Impact Assessment
- EETD Holds Measurement and Verification Training
- Search for Indoor Air Department Head

(EETD News Distribution Shifts to Web)

EETD News #4 – Winter 2000, Vol. 1, No. 4

Lithium Batteries for Hybrid-Electric Vehicles

New Fluorescent Lamp Ballast Energy Efficiency Standards

Leading by Example: In-House Energy Management at LBNL

Berkeley Lab Acts to Implement Presidential “Greening” Order

The Radon Project Web Site

Research Highlights:

- Researchers Develop GHG-Mitigation Guidelines
- New Tool for Measuring Gas Concentrations
- LBNL Helps USPS Win Governor’s Award

EETD News #3 – Fall 1999, Vol. 1, No. 3

High-Performance Commercial Buildings
Diagnostics for Building Commissioning and Operations
Information Management for Performance Metrics
EPIcenter: Montana State University's Green Building Project
Build-IT—An Integrated Design Tool for the HVAC Industry
Desktop Radiance
Building Design Advisor
Software Roundup:

- ADELINE
- COMIS
- DOE-2
- EnergyPlus
- GenOpt
- Home Energy Saver
- RESEM
- RESFEN
- SPARK
- SUPERLITE 2.0
- THERM
- WINDOW 4.1

Current Status of Software Interoperability and DOE Tools

EETD News #2 – Summer 1999, Vol. 1, No. 2

Energy for Industry
Laser Ultrasonics for Paper Quality
Low-Emissions Burner
Avoiding Particle Deposition in Small Scale Electronics
Thermal Management for Automobiles
Energy-Efficiency Improvements for U.S. Steel Industry
INEDIS: Global Network for Industrial Energy Analysis
Development Banks and Industrial Energy Efficiency in India
High-Tech Buildings
Working Within Markets to Affect Change
Carbon Monoxide Occupational Sensor
Materials End-Use Efficiency to Reduce Industrial Energy Demand
Research Highlights:

- An Overview of Proposed ASHRAE Standards
- XRF Helps Archaeologists Determine the Origin of Ancient Pottery
- EETD Research Team Wins *Architecture* Research Award

EETD News #1 – Spring 1999, Vol. 1, No. 1

Characterizing Diesel Particle Exhaust
Miscellaneous Electricity Use
COMIS: An Interzonal Air-Flow Model
GenOpt: A Generic Optimization Program
News From the D.C. Office
Around the Division:

- Better and More Efficient Lighting for Post Office Workers
- Gasoline Additive Examined
- Spectrally Selective Low-E Detector Reassures Builders
- Energy Efficiency as an Insurance Loss-Prevention Strategy
- EETD Helps Put Some Air in California's Energy Standards

A-Team Report:

- Pikes Peak Charrette