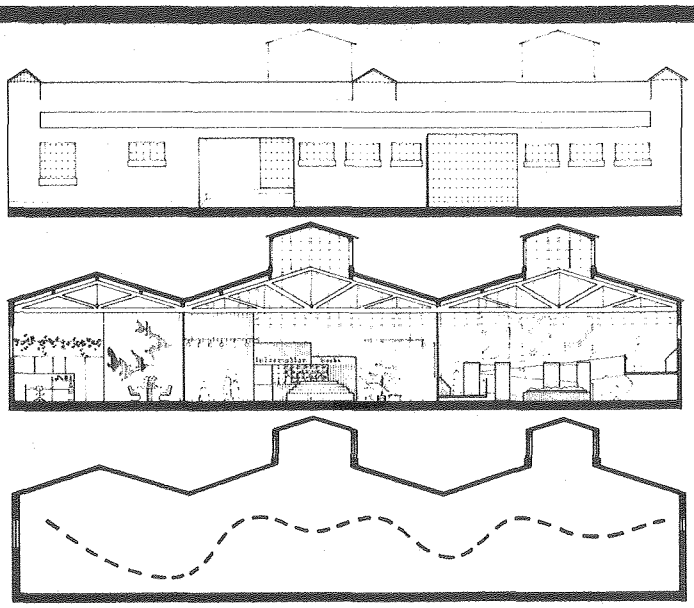
LBL-10417
Preliminary Report

Lawrence Berkeley Laboratory

UNIVERSITY OF CALIFORNIA

ENERGY & ENVIRONMENT DIVISION

DAYLIGHTING DIRECTORY



1/1980

Prepared for the U.S. Department of Energy under Contract W-7405-ENG-48

DISCLAIMER

DAYLIGHTING DIRECTORY 1/1980

ACKNOWLEDGMENT

This report was funded by the Office of Buildings & Community Systems, Assistant Secretary for Conservation and Solar Applications of the U.S. Department of Energy under Contract W-7405-ENG-48.

A renewed interest in the energy conservation potential of daylighting has generated new research, applications and demonstration activities over the last few years. It is apparent that even those people actively working in the field are frequently not aware of all of the ongoing projects and activities. At the same time, the total national effort to utilize daylighting effectively in buildings on a broad scale is still very small, thus making it important that current activities are "crossfertilized".

Given the wealth of historical interest in daylighting, the relative lack of existing expertise and resources in the field and the tremendous interest in the subject now being expressed by design professionals the need for information links among daylighting experts and between experts and building designers has become apparent. The intent of this publication is to fill that need by providing current listings of individuals and organizations that are actively engaged in daylighting work and related publications and upcoming events of interest. This directory was compiled from information contained in the survey response forms which were filled out and returned to us over the last few months. Responsibility for the accuracy and completeness of each survey form lies entirely with the respondents.

The directory is composed of five parts.

1. Participant Survey Response: Contains the survey response forms as submitted to us, listed alphabetically by responding organization.
2. Activity Index: Lists individual respondents alphabetically, showing the daylighting activities each has checked. Allows the reader to quickly identify the individuals working in a specific area. Once an individual is identified, turn to the "Individual Index" to find the page numbers where that individual may be located in other areas of the directory.
3. Individual Index: Lists individual respondents alphabetically.
4. Daylighting publications: Lists the publications by each respondent (authors listed alphabetically).
5. Notes of Interest: Contains a variety of information on meetings, conferences, new projects and publications, etc. This material was collected from a variety of sources in addition to the survey respondents.

We will update and republish this document at irregular intervals as additional information is compiled. The format and organization is informal and we welcome suggestions as to how successive issues might be changed and/or expanded to increase their usefulness to readers. The information we have collected is also being

entered into a computerized data base system with extensive search capabilities. As the directory grows in size, this will allow us to provide updates and specialized searches with a minimum of effort and cost.

This first issue falls far short of including all those who are active and involved in the field of daylighting. We solicit your assistance in identifying other individuals and groups who should be included in future issues.

This publication is being undertaken as a joint effort by the Illuminating Engineering Society (IES) Daylighting Committee and by the Lawrence Berkeley Laboratory as part of its DOE sponsored Energy Efficient Buildings Program.

The IES Daylighting Committee has been responsible over the last 30 years for developing a design and engineering basis for daylighting design in the United States, and updates and revises the recommended practices and the chapters on daylighting in the IES Handbook. Contact Ben Evans, Chairperson for additional information.

Lawrence Berkeley Laboratory is responsible for the DOE Daylighting Program, supported by the Office of Buildings and Community Systems. Research, demonstration, information dissemination and educational activities throughout the United States are planned and sponsored through LBL. Funding from this program currently supports efforts to: develop an availability data base, build artificial skies for model studies, develop simplified design methods, commercialize improved lighting control systems, demonstrate daylighting systems in buildings, study daylighting/thermal tradeoffs, develop novel daylight techniques, and produce and disseminate educational packages for schools and design professionals. Contact Steve Selkowitz for additional information about the daylighting projects.

Ben Evans
c/o College of Architecture & Urban Studies
Virginia Polytechnic Institute
Blacksburg, VA 24061
(703) 961-5383

Stephen Selkowitz, Joyce Popendorf
Energy Efficient Windows & Daylighting Program
Bldg. 90 Rm.3111
Lawrence Berkeley Laboratory
Berkeley, CA 94720
(415) 486-5605

For additional information concerning this publication please contact Joyce Popendorf.

FIRM/ORGANIZATION BELL LABS DATE 8/30/79

ADDRESS 4B-423
Holmdel, NJ ZIP 07733

NAME Michael A. Duguay PHONE (201) 949-3935

POSITION/TITLE Dr.

CURRENT DAYLIGHTING ACTIVITIES

Designing solar concentrators and lens guides for beam sunlighting

RECENT PUBLICATIONS/PRESENTATIONS

Applied Optics, Vol. 18, pp. 2081-2084, June '79
American Scientist, Vol. 65, pp. 422-427, July '77
Applied Optics, Vol. 16, pp. 1444-1446, May '77

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	X
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION BICKLE/CM INC. DATE 8/8/79

ADDRESS 2403 San Mateo, NE Suite S-8
Albuquerque, NM ZIP 87110

NAME Jim McNamara PHONE (505) 265-3751

POSITION/TITLE Program Manager

CURRENT DAYLIGHTING ACTIVITIES

Our Goals:
- Optimize the building shell for passive heating or cooling and daylight.
- To consider daylight as having a major contribution in reducing a building's energy budget.

Projects(Energy consultant):
- 45 story Office Building in Sinapore
- Modular Biology Building, City of Hope National Medical Center.
- Small office building, Albuquerque, New Mexico.

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION California Energy Commission — DATE 8/3/79

ADDRESS Conservation Division
1111 Howe Avenue
Sacramento, California — ZIP 95825

NAME Paula Burnette and Don Carner — PHONE (916) 920-6085

POSITION/TITLE Energy Analyst/Energy Conservation Specialist

CURRENT DAYLIGHTING ACTIVITIES — Research Project

Attitudes Toward Light in the Working Environment

A rondom stratified sample of 500 office workers was given an attitudinal survey that obtained user response to questions on visibility/visual task performance, health of the eye, the working environment, and attitudes related to light. The Commission developed a special tool for photo-documenting the lighting environment of each subjects work space. Slides of the hemisphere over the workspace are now being coded and the physical data will be added to the attitudinal data for an analysis of relative contributions of the physical environment and attitudinal parameters to user satisfaction. Results are expected to be available at the end of November.

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	X
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	X
THERMAL/ILLUMIN.	
USER RESPONSE	X
BUILDING DESIGNER	

FIRM/ORGANIZATION CATER & PARKS INC. — DATE 9/10/79

ADDRESS 212 So. 28th St.
Briam , AL. — ZIP 35233

NAME Frank M. Cater — PHONE (205) 251-9847

POSITION/TITLE Vice- President

CURRENT DAYLIGHTING ACTIVITIES

Incorportating daylighting design into present projects as a supplement to artificial lighting

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION DAVIDSON LABORATORY DATE 8-1-79
Stevens Institute of Technology
ADDRESS 711 Hudson Street
Hoboken, New Jersey ZIP 07030
NAME Robert L. Van Dyck PHONE (201) 420-5292
POSITION/TITLE Research Engineer - Building Technology Research Division

CURRENT DAYLIGHTING ACTIVITIES

Currently, working with two thermally-insulated rooms joined by a window known as the Levolor Environmental Simulator. This facility consists of an indoor calorimeter and an "outdoor" solar simulator designed for the purpose of investigating venetian blinds and other glazing products for potential energy savings or solar energy collecting purposes.

RECENT PUBLICATIONS/PRESENTATIONS

"Investigation of Interior Shading for Energy Efficient Windows," (with Thomas P. Konen). Presented at the Mid-Atlantic Solar Energy Association Solar Glazing Conference, June 1979.

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	X
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION DESIGN OFFICE CONSORTIUM DATE 11.9.79
ADDRESS GUILDHALL PLACE
CAMBRIDGE UK ZIP CB2 3QQ
NAME K S BURGESS PHONE ( )0223 311246
POSITION/TITLE APPLICATIONS CONSULTANT

CURRENT DAYLIGHTING ACTIVITIES

PROVIDING A DAYLIGHT ANALYSIS SERVICE USING PUBLICLY AVAILABLE COMPUTER PROGRAMS. ADVISING COMPUTER USERS ON THE SUITABILITY OF PARTICULAR DAYLIGHT ANALYSIS PROGRAMS.

RECENT PUBLICATIONS/PRESENTATIONS

'COMPUTER PROGRAMS FOR ENERGY IN BUILDINGS EVALUATION REPORT NUMBER THREE
A comprehensive evaluation of eight computer programs for the prediction of daylighting in buildings.

Price £5(£2 TO MEMBERS OF DOC)

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION Charles Eley Associates DATE 7/29/79

ADDRESS 342 Green Street
San Francisco, CA ZIP 94133

NAME Charles Eley, AIA PHONE (415) 398-6535

POSITION/TITLE Principal

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
Architect	X
BUILDING DESIGNER	X

FIRM/ORGANIZATION Glumac and Associates, Inc. DATE 8/1/79

ADDRESS #1 Embarcadero Center
San Francisco, CA ZIP 94111

NAME Rick Thomas PHONE (415) 398-7667

POSITION/TITLE Vice-President

CURRENT DAYLIGHTING ACTIVITIES

Building lighting systems which take advantage of daylighting by photo-control on-off or switching manually. . .

Activities center around practical methods of calculating illum. levels and practical control methods

Applications include: Retail stores (skylights/window)
Office spaces

RECENT PUBLICATIONS/PRESENTATIONS

None

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	X
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	X

FIRM/ORGANIZATION J. W. Griffith DATE

ADDRESS 3921 Caruth Blvd.
Dallas, TX ZIP 75225

NAME J. W. Griffith PHONE (214) 368-3753

POSITION/TITLE

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS

Daylight & energy conscious design
ASHRAE Symposium Detroit conference
transactions 1979 Vol. 85 part 2

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	X
CASE STUDIES	X
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION IBM Scientific Center DATE 7/26/79

ADDRESS 9045 Lincoln Blvd.
Los Angeles, Ca. ZIP 90045

NAME Dr. S. A. Jurovics PHONE (213) 670-8350

POSITION/TITLE Member, Scientific Staff

CURRENT DAYLIGHTING ACTIVITIES

A computer program has been developed which predicts the brightness at a point in a room due to natural light. The program accesses the data of J. V. Dave to obtain the direct and diffuse radiation exterior to the room. The lighting program has been integrated into a particular version of NBSLD. This version calculates optimal window sizes, taking into account the thermal/illumination tradeoff.

RECENT PUBLICATIONS/PRESENTATIONS

"Solar Radiation Data, Natural Lighting, and Building Energy Minimization," presented at ASHRAE Symposium, June 1979, Detroit, paper number DE-79-2 No. 1, and IBM LASC Report No. G320-2699.

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	✓
CONTROLS-LIGHT	✓
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	✓
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION William Lam Associates, Inc. DATE 8/1/79

ADDRESS 101 Foster Street
Cambridge, MA ZIP 02138

NAME William Lam PHONE (617) 354-4502

POSITION/TITLE President

CURRENT DAYLIGHTING ACTIVITIES

Consulting in several projects -- including TVA - Chattanooga, which uses beam sunlighting.

Teaching at Harvard Graduate School of Design and M. I. T. in 1979-80.

RECENT PUBLICATIONS/PRESENTATIONS

Energy Inform
Summer Workshop in Energy Conscious Design

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	X
SKYLIGHTS	X
GLARE	X
THERMAL/ILLUMIN.	X
USER RESPONSE	X
Consultant to	
BUILDING DESIGNER	X

FIRM/ORGANIZATION Lawrence Berkeley Laboratory DATE 12/79

ADDRESS Bldg. 90, Rm. 3111
Berkeley, Ca. ZIP 94720

NAME Stephen Selkowitz PHONE (415) 486-5605

POSITION/TITLE Program Manager, LBL/DOE Daylighting Program

CURRENT DAYLIGHTING ACTIVITIES

Responsible for DOE supported Windows and Daylighting Program. Program includes research, demonstration and educational activities designed to promote wide spread utilization of daylight in buildings. Projects include:

1. Daylighting availability studies and illumination/insolation correlations
2. Design and construction of a 24' diameter artificial sky for model studies
3. Demonstrations of energy savings from daylighting in two office buildings
4. Commercialization of dimmable fluorescent ballasts & improved lighting controls
5. Development of clear sky design methods and simiplified design tools
6. Integration of daylighting capabilities into building thermal analysis models
7. Determination of impact of daylighting in utility loads & peak demands
8. Test and evaluation of beam sunlighting concepts
9. Development and dissemination of Daylighting Educational Resource Package & DOE Daylighting Resource Center

RECENT PUBLICATIONS/PRESENTATIONS

"Beam Daylighting, An Alternative Illumination Technique", Energy and Building, Vol. No. 1, 1977.

"Effective Daylighting in Buildings," Parts I and II, Lighting Design and Applications, Feb. and March, 1979.

"Daylighting and Passive Solar Buildings", Proceedings of the 3rd National Passive Solar Conference, PP. 271-281, January,1979.

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	X
BEAM SUNLIGHTING	X
SKYLIGHTS	X
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION LIGHTING RESEARCH LABORATORY DATE 7-31-79

ADDRESS P O BOX 6193
ORANGE, CA ZIP 92667

NAME Bill F. Jones PHONE (714) 771-1312

POSITION/TITLE Owner

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	X
GLARE	X
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	X

FIRM/ORGANIZATION NASA Langley Research Center DATE 7/30/79

ADDRESS M/S 235
Hampton, VA ZIP 23665

NAME Howard B. Edwards PHONE (804) 827-3907

POSITION/TITLE Chief, Instrument Research Division

CURRENT DAYLIGHTING ACTIVITIES

Design of internally reflecting light pipes to carry both sunlight and sky light to inside rooms. Includes special effects such as spot lighting from sky light.

RECENT PUBLICATIONS/PRESENTATIONS

NASA Tech Brief No. LAR-12333, Optics for Natural Lighting, NASA Tech Briefs Summer 1978.
Howard B. Edwards, Bringing Outdoor Light Indoors, The Virginia Engineer, Feb. 1979, p. 19.

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
LIGHT PIPES	✓
BUILDING DESIGNER	

FIRM/ORGANIZATION National Bureau of Standards DATE 7/30/79

ADDRESS National Bureau of Standards Building 226 Room B104
Washington, D.C ZIP 20234

NAME Dr. T. Kusuda / Stephen Treado PHONE (301) 921-3501

POSITION/TITLE Group Leader, Thermal Analysis

CURRENT DAYLIGHTING ACTIVITIES

Daylighting measurements under various sky conditions for different window characteristics and task portions.

Mathematical modeling of total daylighting with respect to total hemispherical outdoor radiation.

RECENT PUBLICATIONS/PRESENTATIONS

Comapritive Analysis between simplified daylighting calculations procedures and comprehensive interreflections model calculation procedures of GLIM and LUMEN-II. Third symposium on the use of Computer for Enviromental Engineering Related to Buildings, BANFF May 1978.

ACTIVITY SUMMARY	✓
AVAILABILITY	✓
DESIGN METHODS	✓
CONTROLS-LIGHT	
CONTROLS-SOLAR	✓
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	✓
GLARE	
THERMAL/ILLUMIN.	✓
USER RESPONSE	
ENERGY CONSERVATION	✓
BUILDING DESIGNER	✓

FIRM/ORGANIZATION NATIONAL FENESTRATION COUNCIL DATE 11/14/79

ADDRESS NATIONAL BUREAU OF STANDARDS BUILDING RESEARCH RM B-104
WASHINGTON, D.C. ZIP 20234

NAME GARY GILLETTE PHONE (301)921-3285

POSITION/TITLE RESEARCH ASSOCIATE

CURRENT DAYLIGHTING ACTIVITIES

Effort is presently underway to develop daylighting algorithms for use in DOE-2 and other energy simulation computer programs.

Daylight availability data will be collected for Washington, D.C. beginning early in 1980.

RECENT PUBLICATIONS/PRESENTATIONS

"A Review of the State-of-the-Art of Daylighting in Buildings"

"The Energy Implications of Daylighting in Classroom Design"

ACTIVITY SUMMARY	✓
AVAILABILITY	✓
DESIGN METHODS	✓
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	✓
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	✓
GLARE	
THERMAL/ILLUMIN.	✓
USER RESPONSE	
DAYLIGHT/ENERGY	✓
BUILDING DESIGNER	

FIRM/ORGANIZATION Pacific Gas & Electric Co. DATE 8/7/79

ADDRESS 245 Market St., Rm 736
San Francisco, CA ZIP 94106

NAME Fred J. Klammt PHONE (415) 781-4211, X2627

POSITION/TITLE Energy Utilization Engineer

CURRENT DAYLIGHTING ACTIVITIES

Interaction of HVAC & lighting energy conservation through daylighting. Industrial and commercial building auditing with emphasis on reducing lighting energy requirements in window areas, without increasing HVAC operating costs

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION Pilkington Glass Ltd. DATE 8/79

ADDRESS 101 Richmond St. West
Toronto, Ontario, Canada ZIP M5H 1V9

NAME Stan Metrick PHONE (416) 363-7561

POSITION/TITLE Technical Manager

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION Princeton Energy Group DATE 8/13/79

ADDRESS 729 Alexander Rd.
Princeton, NJ ZIP 08540

NAME William L. Glennie PHONE (609) 452-8235

POSITION/TITLE Design Analyst

CURRENT DAYLIGHTING ACTIVITIES

Design of components for Butter Manufacturing Co.

Development of program to analyze unusual and innovative lighting configurations.

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	X

FIRM/ORGANIZATION Rohm and Haas Company DATE 8/1/79

ADDRESS Plastics Engineering Laboratory
P.O. Box 219, Bristol, PA ZIP 19007

NAME William C. Burkhardt PHONE (215) 785-8302

POSITION/TITLE Applications Engineer

CURRENT DAYLIGHTING ACTIVITIES

We are currently providing a free service to Architects, Consulting Engineers, and Builder/Owners that analyzes the energy transfers thru a skylighted roof. It also predicts the illumination level (hourly and monthly) inside of a building with skylights on clear and overcast days. We also discuss light and solar control using tinted acrylic glazing.

RECENT PUBLICATIONS/PRESENTATIONS

Solar U-Number (S-U-N) Modifiers for Skylights, (ASHRAE), Annual Technical Conf., 6/27/79, Detroit, MI, ASHRAE Trans. 1979, Vol. 85, Part 2.

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	X
GLARE	X
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION S & H Information Systems, Inc. DATE 8/?/79

ADDRESS 11 West 42nd St., New York, N.Y. ZIP 10036

NAME Laheri Mehta, P.E. PHONE (212) 921-2807

POSITION/TITLE Technical Director

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	✓
DESIGN METHODS	✓
CONTROLS-LIGHT	✓
CONTROLS-SOLAR	✓
HISTORICAL REVIEW	✓
CASE STUDIES	✓
BEAM SUNLIGHTING	✓
SKYLIGHTS	✓
GLARE	✓
THERMAL/ILLUMIN.	✓
USER RESPONSE	✓
BUILDING DESIGNER	

FIRM/ORGANIZATION Smith Hinchman & Grylls Assoc., Inc DATE 7/25/79

ADDRESS 455 W. Fort
Detroit, Michigan ZIP 48226

NAME David L. DiLaura PHONE (313) 964-3000

POSITION/TITLE Illuminating Engineer

CURRENT DAYLIGHTING ACTIVITIES

Investigating advanced computational tools for use in daylighting design. This includes mathematical models and algorithms for the efficient and economical calculation of the effects of daylighting with realistic control devices.

RECENT PUBLICATIONS/PRESENTATIONS

"On Calculating the Effects of Daylighting in Interior Spaces", D.L. DiLaura and G. Hauser, Journal of the Illuminating Engineering Society, October, 1978

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION SOLAR ENERGY RESEARCH INSTITUTE/ passive tech. br. DATE 14 Sept. 79

ADDRESS 1536 Cole Blvd.
Golden, Colorado ZIP 80401

NAME Steven E. Ternoey PHONE (303) 231-1185

POSITION/TITLE Architect

CURRENT DAYLIGHTING ACTIVITIES

* Compliling Daylighting Bibliography
* Technical Report on laylighting design methodologies
* Simple comparative analysis of predicted and measured daylight performance.
* Select concept generation, testing and assessment of combined lighting, heating and cooling systems for commercial buildings.

RECENT PUBLICATIONS/PRESENTATIONS

* Directory of People in Daylighting

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	XX
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	XX
BEAM SUNLIGHTING	XX
SKYLIGHTS	XX
GLARE	XX
THERMAL/ILLUMIN.	XX
USER RESPONSE	
BUILDING DESIGNER	XX

FIRM/ORGANIZATION Southern California Edison Company DATE 8-3-79

ADDRESS P.O. Box 800
Rosemead, California ZIP 91770

NAME Andrew V. Bonner PHONE (213) 572-2020

POSITION/TITLE Lighting Services Coordinator

CURRENT DAYLIGHTING ACTIVITIES

Member-CEC Daylighting Task Force

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION STEVENS LUMINOPTICS CORPORATION DATE 7/27/79

ADDRESS 12907 "H" Alcosta Blvd.
San Ramon, California ZIP 94583

NAME W.R. Alling PHONE (415) 838-8092

POSITION/TITLE Vice President & General Manager

CURRENT DAYLIGHTING ACTIVITIES

Energy efficient lighting, electronic ballasts, proportional photocell controls for lighting, integrated skylight systems In the process of developing four daylighting demonstration programs in various parts of the country utilizing both HID and fluorescent light sources.

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	X
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	X
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION JULES THORN LIGHTING LABORATORY DATE 19/9/79

ADDRESS Great Cambridge Road
Enfield, Middlesex, England ZIP En1 1HL

NAME J.A. LYNES PHONE ( )01- 363-5353

POSITION/TITLE Project Engineer

CURRENT DAYLIGHTING ACTIVITIES

Research and consultanting in all aspects of lighting

RECENT PUBLICATIONS/PRESENTATIONS
"Principles of Natural Lighting", Applied Science Publishers
"Developments in Lighting "(editor) " " "
Joint Paper w Crisp, Collins & Hunt, CIE Conference, Kyoto, Aug. '79

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	X
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION Eric Thrun Associates, Ltd. DATE 30-07-79

ADDRESS 200-1177 W. Broadway
Vancouver, B.C., Canada ZIP V6H-3N5

NAME Eric Thrun P. Eng. PHONE (604) 734-4123

POSITION/TITLE President

CURRENT DAYLIGHTING ACTIVITIES

Lumen II computer analysis of levels of classical raw illumination & equivalent sphere illumination available from daylight in typical office/school spaces (contract with public works, Canada). Variables included 2 days of the year, 3 times per day, cloudy & clear sky, 3 latitudes, window wverhang & no overhang, 3 room sizes, 4 window orientations.

RECENT PUBLICATIONS/PRESENTATIONS

Report to be completed Sept. 1979 & will contain 81 color daylight graphs covering 4 viewing directions for each of 864 conditions

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION TISHMAN RESEARCH CORPORATION DATE Aug. 1979

ADDRESS 666 Fifth Avenue
New York, NY ZIP 10019

NAME Oscar Turner PHONE (212) 399-3285

POSITION/TITLE Architect

CURRENT DAYLIGHTING ACTIVITIES

1. Evaluating construction projects for application of daylighting.

2. Working as consultant to PPG to promote daylighting concepts with owners, designers and code officials.

RECENT PUBLICATIONS/PRESENTATIONS

1. The National Real Estate Investor, August, 1979 "Window Management Can Lead to Energy Savings

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION DEPARTMENT OF ARCHITECTURAL ENGINEERING DATE 8-1-79

ADDRESS THE PENNSYLVANIA STATE UNIVERSITY
UNIVERSITY PARK, PA. ZIP 16802

NAME JOHN E. FLYNN PHONE (814) 863-2085

POSITION/TITLE PROFESSOR OF ARCHITECTURAL ENGINEERING

CURRENT DAYLIGHTING ACTIVITIES

WORK AIMED AT DEVELOPING A COMPUTERIZED PROGRAM FOR PREDICTING AND EVALUATING DAYLIGHTING PERFORMANCE IN A MANNER THAT CAN INTERFACE WITH THERMAL ANALYSIS (PSU/DLT)

RECENT PUBLICATIONS/PRESENTATIONS

"A REVIEW OF THE STATE-OF-THE-ART FOR DAYLIGHTING BUILDINGS" MARCH 1979
(with Howard Kingsbury, Gary Gillette)

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	X
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	X
BUILDING DESIGNER	

FIRM/ORGANIZATION The Pennsylvania State University DATE 7-30-79

ADDRESS 204 Engineering 'A' - Dept. of Architectural Engineering
University Park, Pennsylvania ZIP 16802

NAME H. F. Kingsbury PHONE (814) 863-2076

POSITION/TITLE Associate Professor

CURRENT DAYLIGHTING ACTIVITIES

Have research grant from private sponsor to investigate coordination of thermal and luminous calculations via computer program.

RECENT PUBLICATIONS/PRESENTATIONS

With John Flynn & Gary Gillette, have made report to sponsor on a "Review of the Current State of the Art on Daylighting".

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	X
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION University of California, Berkeley DATE 8/31/79

ADDRESS Berkeley, California
ZIP 94720

NAME Edward Dean PHONE (415) 642-7510

POSITION/TITLE Assistant Professor of Architecture

CURRENT DAYLIGHTING ACTIVITIES

Teaching - undergraduate courses in Building Technology, Design Studio graduate courses in Building Technology, Graduate Design Studios

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION UCLA School of Architecture DATE July '79

ADDRESS 405 Hilgard Ave.
Los Angeles, California ZIP 90024

NAME Murray Milne PHONE (213) 825-7370

POSITION/TITLE Professor

CURRENT DAYLIGHTING ACTIVITIES

- SOLAR-2 computer model of direct sunlight penetration for design of fins, overhangs.
- Teaching course on Natural/Artificial Light for architects.

RECENT PUBLICATIONS/PRESENTATIONS

- SOLAR-2 - described in ISES Proceedings 1977 (Orlando conference).

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	X
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
TEACH COURSE	X
BUILDING DESIGNER	X

FIRM/ORGANIZATION University of New Hampshire DATE

ADDRESS Dept. of Electrical Engineering - Kingsbury Hall
Durham, NH ZIP 03824

NAME Joseph B. Murdoch PHONE (603) 862-1357

POSITION/TITLE Professor

CURRENT DAYLIGHTING ACTIVITIES

1. Development of computerized energy trade off studies of skylights.
2. Energy trade off analysis of north facing windows.
3. Analysis of slope glazing systems.

RECENT PUBLICATIONS/PRESENTATIONS

"A procedure for Calculating the Potential Savings in Lighting Energy from the Use of Skylights", Journal of IES, July, 1977.

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION SOLARCH-SOLAR ENERGY RESEARCH UNIT DATE 10/79
THE GRADUATE SCHOOL OF THE BUILT ENVIRONMENT

ADDRESS UNIVERSITY OF NEW SOUTH WALES, SYDNEY.
P.O. BOX 1. KENSINGTON AUSTRALIA ZIP 2033

NAME JOHN A. BALLINGER PHONE (02) 662-3282

POSITION/TITLE DIRECTOR-SOLARCH SENIOR LECTURER

CURRENT DAYLIGHTING ACTIVITIES

1. BEAM SUNLIGHTING USING TRACHING MIRROR SYSTEMS & PRISMATIC REFRACTOR PANELS (DUAL STUDIES) TO LIGHT DEEP SIDE LIT SPACES. JOINT PROJECT WITH N. RODGERS OF LIGHTING RESEARCH UNIT OF ABOVE SCHOOL
2. DEVELOPMENT OF SHADE COEFFICIENT VALUES FOR LOCAL CONDITIONS INCLUDING INSULATION VALUE OF VARIOUS WINDOW TREATMENTS AND LIGHT TRANSMISSION BY EMPIRICAL STUDIES.

RECENT PUBLICATIONS/PRESENTATIONS

Rodger,N.C.,Ballinger,J.A., Dunkerley,C. An Analysis of Innovative Methods in Natural Lighting Architectural Science Review, Vol. 22 No.2. 1979 p. 44-48

Ballinger,J.A. Report on Energy Conservation Research(in Australial Proc. Symp. Solar Energy Univ. of Sydney. Aug.'79 (in press)

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	✓
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	✓
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	✓

FIRM/ORGANIZATION Lighting Research Unit DATE 10/5/79
Graduate School of the Built Environment Faculty of Architecture
ADDRESS University of New South Wales, P.O. Box 1
Kensington Sydney, Australia ZIP 2033

NAME Nancy Rodgers PHONE (2) 662-3080

POSITION/TITLE Director of Lighting Research Unit

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS
AN ANALYSIS OF INNOVATIVE METHODS IN NATURAL LIGHTING
Architectural Science Review, Vol. 22, No. 2, 1979

EFFICIENT DAYLIGHTING Seminar Graduate School of the Built Environment University of New South Wales, September, 1979

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	X
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION U.S.C. INTERNATIONAL CENTER FOR THE STUDY OF EDUCATIONAL FACILITIES DATE 8-4-79
ADDRESS University of Southern California, Waite Phillips Hall, Room 903
3470 University Avenue, Los Angeles, CA. ZIP 90007

NAME Charles D. Gibson PHONE (213) 741-2401

POSITION/TITLE Director

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	
HISTORICAL REVIEW	X
CASE STUDIES	X
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	X
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION University of Washington DATE 8/14/79

ADDRESS 208 Gould Hall JO-20
University of Washington
Seattle, WA ZIP 98195

NAME James Bedrick PHONE (206) 543-4180

POSITION/TITLE Research Assistant

CURRENT DAYLIGHTING ACTIVITIES

Development of UWLIGHT lighting simulation program

Integration of thermal and lighting simulation programs

Development of new daylighting design method

RECENT PUBLICATIONS/PRESENTATIONS

Papers/workshop presentations at 2nd, 3rd, and 4th Nat. Passive Solar Conferences.

Co-author (with M. Millet) of paper to be published in Lighting Design and Application.

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	X

FIRM/ORGANIZATION Department of Architecture DATE 8-3-79

ADDRESS College of Architecture & Urban Planning
University of Washington, Seattle, WA ZIP 98195

NAME Marietta S. Millet PHONE (206) 543-4736

POSITION/TITLE Assistant Professor

CURRENT DAYLIGHTING ACTIVITIES

Finishing 3 year Washington State funded research project, "Incorporation of Energy Conservation Principles into Design of State Buildings" as team member responsible for lighting considerations.

Continuing work on Daylighting Design Method developed with Jim Bedrick.

RECENT PUBLICATIONS/PRESENTATIONS

1979 Millet, M.S., "Daylighting Design Guidelines for the Pacific Northwest", Proceedings of Solar 79 Northwest, August 10-12, 1979, Seattle, WA. In preparation.

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	X
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	X
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION University of Wisconsin - Extension DATE 9/21/79

ADDRESS 432 North Lake Street
Madison, WI ZIP 53706

NAME Mike Aimone PHONE (608) 263-7426

POSITION/TITLE Program Coordinator

CURRENT DAYLIGHTING ACTIVITIES

Tailor a set of daylighting criteria for use by Wisconsin A-E firms, home builders, government offices.

Develop a short course to offer by the Univ. Extension

RECENT PUBLICATIONS/PRESENTATIONS

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	X
CONTROLS-LIGHT	X
CONTROLS-SOLAR	
HISTORICAL REVIEW	
CASE STUDIES	X
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
BUILDING DESIGNER	

FIRM/ORGANIZATION Van der Ryn, Calthorpe & Partners DATE

ADDRESS Drawer F
Inverness, California ZIP 94937

NAME SCOTT MATTHEWS PHONE (415) 669-7155

POSITION/TITLE Principal

CURRENT DAYLIGHTING ACTIVITIES

Design & analysis of daylighting system for one million sq.ft. office complex for TVA. System uses mirrored light shelves, computer operated solar control for atrium roof, and automatically dimmed indirect ambient lighting for maximum daylighting of office spaces.

- model tests
- full scale mockup
- experimental correlation of insolation, sky conditions, measured illumination. For computer simulation of yearly system performance.

RECENT PUBLICATIONS/PRESENTATIONS

- TVA Project Case Study--September 1979 AIA Journal

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	X
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
MIRROR-REFLECTED DAYLIGHT	X
INSOLATION/ILLUMIN. CORRELATION	X
BUILDING DESIGNER	X

FIRM/ORGANIZATION _____ DATE 8/79

ADDRESS 434 15th St. S.E.
Washington, D.C. ZIP 20003

NAME Marguerite Villecco PHONE (202) 547-2349

POSITION/TITLE Consultant to TVA & National Endowment for Arts

CURRENT DAYLIGHTING ACTIVITIES

RECENT PUBLICATIONS/PRESENTATIONS
AIA Journal 9/79

ACTIVITY SUMMARY	✓
AVAILABILITY	
DESIGN METHODS	
CONTROLS-LIGHT	
CONTROLS-SOLAR	
HISTORICAL REVIEW	X
CASE STUDIES	X
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	
USER RESPONSE	
Education &	
Program Support	X
BUILDING DESIGNER	

FIRM/ORGANIZATION John Yellott Engineering Associates, Inc. DATE 8/11/79

ADDRESS 901 West El Caminito
Phoenix, AZ ZIP 85021

NAME John I Yellott, P.E. PHONE (602) 943-5805

POSITION/TITLE President

CURRENT DAYLIGHTING ACTIVITIES

Independent research on sun control by means of external screens, and internal shades, drapes, and Venetian blinds. This work combines control of admission of sun-related heat, and illumination.

RECENT PUBLICATIONS/PRESENTATIONS
"The Phoenix Fenestration Tests of 1977-Thermal Aspects", presented at 1979 Summer Annual ASHRAE Meeting, to be included in Part II, ASHRAE Transactions for 1979.

ACTIVITY SUMMARY	✓
AVAILABILITY	X
DESIGN METHODS	
CONTROLS-LIGHT	X
CONTROLS-SOLAR	X
HISTORICAL REVIEW	
CASE STUDIES	
BEAM SUNLIGHTING	
SKYLIGHTS	
GLARE	
THERMAL/ILLUMIN.	X
USER RESPONSE	
BUILDING DESIGNER	

NOTES NOTES NOTES NOTES NOTES

	DESIGNER/ARCHITECT	AVAILABILITY	DESIGN METHODS	CONTROLS - LIGHT	CONTROLS - SOLAR	HISTORICAL REVIEW	CASE STUDIES	BEAM SUNLIGHTING	SKYLIGHTS	GLARE	THERMAL ILLUMINATION	USER RESPONSE
AIMONE, MIKE			X	X			X					
ALLING, W.R.				X				X		X		
BALLINGER, JOHN A.	X			X			X					
BEDRICK, JAMES	X		X							X		
BURKHARDT, WILLIAM C.			X	X	X			X		X		
BURNETTE, PAULA				X	X		X			X	X	
CARNER, DON				X	X		X			X	X	
DI LAURA, DAVID L.			X	X						X		
DUGUAY, MICHEL							X					
EDWARDS, HOWARD B.												
ELEY, CHARLES	X	X	X									

USER RESPONSE	THERMAL ILLUMINATION	GLARE	SKYLIGHTS	BEAM SUNLIGHTING	CASE STUDIES	HISTORICAL REVIEW	CONTROLS - SOLAR	CONTROLS - LIGHT	DESIGN METHODS	AVAILABILITY	DESIGNER/ ARCHITECT			
	X	X					X				X	X	X	FLYNN, JOHN E.
			X			X	X		X		X			GIBSON, CHARLES D.
		X			X		X				X	X		GILLETTE, GARY
								X	X		X		X	GLENNIE, WILLIAM L.
						X	X							GRIFFITH, J.W.
			X		X						X	X		JONES, BILL F.
		X							X		X			JUROVICS, S.A.
							X				X	X		KINGSBURY, H.F.
		X						X	X					KLAMMT, FRED J.
		X			X			X			X	X	X	KUSUDA, T.
	X	X	X		X	X		X	X		X	X	X	LAM, WILLIAM

	DESIGNER/ARCHITECT	AVAILABILITY	DESIGN METHODS	CONTROLS - LIGHT	CONTROLS - SOLAR	HISTORICAL REVIEW	CASE STUDIES	BEAM SUNLIGHTING	SKYLIGHTS	GLARE	THERMAL ILLUMINATION	USER RESPONSE
LYNES, J.A.		X	X	X	X				X		X	
MC NAMARA, JIM											X	
MATTHEWS, SCOTT	X			X	X			X				
MEHTA, LAHERI		X	X	X	X	X	X	X	X	X	X	X
MILNE, MURRAY	X		X	X	X			X			X	
MILLET, MARIETTA		X	X				X					
RODGERS, NANCY		X						X				
SELKOWITZ, STEPHEN		X	X	X	X		X	X	X		X	
TERNOEY, STEVEN E.	X		X				X	X	X	X	X	
THOMAS, RICK	X		X	X						X		
THRUN, ERIC											X	

Activity Index

USER RESPONSE	THERMAL ILLUMINATION	GLARE	SKYLIGHTS	BEAM SUNLIGHTING	CASE STUDIES	HISTORICAL REVIEW	CONTROLS - SOLAR	CONTROLS - LIGHT	DESIGN METHODS	AVAILABILITY	DESIGNER/ ARCHITECT		
		X				X			X	X		X	VAN DYCK, ROBERT
							X	X					VILLECCO, MARQUERITE
		X							X	X		X	YELLOTT, JOHN I.

BURKHARDT, WILLIAM C.

"Solar U-Number (S-U-N) Modifiers for Skylights", (ASHRAE) , Annual Technical Conf., 6/27/79, Detroit, Mi.
ASHRAE Trans. 1979, Vol. 85, Part 2.

DI LAURA, DAVID L.

"On Calculating the Effects of Daylighting in Interior Spaces",
Journal of the Illuminating Engineering Society, October, 1978.

DUGUAY, MICHEL A.

"Lighting with Sunlight Using Sun Tracking Concentrators", Applied Optics, Vol.18, pp.2081 - 2084, June 1979.

"Transmission of 3-D Images by Means of Lens Guides", Applied Optics, Vol. 16, pp. 1444 - 1446, May 1977.

"Solar Electricity: The Hybrid System Approach"

American Scientist, Vol. 65, pp.422 -427, July 1977.

EDWARDS, HOWARD B.

"Bringing Outdoor Light Indoors", The Virginia Engineer, pp.19, Feb. 1979.

"Optics for Natural Lighting",
NASA Tech. Brief No. LAR- 12333, 1978.

JUROVICS, S.A.

"Solar Radiation Data, Natural Lighting, and Building Energy Minization", ASHRAE Symposium June 1979, Paper No. DE-79-2 No. 1 and IBM LASC Report No. G320-2699.

LYNES, J.A.

"Principles of Natural Lighting", Applied Science Publishers, Middlesex, England, 1968.

LYNES, J.A.

Developments in Lighting (Editor)
Applied Science Publishers,
Middlesex, England

MATTHEWS, SCOTT

"Daylight as a Central Determinant of Design", AIA Journal, pp. 86 - 92, Sept. 1979.

MILLET, M.S., J.R. BEDRICK, G.S. SPENCER & G.B. VAREY

"Lighting and Building Codes for Energy Conservation", Proceedings of NBS/NCBCS Joint conference on Research and Innovation in the Building Regulatory Process, 1978. (in press)

MILLET, M.S., J.R. BEDRICK, G.S. SPENCER & G.B. VAREY

"Design for Daylighting: A New Prediction Technique", Proceedings of the Third National Solar Conference, pp. 121 - 125, Pergamon Press, 1979.

MURDOCH, JOSEPH, B.

"A Procedure for Calculating the Potential Savings in Lighting Energy from the Use of Skylights", Journal of IES, July, 1977.

RODGERS, N.C., J.A. BALINGER, C. DUNCERLY

"An Analysis of Innovative Methods in Natural Lighting", Architectural Science Review, Vol. 22 No. 2, pp. 44 - 48, 1979.

"The Potential of Beam Sunlighting", Lighting Design & Application, pp. 33 - 35, November, 1979.

SELKOWITZ, STEPHEN

"Beam Daylighting, an Alternative Illumination Technique", Energy and Buildings, Vol. No. 1, 1977.

SELKOWITZ, STEPHEN

"Effective Daylighting in Buildings", Parts I and II, Lighting Design and Applications, Feb. and March, 1979.

"Daylighting and Passive Solar Buildings", Proceedings of the 3rd National Passive Solar Conference, pp. 271 - 281, January 1979.

TERNOEY, STEVEN

"Daylighting Design Methodologies", Tech. Report SERI/Passive Technology Branch Golden CO.

TURNER, OSCAR

"Window Management Can Lead to Energy Savings", The National Real Estate Investor, August 1979.

Two Tishman buildings in Orange County designed with photocell controlled multilevel lighting systems. (information package available) Tishman Research Corporation 666 Fifth Avenue, N.Y., N.Y. 10019

YELLOTT, JOHN I., P.E.

"The Phoenix Fenestration Tests of 1977 Thermal Aspects", presented at the 1979 Summer Annual ASHRAE Meeting to be included in Part II, ASHRAE Transactions for 1979.

CONTRACT

Eric Thrun (see directory listing) has been contracted by National Research Council of Canada to prepare:
"A Manual of Practice for Energy Conscious Lighting Design", and
"A Casebook of Energy Conscious Lighting Installations in North America".

APPOINTMENT

A. Peters Oppermann has been appointed Chairman of the Task Group on Daylighting, for the Illuminating Engineering Society.

Opperman is currently:

Director
School of Architecture of Environmental Planning
Kent State University
Kent, Ohio 44242

FORTHCOMING PUBLICATION

Daylighting Resource Package

Much of the information required for daylighting design was developed 20 to 30 years ago and thus is readily available to practitioners today. Near term utilization of daylighting can best be advanced by assembling, revising and updating this body of largely existing daylighting design practices and making it accessible and intelligible to design professionals.

The development and dissemination of this resource package is seen as a process stretching over two years. A partial list of contents for the Daylighting Resource Package is as follows:

- Role of Windows & Skylights in Buildings
- Lighting Fundamentals
- Thermal Fundamentals
- Daylight/Sunlight Sources
- Instrumentation
- How To Do a Daylight Survey
- Daylight Availability Data
- Design Methods
- Daylighting Computer Program

- Lighting Model Studies
- Lighting Systems & Controls
- Illumination Optimization
- Case Studies
- Building Codes

For further information contact:

Windows and Daylighting Program
Building 90 Rm. 3111
Lawrence Berkeley Laboratory
Berkeley CA 94720
415 (486-5605)

CONFERENCES, SEMINARS

"Energy Management in Buildings"

Program includes a section on light and lighting controls.

January 21-22, 1980	Los Angeles
February 25-26, 1980	Washington,D.C.
March 10-11, 1980	Minneapolis

Sponsor:
NewYork State University
School of Continuing Education
Division of Career of Professional Development
326 Shimkin Hall, New York, N.Y. 10003

Daylighting Seminar

A two-day session was sponsored by the New England IES chapter on November 1-2, 1979 in New Hampshire. A possible repetition of this seminar has been suggested for sometime in February 1980, New York.

For more information please contact:

Tom Lemmons
T.L.S. Lighting Consultants
72 Loring Ave.
Salem, MA 01970
(617) 745-6870

Daylighting Summer Institute, 1980

Sponsors: U.S. Department of Energy,
Lawrence Berkeley Laboratory and
University of California, Berkeley

Session to include: A preview of the daylighting learning units contained in the Daylighting Resource Package.

CONFERENCES, SEMINARS, continued

A display of new light measuring equipment, electronic controls and window systems.

A review of new daylighting computer programs and use of an artificial sky for scale model studies.

For additional information, contact:

Windows & Daylighting Program
Bldg. 90 Rm. 3111
Lawrence Berkeley Laboratory
Berkeley CA 94720
415 (486-5606)

CALL FOR PAPERS

Annual IES Conference

Deadline for Complete Manuscript
March 28, 1980

M. Unglert, chairman
I.E.S. Paper Committee
360 Cornell Street
Wyckoff, N.J.

1980 Annual IES Conference
Dallas, Tx.
August 24-29, 1980

REQUEST FOR INFORMATION

Windows, for Energy Efficient Buildings

A publication of the Windows and Daylight Program at LBL. Issue number 3, to be distributed in spring of 1980 will feature Daylighting. We are currently seeking information on: lighting controls, sun controls, glass blocks and skylights. Copies are available free of charge and may be obtained by writing to:

Windows for Energy Efficient Bldgs.
Bldg. 90, Rm 3111
Lawrence Berkeley Laboratory
Berkeley CA 94720
(415) 486-5605