

# Lawrence Berkeley National Laboratory

## LBL Publications

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LBL Newsletter

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### Publication Date

1979-08-01

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JOSE OLIVARES  
BLDG. 50B RM. 4206  
LBL

NEWSLETTER

July-August 1979

Editor: Jeffrey Kessel  
(90-3026, ext. 5297)

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**Energy and Environment Division**

\* DIVISION NEWS \*

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- The following item from *Barbara West* discusses the Conservation-Solar personnel limits:

As a part of the Institutional Plan exercises, DOE has recently reviewed the entire Lab and, in particular, the conservation and solar effort here. They have now provided guidance to the Laboratory regarding the future directions and personnel levels for the Lab as a whole and for this program. For LBL they have approved FY80 total FTEs of 2966; this number is little different from where we now are. For Conservation & Solar Applications, they have approved 116 FTEs. This is about where we are now, but 24 FTEs below where we hoped to be next year.

In addition, HQ has approved two new initiatives in Conservation: Energy Conservation Standards for New Buildings (DOE-2); and the Energy Efficient Light Bulb.

The personnel limits for the CS program do not allow for the expansion we requested for the new initiatives. As a result, starting these new projects will require some reductions in our planned effort levels. The scope of the work will be changing and developing at DOE's request, with a goal of transferring tasks from LBL to private industry as quickly as practicable.

Future years are unsettled. It appears DOE wants to reduce the size of all the national labs. So for FY81 we may face a real crunch or the political climate may change by that time. Stay tuned . . .

- *Albert Boccara* and *Danielle Fournier* of the Laboratoire d'Optique Physique of the Ecole Supérieure de Physique at Chimie, Paris, France, are visiting *Nabil Amer's* Applied Laser Spectroscopy Group to work for five weeks on opto-acoustic spectroscopy.
- *Maria Ossa*, formerly of the Division Office and now with the Ventilation Group, has an unusual task--housesitting an energy-efficient house. As part of a series of measurements by LBL researchers on the Southern California Edison Minimum Energy Dwelling at Mission Viejo, Maria and her family will be occupying the normally empty dwelling in order to mimic the activities of typical occupants during measurements of infiltration and indoor air pollution.

PMB 289

- A note found scrawled on *Barbara West's* office door:

WHEN IS THE DIVISION ADMINISTRATOR  
NOT THE DIVISION ADMINISTRATOR?

Answer: When she's on vacation. And she is.

*Barbara West* left late the night of July 19 to play in South America. She and *Phyllis Fox* flew to Cartago, Colombia, where *Barbara's* brother raises coffee and chocolate. After a caffeine, chocolate, and sleeping binge, they proceeded to Peru.

Their first goal in Peru was a 15,500 ft. pass along an old Inca trail in La Parque Nacional de Huascañan--backpacking, no less. Assuming they survive that, they plan to proceed to Lake Titicaca, Cuzco, and Macchu Picchu. Then 'over the edge' -- 10,000' down into the Amazon basin, to Puerto Maldonado in eastern Peru. *Phyllis* claims she's looking for oil shale. *Barbara* promises to provide a definitive headcount of piranhas (or they of her).

Next is a hop to Guayaquil, a port on the coast of Ecuador. They fervently hope to spend only one hour there. (It's a great town if you like humidity and temperatures of 110, each.) But if all goes well, *Craig Hollowell* will join them there, and the three of them, plus two other travelers will fly out to the Galapagos Islands--about 600 miles west of Ecuador, site of Charles Darwin's Discoveries which he recorded in The Origin of the Species. The intrepid explorers will meet a 56 foot sloop with captain, cook, and naturalist for 10 days of sailing and exploration on and around the islands.

The last stop on the odyssey will be a few days in Quito. They will all be back in the office on September 5--tan (or burned), fit (or debilitated), and would you believe, ready for another year.

\* APPOINTMENTS, AWARDS, GRANTS AND HONORS \*

- *Nabil Amer* has been appointed to the editorial board of the International Journal of Photoacoustics.
- *Yvonne Ladson* of the Energy Analysis Program has been appointed to the Energy Committee of the National Association for the Advancement of Colored People. This committee was established in 1978 to develop an energy policy in the best interests of the poor. *Yvonne* attended the Annual Convention of the NAACP held in Louisville, KY, where she represented LBL as a consultant at the Housing Workshop.

\* TRIPS, CONFERENCES AND PRESENTATIONS \*

- *Carlos Figueroa* will be presenting a paper, "The Albany Waste-to-Oil Project", at a conference at Henniker, New Hampshire, sponsored by Occidental Research.

- *Warren Jackson* will attend the meeting of the Optical Society of America on Photoacoustics, to be held at Iowa State University the first week in August. Warren will present a paper titled "Dependence of Piezoelectric Photoacoustic Signal on Sample Properties".
- *Charles Kinoshita* will attend the 18th Heat Transfer Conference of the American Society of Mechanical Engineers in San Diego, August 6-8. He will present a paper titled "Laminar Wake Flame Height".
- *Antoni Oppenheim* will be traveling to West Germany, Poland, and the Soviet Union to attend meetings and conferences on Combustion. The three-week trip will include stops at Gottingen, Wroclaw, Moscow, and Minsk.
- *Robert Sonderegger* attended the 2nd International CIB Symposium on Energy Conservation in the Built Environment in Copenhagen, Denmark, May 28-June 1, where he presented two papers: "Electric Co-Heating: A Method for Evaluating Seasonal Heating Efficiencies and Heat Loss Rate In Dwellings"; and "Air Leakage, Surface Pressures & Infiltration Rates In Houses".

\* RECENT LBL REPORTS \*

- The following reports are listed in *TID Reports* for March, 1979:
  - LBL-07860    Analysis of the California Solar Resource, Volume 2: Final Report, Nov. 1978, 81 p., P. Berdahl, D. Grether, M. Martin, and M. Wahlig.
  - LBL-07882    Energy Conservation and the Environment: Conflict or Complement?, Sep. 1978, 82 p., Presented at the Conference on Impacts and Risks of Energy Strategies, Beijer Institute, Royal Swedish Academy of Sciences, Stockholm, September 1978, and the Environmental Secretariate, Organization for Economic Cooperation and Development, Paris, October 1978, L. Schipper.
  - LBL-07893    Another Look at Energy Conservation, Aug. 1978, Presented at the American Economic Association Meeting, Chicago, IL, August 30, 1978, L. Schipper.
  - LBL-08481    DOE-1 Sample Run Book, Mar. 1979, 509 p.
  - LBL-08569    DOE-1 Users Guide, Mar. 1979, 273 p.
  - LBL-08658    Process Development Studies on The Bioconversion of Cellulose and Production of Ethanol, Dec. 1978, 65 p., C.R. Wilke and H.W. Blanch.
  - LBL-08747    Heat Transfer During Piston Compression Including Side Wall and Convection Effects, Feb. 1979, 28 p., Submitted to Int. J. Heat Mass Transfer, R. Greif, T. Namba, and M. Nikanjam.

- LBL-08814 A Classification Scheme for the Common Passive and Hybrid Heating and Cooling Systems, Feb. 1979, 8 p., Presented at the Third National Passive Solar Conf., San Jose, CA, Jan. 11-13, 1979, M.J. Holtz, W. Place, and R.C. Kammerud.
- LBL-08828 Air Leakage, Surface Pressures and Infiltration Rates in Houses, Mar. 1979, 10 p., Second Intl. CIB Symposium on Energy Conservation in the Built Environment, Copenhagen, Denmark, May 27-June 1, 1979, D.T. Grimsrud, M.H. Sherman, R.C. Diamond, and R.C. Sonderegger.
- LBL-08892 Indoor Air Quality in Energy-Efficient Buildings, Mar. 1979, 12 p., Presented at the Second Intl. CIB Symposium on Energy Conservation in the Built Environment, Copenhagen, Denmark, May 27-June 1, 1979, C.D. Hollowell, J.V. Berk, C.I. Lin, and I. Turiel.
- LBL-08893 Automatic Variable Ventilation Control Systems Based on Air Quality Detection, Mar. 1979, 10 p., Presented at the Second Intl. CIB Symposium on Energy Conservation in the Built Environment, Copenhagen, Denmark, May 27-June 1, 1979, I. Turiel, C.D. Hollowell, and B.E. Thurston.

\* NEW EMPLOYEES \*

- *Frank McLarnon*, formerly a professor in the Department of Chemical Engineering at U.C.-Davis, will be managing LBL's Applied Battery and Electrochemical Research Project. This project, the initial portion of the Laboratory's eventual role as lead lab for Electrochemistry, involves research at LBL within the divisions of Energy & Environment and Materials and Molecular Research, as well as managing research projects located elsewhere. Frank will be working with *Elton Cairns* on zinc battery electrode research.
- *Jeff Casey*, a student of Physics at UCB, joined the envelopes group to work on infiltration research.

\* SEMINARS \*

TUESDAYS, 4 P.M., BLDG. 90, Room 3148

- 7 August NO SEMINAR
- 14 August Carl Blumstein, LBL  
"Forecasting Residential Electricity Sales"
- 21 August NO SEMINAR
- 28 August David Gregg, LLL  
"Preliminary Results on Solar Thermal Coal Gasification and Oil Shale Retorting"