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ECO-NET

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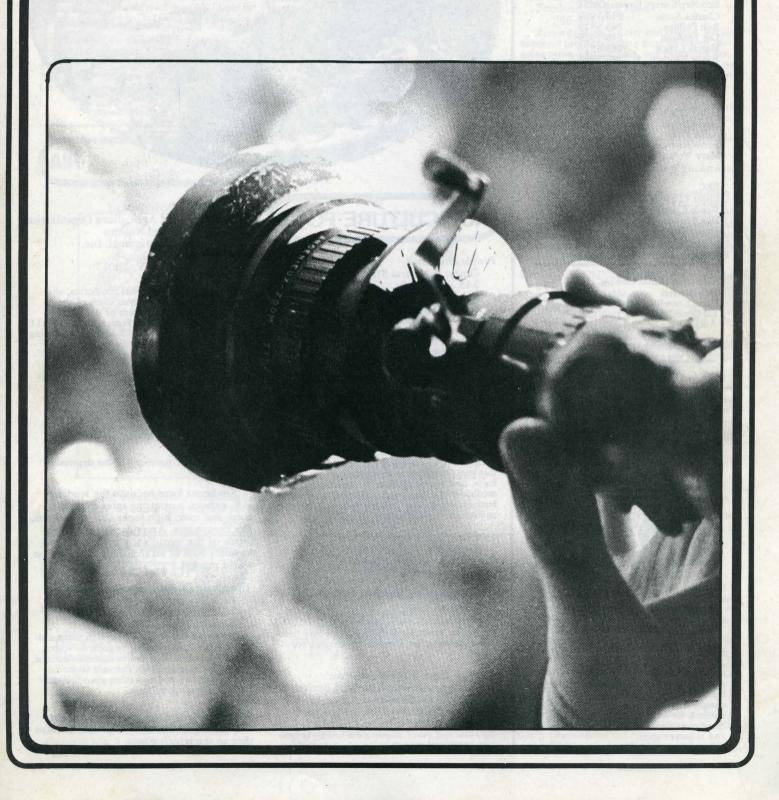
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RAIN

MONTHLY NEWSLETTER OF ECO NET

VOLUME I, NUMBER 2

NOVEMBER 1974



RAIN is a publication of ECO-NET, an environmental education network funded by the Hill Foundation and an Environ- mental Education Grant. The office is at Environmental Education Center, Portland State University, P.O. Box 751, Portland, Or. 97207. (503) 229-4692 Usual deadline for material: 18th of each month
Eco-Net/Energy Center/OMSI Charles Auch 248-5929 Bob Phillips 248-5929 Lee Johnson 248-5929 Marcia Lynch 248-5920 Rusty Whitney 248-5903 Dean Ivy 248-5941 Mary Lawrence 248-5940 <i>RAIN/EEC</i> (503) 229-4692 David Heath (typesetting) Anita Helle Steve Johnson (editor) Mary Wells (layout, design) EEC (503) 229-4682 Randi Krogstad Don Stotler Laura Williamson Initials after entries are those of contributors listed in credits.
This issue thanks also to: Bob Benson Mark Musick Carol Costello Steve Schnieder Ed Goehring Julie Seltz Ancil Nance Jack Eyerly Printing: Times Litho Cover Photo: Ancil Nance
CORRECTION FOR RAIN 1/1, page 13, entry for Coos County Carrying Capacity: "Mary Pederson" should have been "Larry Peterson."
LIFE IS VERY SERIOUS, ISN T IT, NED. SIGH YES. YES.

MEDIA GUIDE

An arrangement with the Center for Urban Education, to publish their excellent, just-completed media survey of Portland, got entangled. We will be sending it out soon to Northwest *Rain* readers. Others may write and request copies.

AGRICULTURE FOOL

People and Land

Center for Rural Studies

345 Franklin St.

San Francisco, Calif. 94102

Periodical, 50¢ an issue. Covering land reform ideas, movements, legislative action. Excellent design and arrangement of information. "What is money? It comes quickly and is

spent and gone. But the land is there forever. What good is money compared with land? If land is torn up, if the water is taken, our people will starve."

(Mina Lansa, Hopi leader)

International Independence Institute, Inc. West Road, Box 183

Ashby, Ma. 01431 (617) 386-5358

Since 1967 providing people with information and consultation about land tenure, reform, land trusts, credit and financing, intermediate technology, and small scale farming and business enterprises. Ask for publications list, and sample newsletter (which is \$10/year).

The Pacific Homestead

Published in the early 1900's out of Salem, Oregon. An agricultural tabloid.

Family Storage Plan **Bookcraft Publishers**

1848 W. 2300 S.

Salt Lake City, Utah 84120

\$1.95. From the Mormons, who have practiced storage as an alternative insurance for vears.

How to Grow More Vegetables Ecology Action of the Mid-Peninsula 2251 El Camino Real Palo Alto, Cal. 94306

Recommended to me by a friend who grew his stuff this year following the book's suggestions with real success.

Ceres

Bimonthly Periodical of The Food and Agriculture Organization of the United Nations Powers International, Inc. 551 5th Ave. New York, N.Y. 10017 \$6/yr.

There is an international food crisis, and here's a periodical giving you some of the stories. Also contact Friends of the Earth, 529 Commercial St., San Francisco, Cal. 94111. Through their Rome Food Eco. project, hoping to present information to the World Food Conference happening in Rome this month.

- Farm Town, A Memoir of the 1930's
 - Photographs by J.W. McManigal; text and additional photos, Grant Heilman.

Stephen Greene Press Brattleboro, Vermont 05301 \$7.95

Photographic portrayal of the depression and rural life.

Soybeans have become the leading U.S. export, surpassing sales of wheat, corn, and even high technology products, like computers. America produces twothirds of the world's soybean crop, and supplies 90% of all soybeans entering the world market.

The Magic of Findhorn Gardens

- Paul Hawken, East West Journal
- 31 Farnsworth St.

Boston, Mass. 02210

Peter and Eileen Caddy through communication with an assortment of gods, or voices, or strange impersonal mental communications, began Findhorn in 1962. Pan and 40-lb. cabbages, harmony and unsettling your normal feelings about agriculture.

When you gets down to your last bean, your backbone and your navel shakes dice to see which gits it.

U.S. Reserves of Grain and Fertilizer as of last spring were the lowest since World War II.

Living Historical Farms Handbook John T. Schlebecker, Gale E. Peterson **Smithsonian Institution Press** Washington, D.C. 1972, 65¢

Order From: Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402

History and agriculture making new contact. Perhaps old mechanical stations. In this 90-page book: Who's Preserving Old Farms (a 20-page list), how-to (funding) and examples.

Oregon Organic Food Regulations went into effect October 1, the first in the country. Write to State Department of Agriculture, Salem, Or. 97310 for legislation/information.

see also Energy, Networks, Positions

Space, Style and Structure: Building in Northwest America. Editors: Thomas Vaughan, Virginia Guest Ferriday. Oregon Historical Society, 1230 SW Park Ave., Portland, Or. 97205 2 vols., 750 pp. Cloth, \$27.50, paper, \$22. \$1 for handling. A beautifully illustrated book, from native America to the present.

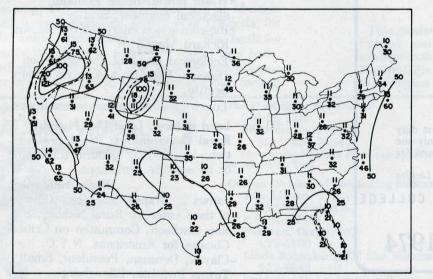
National Federation of Settlements and Neighborhood Centers. 232 Madison Ave. New York, N.Y. 10016

Oregon Architectural Barriers Council Portland Chapter 1954-A SE Hemlock Portland, Or. 97214 282-2667

OABC is concerned with the removal of architectural barriers. Emphasis on surveying buildings to determine accessibility, speaking on architectural barriers, legislation and sexual barriers affecting the handicapped.



AIR POLLUTION POTENTIAL ISOPLETH MAP



Map shows western Oregon and western Wyoming have highest pollution potential in nation, much higher than

ARCHITECTURE

Small Homes Council-Building Research Council

University of Illinois, Champaign-Urbana One East St. Mary's Rd. Champaign, Ill. 61820

Technical notes, research reports, circulars, instruction sheets.

Kitchens for Women in Wheelchairs. Circular No. 841, 76 pp. \$7.95. Applications of Treated Poles and Posts for House Construction.

TN No. 7. 25¢.

heavily industrialized Illinois, Pennsylvania. Key to future livability is proper planning now.

A House for an Indian Family Len Dawson Community and Organization Development

316 Lewis Hall, DW-20 U. of Washington Seattle, Wash. 98105 \$1.00

American Institute of Architects 1735 New York Ave. NW Washington, D.C. 20006 Publications List. Books including: Energy Bibliography, Architecture in Wood, New Towns and Planning, American Architects Directory. .

ART

Archives

The University of Washington is at present compiling information on the work of Northwest craftsmen. Under Washington's 1% for Arts program. Contact in Oregon: Archives, c/o Contemporary Crafts Assoc., 3934 SW Corbett. Portland, Or. 97201,

Metropolitan Arts Commission

522 S.W. 5th, Rm. 1221 Yeon Bldg. Portland, Ore. 97204 248-4569

Funded jointly by city and county. Facili-tation of problem-solving through use of ongoing artist organizations, and extending par-ticipation in the arts by enabling groups to put on "benefits," etc. Also function as liaison be-tween art individuals and groups and government agencies, artists in schools, Saturday Market, Portland Poetry Festival, neighborhood concerts, friends of cast iron architecture are some of the activities partially funded. Also general clearinghouse function, on information about arts.

N.W. Experiments In Art and Technology (E.A.T.) . .

... is an information referral phone main-tained by Jack Eyerly, 223-7898, linking people working in new and traditional art media. N.W. connection for computer, video, film, laser, electronic systems and informa-tion art. Mail address: 1990 SW Mill St. Terrace, Portland, Ore. 97201.

Oregon Committee for Art in Public Places 117 N.W. 5th

Portland, Ore. 97209

Terri Hopkins, coordinator, 227-4710 222-7107

Supports legislation in state of Oregon, Multnomah Co. and Portland . . . and other interested communities Already in effect in Hawaii, Washington state, Seattle and King County, San Francisco, Baltimore and many other areas, this kind of legislation provides that a percentage of public construction money will be used to purchase and commission works of art. \$2.00 membership.

Terri did a study for Oregon Planning Commission recommending specific legislation for state of Oregon based on precedent in other communities. Complete study available from Oregon State Capitol Planning Commission, 494 State St., Rm. 324, Salem, Ore. 97310. Ph.: 378-8163. 50¢ (I.E.)

Oregon Volunteer Lawyers for the Arts. Northwestern School of Law/Lewis &

Clark College

10015 SW Terwilliger Blvd. Portland, Ore. 97219

Leonard D. DuBoff, 244-1181

Assistance to the artist and art associated problems. Legal panels specializing in tax, film, women's problems, contracts, obscenity, property rights, etc. Available to those meeting the requirements for legal aid. Sponsored Conference on Law and the Vis-

ual Arts, March, 1974, with international participants presenting experts in contracts, tax,

obscenity, copyright, international theft, etc. Cassette tapes available from Mono-Sette Systems, Box 02126, Portland, Ore. 97202. Write for catalog.

Currently Prof. DuBoff is teaching a PSU class "Law and the Visual Arts," stressing artist gallery negotiations and contracts.

4:15 pm Workshop Series #2. Repeat of earlier series.

5:30 r	m	Dinner	Old-timey	Music
0.00	JIII	Dunier	Old-unicy	MUSIC

- 7:15 pm Renewable Sources of Energy: Presentation by Lee Johnson (Energy Center, Oregon Museum of Science and Industry, Portland), Ken Smith (Ecotope Group, Seattle), and Evan Brown (Ecotope) **McConnell Hall**
- 8:30 pm Keynote Speech **McConnell Hall** Richard Merrill, biologist from the New Alchemy Institute West; author of Radical Agriculture

Friday, November 22:

- 8:00 am Renewable Sources of Energy: Workshop/Seminars. Demonstration of a complete, complimentary energy system composed of a wind charger, flat plate solar collector, and methane Munson digestor.
 - •Wind Power--Lee Johnson
 - •Solar Energy--Ken Smith
 - •Water power--Bruce Franklin, electrical engineer, Seattle
 - •Bio-conversion energy--Evan Brown, **Richard Merrill**
 - •Ecological Building Practices--Len Dawson, Housing Assistance Group, Seattle.

12:00 Lunch

1:00 pm Land Reform, Land Use Planning, & Rural Communities: Panel presentation, followed by general discussion or by specific workshops.

Hertz Auditorium

- --James L. Draper, Executive Director of the Center for Rural Studies, S.F.
- --Ron Erickson, Committee on Critical Choices for Americans, N.Y.C.
- --Clayton Denman, President, Small Towns Institute, Ellensburg
- --Alan Halvorsen, Kittitas County Action Council, Ellensburg
- -- Don Newey, Farmco Associates, Santa Cruz, California
- -- Tom Bahr, Evergreen Land Trust Association, Clear Lake, Washington (not confirmed)
- --A representative from the United Farm Workers, to be determined.
- 5:30 pm Dinner **Address by Ron Erickson**
- 8:00 pm •Unfinished business Munson and additional informal workshops from earlier sessions.
 - •Videotape of Wendell Berry's speech at the "Agriculture for a Small Planet" Symposium at Expo 74 •Film, "The Richest Land"

Northwest Conference on Alternative Agriculture

Page 4

A forum for people seeking alternatives to current agricultural practices & attitudes



The preservation of fertility is the first duty of all that live by the land . . . There is only one rule of good husbandry ... leave the land far better than you found it." George Henderson, <u>The Farming Ladder</u>

CENTRAL WASHINGTON STATE COLLEGE Ellensburg, Washington November 21 - 23, 1974

PROGRAM OUTLINE

Thursday, November 21:

- 9:00 am Registration in Munson Hall
- 1:00 pm •Opening remarks **SUB** Theatre •Speech by Wilson Clark, environmentalist and author of Energy for Survival: An Alternative to Extinction •Introduction of Workshop Leaders
- 2:30 pm Break
- 2:45 pm Workshop Series #1 SUB These workshops will address themselves to specific agricultural techniques and environmental problems, and will be led by resource people from around the Northwest.

4:00 pm Break

Saturday, November 23:

9:00 am Alternative Marketing, Economics, and Finance SUB

The format and participants for this session are not yet final; Buying groups, farmer-consumer co-ops, crop contracting by co-ops, farmers' markets, community development funds, and organic certification programs will be discussed.

- -- Don Newey, founder of Devcor and Farmco; author of "What Price Miracle?
- --Pat and Dorothy Langon, President of N.W. Organic Food Producers Ass'n. -- Don Shakow, Alternative Finance, Seattle (not confirmed)

12:00 Lunch

1:00 pm OPEN FORUM Munson We'll continue as long as the energy holds out; the facilities will be open through Sunday, November 24.

General Information

Housing: We have reserved the use of Munson Hall, a comfortable old dormitory of 119 beds, for the entire conference period. The facilities consist of 2 beds to a room, 2 rooms to a bath, and are available at a cost of \$6.00 per person, per day. We'd like to see a kind of group feeling



Jefferson High School Portland, Ore.

Ferris Top, director. Catalog of instructional tapes being developed by Jim Simpson. Also hands-on workshops, guest speakers in TV or media. Information on making tapes, call Janice Curtis, 287-1265.

Eugene Filmmakers Cinematheque

Monthly showing of local films, sponsored by the Eugene Community Video Access Center. Contact Phillip Perkins or Scott Fraser at (503) 342-7806 for more information.

The Animator, Quarterly Publication of The Northwest Film Study Center Portland Art Museum SW Park and Madison Portland, Or. 97205 Increasingly good at giving a good range of Northwest film, video information/events.

\$2/yr. individual, \$4/yr. institutional

emerge at this conference, the kind that results when everyone is living and working together. and Munson is the right sort of place for this to happen. We encourage you to make use of it, but if you absolutely can't afford the rooms, let us know and we'll try to arrange some place for you to roll out a sleeping bag.

Meals: While we can't provide all of the meals for the conference period, we are planning to put together Natural-Foods, low cost (about \$1.50) dinners for Thursday and Friday evenings, and we hope that everyone will take advantage of these additional opportunities for exchange.

Child Care: We'll set up a co-operative child care facility, so that those of us with little people can take turns.

Information Center: There will be a series of tables set up in Munson Hall for the distribution and sale of papers, articles, and books. We invite you to bring and display any informative brochures or other printed materials which might be of interest to others at the conference.

This conference is sponsored by Tilth, a newlyformed, non-profit educational organization; taxexempt status is pending. Tilth's address is Poplar Hills, Route 1, Box 64, Palouse, Washington 99161.

The Creative Outlet Journal 201 SE 12th Portland, Or. 97214 (503) 233-3654 News about activities of the public video access center. Free.

Oregon Division of Continuing Education Film Library

1633 S.W. Park Ave.

P.O. Box 1491

Portland, Ore. 97207

229-4800

Linda Bohnaker (DCE film librarian), 229-4842

Distributes films to anyone in the states of Oregon, Washington, California, Idaho, Montana, Arizona, Nevada, Wyoming, Colorado, New Mexico, Utah, Alaska, Hawaii.

Large free catalog, Films 1974-75. Listed by title and subject. Generally very inexpensive rental. Updated listings, new films, newsletter Film Library News also free.

Co-sponsoring with NW Film Study Center, series of 5 programs, "The Identity Crisis," fo presentation free to adult public audiences in for 4 Oregon communities:

Newport-Dec. 5, 12, 19, 26, Jan. 2. Contact Bob Adolph, Ore. Mental Health Assn. 265-8511.

Pendleton-Jan. 2, 9, 16, 23, 30. Contact Larry O'Rourke, Blue Mtn. Comm. College, 276-1260.

Portland-Nov. 21, Dec. 5, 12, 19, 26. Contact Bob Sitton, NWFSC, 226-2811

Roseburg–Dec. 19, 26, Jan. 2, 9, 16. Con-tact Donna Warlace, Douglas Co. Library, 672-3311.

Programs developed by National Project Center for Films and Humanities (J.E.) List of video-tapes produced for lowenergy living. Tom Detwyler Dept. of Geography U. of Michigan Ann Arbor, Mich. 48704 (313) 764-0342 List prepared for course taught at university.

Environmental Education: A Beginning Division of Tech. and Env. Ed. Office of Public Affairs **U.S.** Office of Education Washington, D.C. 20202 Free Rental Film. (L.W.)

see also Media, Information



A recent study of urban communes in Minneapolis, sponsored by the American Assoc. for the Advancement of Science, found that energy use was lower in urban communes than in conventional urban homes.

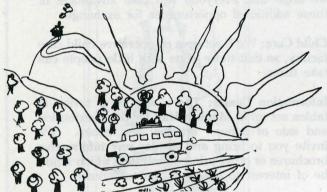
Center for Urban and Regional Studies University of North Carolina Chapel Hill, N. Carolina 27514 Opinion survey/study of quality of life, from 7,000 people in 36 "new" communities. continued on page 7

Page 5

ECONET REPORTS

EEC

Responses to Rain have been very encouraging. The first issue was distributed to 3,000 people. At least 75 people responded by letter or phone in the best way possible: by contributing information. As the SHARE program develops we will try to develop readership response, in order that we can put people in touch with one another, and with helpful information.



ENVIRONMENTAL FIELD TRIPS

I am currently designing for the Environmental Education Center, a list of field trips which will help sensitize young people to the idea of man's interrelationship with nature. The proposed age group these trips would be designed for would be grades 6-12.

Concept areas I hope to cover would include: Clean air, levels of the biosphere, auto emissions, factories, industry, pollution control, inspection of rivers, lakes, sewage outfalls, fish and other aquatic life, dams and their effects, finiteness, recycling, the dump, the biological food chain, the effects of DDT and other pesticides, wildlife and their needs, endangered species and why, a look at the land, man's use of the land, erosion and its effects on rivers, fish, and the quality of soil, BLM, LCDC, OCCDC, the forest and effects of clear cuting, vegetation types and roles in the forest, Forest Service, the concept of growth, freeways and their effects, invitations to growth (sewer lines, new housing) DEQ, CRAG, historic landmarks and their significance.

-Nancy Randall

ENVIRONMENTAL EDUCATION IN OREGON

Last March, EEC volunteer Olivia Froebe completed a survey of environmental education in Oregon. These are some results:

• 36 school districts, IED, state, and federal government staff, and private people in Oregon are serving as advisors or consultants to environmental education projects. (We're sure this number is larger.

• 34 high schools or junior high schools out of 227 in Oregon offer courses in environmental studies. This year, with new graduation requirements, this number is probably larger.

• 39 special projects or programs are available to Oregon primary and secondary students (not counting outdoor schools) ranging from ecology days, to nature study areas, to school yard projects.

• 3 K-12 environmental education programs exist or are being

planned:

Ashland District No. 5 contact: Vern Speirs

Parkrose District contact: Max Brunton

(K-12 Student techniques in Environmental Problem Solving)

Eugene District 4J is developing a K-12 program with the following themes: K-4 Sense of Wonder

4-7 Uses and Abuses of Our Local and World Environment

8-12 "Responsible action will be pursued through awareness and action on local environmental problems."

If you have additional information about environmental education in Oregon which will help us complete our files, please let us know. —Laura Williamson

ENVIRONMENTAL EDUCATION CONFERENCE

Laura, Anita, and Steve are working on a workshop for the conference, "Environmental Education Public Relations Plan." Attempting to provide information and people in the general area of media information dissemination and program support. (See Calendar.)

ECO-NET MEETING

The follow-up to the Boise meeting in September will take place in Spokane on November 15 and 16, to discuss the alternatives available for the establishment of an environmental education/information network in the Northwest.

DON STOTLER? WELL, following one of Don's threads (his desk calendar) we found he attended 57 meetings in October.

Energy Center

The information has begun to flow, and some of that is visible in this issue of *Rain*. Marcia Lynch has developed the Energy File Folder system, for general correspondence, energy centers, energy people, bibliographies, etc. Also a complete set of folders corresponding to subject heading index in questionnaires which were sent out in August.

The revised questionnaire will be out in the first week of November.

A primary contact has been established with Julie Selty in the Oregon State Office of Energy Conservation and Allocation. Julie is developing energy information, especially designed for legislators, and it is hoped the Energy Center may provide the Energy Office and state government with abstracted or exhaustive information on energy topics. Still available from Marcia Lynch, c/o Energy Center are in-

Still available from Marcia Lynch, c/o Energy Center are information sheets on wind, solar, and methane energy. Also copies of speeches made by Ray Barrett, Director Education Department, OMSI, and Lee Johnson, Energy Center, at the Federal Energy Administration's Project Independence Conference.

PUBLIC ACCESS MICROFICHE is a project to provide individuals and public interest groups with the ability to organize, film and share a common information base. After two months of work, Graham Hubenthal and Lee Johnson have found advantages in scope, cost and speed over conventional methods of information movement. Although microfiche cards can be designed for any topic, the authors have begun to develop an information bank on "energy and the environment" with a view towards duplicating this information file for use by new energy-environment information centers. Equipment for this project has been provided by Bell and Howell Microfilm Products, Portland. For a copy of *A Proposal to Supply the Missing Link for an Information Network: Microfiche*, write Marcia Lynch, Energy Center, Oregon Museum of Science and Industry, 4015 S.W. Canyon Road, Portland, Ore. 97221, or call (503) 248-5900.

SOLAR COLLECTOR MANUFACTURERS & DISTRIBU-TORS, a list of 35 companies selling solar panels for space and hot water heating, has been prepared by Lee Johnson of the Energy Center and is now available for distribution. Send \$1.00 to Marcia Lynch, OMSI Energy Center, 4015 S.W. Canyon Rd., Portland, Ore. 97221.

SHARE 1

Rusty Whitney and Bob Stilger have worked out arrangements for the first use of the experimental Eco/Net OMSI computer program, SHARE, which will enable people at 76-Week to get in touch with each other. (See *Rain* No. 1.)

NW ALTERNATIVE AGRICULTURE CONFERENCE

Lee Johnson and Ken Smith have pulled together the Alternative Energy Program for the conference (See pgs. 4 & 5, this issue.). Also, the EEC is helping Mark Musick, one of the organizers, develop a people-to-people directory of the participants in an attempt to create a permanent network of agriculture and energy folk.

November, 1974 COMMUNITY continued from page 6

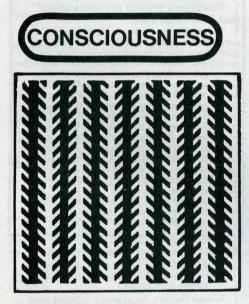
In January, 1933, the Literary Digest reported . . .

... that there were 140 barter exchanges in 29 states, and estimated that 200,000 unemployed in California alone were obtaining the necessities of life by trading a day's work for goods.

Midwest Research Institute

\$311,000 grant to study the technical/ economic feasibility of using solar energy to generate electricity in communities of up to \$100,000 people.

see also Architecture, Associations



Mental Health Association of Oregon 718 W. Burnside Portland, Ore. 97209 (503) 228-6571

Metro Education Bulletin, Bulletin Board of groups, conferences, sessions monthly in Portland area: transactional analysis, selfawareness, encounter, etc.

Bioenergetics Northwest

3938 First Ave NE

Seattle, Wash. 98105

Consciousness expansion and equilibrium development through talking to/working with body processes. (See Calendar.)

see also Agriculture

EDUCATION

Oregon Museum of Science and Industry, Classes for Children

Began November 9. Write or call for details 4015 SW Canyon Rd., Portland, Or. 97221. 248-5900.

Woodcarving Class.

Now under way at Western Forestry Center. Presented by them and Western Woodcarvers Association. Eventual showing of work done.

- Western Forestry Center 4033 SW Canyon Rd.
- Portland, Or. 97221

Environmental Symposium Series

Environmental Education Information Kit

A really fine package of free materials developed by Mary Feidt and Eric Boge. No longer available, so below is listed the individual materials included and where they may be gotten (many in multiple copies and free):

- "Environmental Education in Action," Soil Conservation Magazine, U.S. Dept of Agriculture, Washington, D.C., August, 1973.
- An Outline for Teaching Conservation in Elementary Schools, U.S. Department of Agriculture, Soil Conservation Service. Order No. PA-268.
- Outdoor Classrooms, on school sites. U.S. Dept. of Agriculture, Soil Conservation Service. No. PA-975.
- Publications Catalog, Rodale Press, Organic Park, Emmaus, Pa. 18049. (*The* organic gardening people)
- Working for a Better Environment, National Wildlife Federation, 1412 16th St., Washington, D.C. 20036.

(Explains philosophy and programs of the N.W.F. Ask also for description of "discovery units.")

America Was Trees, from Scott, Foresman, and Co., 855 California Ave., Palo Alto, Cal. 94304.

Short reprint on environmental movement history, excerpted from U.S. History: Search for Freedom.

- Information Services Catalog, National Center for Resource Recovery, Inc., 1211 Connecticut Ave. NW, Washington, D.C. 20036 Recycling education curriculum.
- Environment and Outdoor Education Materials Co., Dowling, Mi. 49050. Surprisingly practical How-To books.

\$2.00 for complete catalog. Free two-page flyer.

Geography in an Urban Age, Macmillan Co., School Division, 866 3rd Ave., New York, N.Y. 10022.

Especially good urban environment approach.

- Arthur Barr Productions, P.O. Box 7-C, Pasadena, Calif. 91104. Environmental Films.
- Instructional Dynamics, Inc. 166 E. Superior St., Chicago, Ill. 60611. Learning cassettes.
- Scott, Foresman, 855 California Ave., Palo Alto, Cal. 94304. Booklet size materials.
- Environmental Education Bibliography Prepared by Environmental Symposia Center, available from Environmental Education Center.
- Environmental Games and Simulations, compiled by Tom Eckman, Environmental Symposia Center, available from Environmental Education Center.
- Institute for Environmental Education, 8911 Euclid Ave., Cleveland, Ohio, 44106. Ask for general and publication information.
- SIRS, Gaylord Bros., Inc., P.O. Box 61, Syracuse, N.Y. 13201

Publishers of social issue curriculum, based mostly on reprints from magazines.

- Do It Yourself Environmental Handbook, Dayton Museum of Natural History, 2629 Ridge Ave., Dayton, Ohio 45414. \$1.95.
- Ecological Action Check List, Ecology Center of So. Calif., 2315 Westwood Blvd., Los Angeles, Cal.
- Schloat Productions, A Prentice-Hall company, 150 White Plains Rd., Tarrytown, N.Y. 10591.

Filmstrips for sale.

- Environmental Choices, Metropolitan Life, P.O. Box 232, New York, N.Y. 10010 A multi-media inquiry and decisionmaking approach. \$18.50.
- Environmental Educators, Inc., 1621 Connecticut Ave. NE, Washington, D.C. 20009. Publishers of the very good monthly report. \$15/yr.
- Environments for Learning, Box 4174, Madison, Wisc. 53711

David Archbald and Noel McInnis (former Director of Center for Curriculum Design). Some of the best whole-systems environmental materials.

- "Toward a Higher Education" Issue devoted to that, from East West Journal, Sept., 1974, 50¢ 31 Farnsworth St. Boston, Mass. 02210
- Encounter with the Northwest Environment, Natural and Urban Tony Angell, Coordinator Available from:

Superintendent of Public Instruction Olympia, Wash. 98504

The best guide to Northwest environment I've ever seen. A beautifully designed and thought out guide to ecological systems, importantly the first to include rural, wild and *urban*. The actual descriptive tour is based in Washington.

Earth Journal

Minnesota Geographic Society 1501 S. 4th St. Minneapolis, Minn. 55404

Bi-monthly, \$3 annually, 50¢/issue The Tao, Experiment in Common Life, Lindbergh, Poetry, Aphrodisiacs, Breastfeeding, Woodworking, Herbs, Still a Small Planet, Methane. Excellent

Classes 76

Jeff Hanson

Whitworth College

Spokane, Wash. 99251

Whitworth College is an information center for exchange/dialogue developed out of a May, 1974, meeting. "The basic idea of the Classes '76 model is

"The basic idea of the Classes '76 model is that schools will study the *fundamental* questions which are now challenging education and only when this has been done would they look at such issues as grades, types of courses, year round education, etc., etc."

The Whitworth Communication Center will operate using a toll-free 800 telephone line, information being logged on terminal computer lines. Also use of newsletter on Classes '76 issue. National briefing session, Nov. 1, 1974, Expo.

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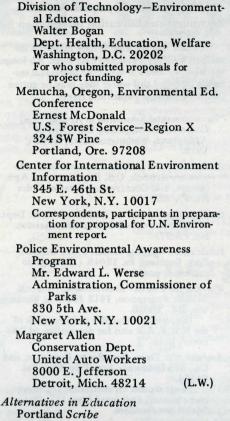
EDUCATION continued from page 7 **Columbia Educational Center** 5323 SE 47th Portland, Ore. 97206 Founded in 1973. National conferences on education (see Calendar). Publications, proposal development, program evaluation, dissemina-tion. Especially interested in school within school programs.

Environmental Education Networks:

Environmental Ed. Reporter 1621 Connecticut Ave. NW Washington, D.C. 20009 \$18/yr. Alliance for Environmental Ed. Jack Snell, Exec. Director 635 S. Main St. South Bend, Ill. 46673 Conservation Education Assoc. Jane Westerberger, Pres. USFS Office of Info. 630 Sansome St. San Francisco, Cal. 94111 Western Regional Env. Ed. Council **Randy Schaefer** 721 Capitol Mall Sacramento, Cal. 95814 Assoc. for Environmental and Outdoor Ed. 2428 Walnut Blvd. Walnut Creek, Cal. 94596 Institute for Environmental Ed.

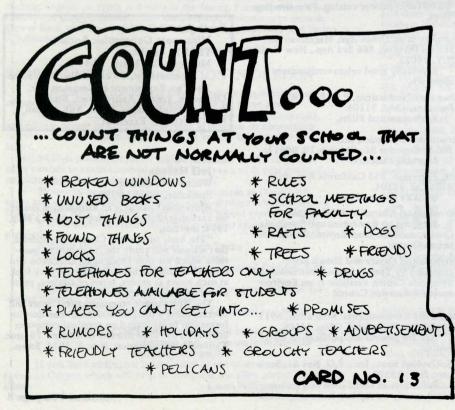
8911 Euclid Ave. Cleveland, Ohio 44106 I.C.E. 1927 Main St. Green Bay, Wis. 54301

Environmental Ed. curriculum development.



Oct. 5-11, 1974 A good issue on alternative education projects and ideas in the Portland area. Include 50¢ in request.

see also Audio-Visual, Eco-Net, Information, Social Services



ENERGY

National Energy Information Center Federal Energy Administration 4508 New Post Office Bldg. 12th and Pennsylvania Ave. NW Washington, D.C. 20461

Statistics, bibliographic materials, abstracts, studies "Petroleum Situation Report" (weekly); Energy Indicators (monthly); "Petroleum Im-port Weekly (weekly). No charge to date for enquiry. (202) 961-8685 or (202) 961-8486.

Continued growth produces goods that have to be sold.

Promotion is so essential to marketing that corporations sink \$20 billion every year into advertising. But even with massive advertising campaigns, markets become saturated and other techniques such as planned obsolescence are necessary to create more markets. In addition to glutting the domestic market, sales increases can be obtained by promoting new foreign markets, especially in "underdeveloped" countries. Many parts of the world are being exposed for the first time to the gadgetry owned by most Americans, creating new demands for more refrigerators, radios, televisions, cars, motorcycles and air conditioners, and placing new demands on the earth's already over-bur-

dened resource pool. (Operating Rules for Planet Earth, Sam Love. Copies from F.O.B. Clearinghouse, Senator Bldg., Portland, Or. 97204)

National Governors' Energy Project 1150 17th St. NW

Washington, D.C. 20036 (202) 659-9644.

Energy Project. An attempt to index energy research projects by state. Legal, economic, conservation, agriculture, information.

Hot Water

350 E. Mountain Drive Santa Barbara, Cal. 93108 March, 1974, \$2.00

Storage tanks, soil collections, wood heat tubing units; how-to information on simple hot water systems for home use. Neat illustrations and general design.

Solar Energy Research Information Meet-ing of NSF/RANN Grantees.

National Center for Energy Management and Power

University of Pennsylvania

Philadelphia, Pa.

Collection of papers presented March, 1973, by National Science Foundation-funded

solar energy research projects. NSF/RA/N-73-075

Order from: Documents

NTIS

U.S. Dept. of Commerce Springfield, Va. 22151

Solar Heating and Cooling Demonstration Act of 1974.

Recently signed into law. Congress has authorized \$60 million for five-year project, split between NASA and HUD; the idea, to develop ways to use solar power to heat and cool buildings at a more reasonable cost. A separate bill to give as much as \$1 billion for research and development has passed the Senate.

Imperious Caesar, dead and turned to clay, Could stop a hole to keep the wind away.

-Hamlet

Solar Energy for Pacific Northwest Buildings, Revised ed. John S. Reynolds Center for Environmental Research University of Oregon Eugene, Or. 97403 (503) 686-3662

Soon to be published. Additions include BTU/SF solar radiation for Oregon by month; charts to enable self-evaluation of site's suitability for solar energy collection in winter; some information on another solar house (British Columbia) and some additions to bibliography.

Forest Economy Council Report NW Chambers of Commerce/Forest Products 824 S.W. 5th Ave. Portland, Ore. 97204 Sometimes information on lower energy use, methanol, recycling. Geothermal Energy Conference

Reports, papers, presented at the October Klamath Falls conference from: Oregon Dept. of Economic Development 1100 Yeon Bldg, Portland, Ore. 97204

Energy Perspectives

Monthly publication of the Battelle Energy Program, 505 King Ave., Columbus, Ohio, 43201.

Descriptions of various energy systems, other misc. energy-related information and calendar.

Energy-Use Study of Minerals Battelle Columbus Laboratories 505 King Ave. Columbus, Ohio 43201

\$611,000 contract from U.S. Bureau of Mines to provide comprehensive information on energy consumption by type and quality for each phase of the metals and mineral industries, except fossil fuels, from mining to primary product, including energy required for transportation.

Energy Research and Planning. Office of the Governor 185 – 13th St. NE

Salem, Ore 97301

The two most recent position papers, "Waste Resources Management" and "The Ultimate Meaning of Inflation."

Information about Extension of Emergency Petroleum Allocation Act of 1973. Janet McLennan. Interim Committee on Environment, Agriculture, and Natural Resources Salem, 378-8690.

(M.L.)

Alternative Energy Fair, Planned for Spring, '75. Kurt Hermanns, Vocations for Social Change Fairhaven College. Bellingham, Wash. 98225 (206) 676-3686 (M.L.) Energy Research and Technology Mr. William H. Wetmore, Director Office of Systems Integration and Analysis Rm. 419, 1800 G Street NW

Washington, D.C. 20550 (202) 632-4032

Layers of Clothes Hot Bath

Storm Windows Closing Rooms Shade Planting

Flannel

Blankets

Biking Exercises

Candles

Rugs

Warm Bricks

Attic Ventilation

Hand Warmers

Deep Breathing Pipe Insulation

Hot Water Bottle

Weather Stripping

Night Setback Wall Insulation

Compost

Ear Muffs

Shutters

Long Johns

Heat Rises

Furnace Filters

Sealing Cracks Air Lock Entrances

Mittens Quilts

Soup

Straw

Dirt

Earth Heat

Calk

Abstracts of energy research contracts from National Science Foundation. Part of the Smithsonian Science Information Exchange. For other energy categories, contact Mr. Richard J. Green, Division of Advanced Energy Research and Technology, Room 401, 1800 G St. NW, Washington, D.C. 20550. (202) 632-5726. Directory of Current Energy Research Oak Ridge National Laboratory P.O. Box X

Oak Ridge, Tenn. 37830

Maintaining a computerized inventory of energy related research in the U.S. 4400 entries to date.

Energy, From Magic to Entropy.

36p. monograph from Phil Pennington (Knowledge for Use, see Vol. 1, No. 1).

Relationship of Entropy, information, and energy. 504. 3066 SW Flower Terrace, Portland, Ore. 97201.

continued on page 10

HEAT-WINTER CONSERVATION

Tips for Energy Savers. Federal Energy Administration, Washington, D.C. 20461. Multiple Copies from: Lee Johnson F.E.A. Region 909 First Ave. Seattle, Wn. 98174 (206) 442-7285 Coping with the Energy Crisis. From: Office of Economic Opportunity Executive Office of the President Washington, D.C. 20506 83 page booklet, designed for use by social service organizations especially, e.g., how to get heating oil. Distributed during shortages. Living with the Energy Crisis Small Homes Council-Building Research Council University of Illinois, Champaign-Urbana 1 East St. Mary's Rd. Champaign, Ill. 61820 Index No. C1.5. 25¢. Conservation tips. Statistics on heat saved through 100 Ways to Stay Warm. New York Magazine, November 26, 1973, p. 42. A brainstorm from Irish tea to hot water bottles. **BPA Energy Alert. Energy Conservation Staff Bonneville Power Administration** 1002 N.E. Holladay P.O. Box 3621 Portland, Or. 97208 Information bulletin, mostly inhouse. Energy Conservation Guide for Industry and Commerce. National Bureau of Standards Program. Order NBS Handbook 115 from: Superintendent of Documents U.S. Government Printing Office Washington, D.C. California's Electricity Quandary. RAND Corporation Publications Division 1700 Main Street Santa Monica, Cal. 90406 Reports from study of California's electrical demands. The general picture drawn by RAND is no technical solution to meeting increased energy demand, with conservation as primary solution. (3 volumes. Write for details.) Alternative Sources of Energy. Rt. 2, Box 90-A Milaca, Minn. 56353 Lots of excellent material on energy systems in general and conservation of resources. February, 1974, issue, article on energy conservation in existing housing by Eugene Eccli. Development of an Instructional Resource Package on Energy Allocation, Depletion and Conservation. National Science Teachers Association 1201 16th St. NW Washington, D.C. 20036 John Fowler, NSF Grant, 833-4283.

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ENERGY

continued from page 9

The Energy Information and Conservation Center

Washington State Dept. of Emergency Service

4220 East Martin Way Olympia, Wash. 98504 (206) 753-5420

Monthly newsletter, transportation, energy research, shortages, conservation.

Living Lightly: Energy Conservation and Housing, Tom Bender

Copies from: Living Lightly Governor's Office of Energy **Research & Planning** 185 13th St. NE Salem, Or. 97310 An excellent how-to guide to low energy

survival, conservation.

Simple-Minded Refrigerator.

Developed with a Natl. Science Foundation grant at Reed College in Portland, directed by Jean DeLord, uses mirrors to catch the sun's heat and warm a generator, which is filled with ammonia and salt. The sun's heat boils off the ammonia, which is condensed as a pure liquid; evaporates in the refrigerator; and is absorbed again as pure liquid. Then the positions of the generator and the absorber are reversed! And so on.

Residential Consumption of Electricity, 1950-70.

Oak Ridge Ntl. Laboratory, ORNL-NSF Environmental Program

P.O. Box X

Oak Ridge, Tenn. 37830

Through implementation of 5-6 changes in electric consumption, a reduction of electrical energy use by 30-40%. ORNL-NS F-EP-51.

Solar Energy Seminars.

Center for Environmental Research University of Oregon

97403

(503) 686-3662 (John Reynolds) or 686-5128 (Naomi Revzin)

Nov. 5 - Summary of federal legislation on solar energy

Nov. 12 - Notes from U. of Wisconsin seminars

Nov. 19 - Proposed Oregon solar energy legislation

Nov. 26 - Notes from Wisconsin seminars

Lifestyle Index, Albert J. Fritsch, Barry I. Castleman. 1974. \$1.50

Center for Science in the Public Interest 1779 Church St. NW Washington, D.C. 20036

A really nifty energy use analysis of lifestyle: it is "designed to demonstrate how much energy each American uses each year, and to show how his or her standard of living compares with that of average persons living in other countries of the world.

Biological Conversion of Organic Refuse to Methane, Semi-Annual Progress Report, December, 1973. 95 pp. University of Illinois, Champaign-Urbana Dept. of Civil Engineering Urbana, Ill. 61801. NSF/RANN/SE/GI39191/PR73/4 Order from: Documents NTIS U.S. Dept. of Commerce Springfield, Va. 22151

Environmental Education Projects Funded by EEA Act of 1970, Energy Related

Jeff C. Jeffers Alaska Department of Education **Environmental Education Office** Juneau, AK 99801 Tel: 907-465-2800

Oil Pipeline

Richard Garcia

Northern California Committee for Environmental Information

P.O. Box 761 Berkeley, CA 94701 Tel: 415-642-7191

Development of resource materials for use at secondary school level on the environmental significance of pest control practices and of alternative sources of energy.

NUCLEAR POWER BACKGROUND READING

George Carter Trojan Visitors Information Center Rt. 2, Box 120 Rainier, Oregon 97048 (503) 556-4741

Nuclear Power and the Environment-Questions and Answers, American Nuclear Society, 1973; 64pp., \$1.50, prepaid. Available from ANS, 244 East Ogden Ave., Hinsdale, Ill. Bulk copies: 100-

499 @ 58¢, prepaid; 500-1,000 @ 45¢, prepaid.

In a clear and concise question and answer format, this publication covers all the basic issues in this area, including radiation, thermal discharges, transportation, safety and siting, and considers such future sources of electric power as the breeder reactor and thermonuclear fusion. Includes illustrations, charts and an extensive list of references.

Sources of Information on Nuclear Power and the Environment, Power Planning Committee, Pacific Northwest River Basins Commission, P.O. Box 908, Vancouver, Washington, 98660; September, 1973; 28pp., n/c for single copies.

Will aid individual in locating nontechnical sources of information available on nuclear power and the environment in the northwest. It includes: (1) a listing of the principal agencies responsible for regulating nuclear power development; (2) a selected bibliography of publications; (3) a listing of additional sources.

Review of Power Planning in the Pacific Northwest, Calendar Year 1973, Power Planning Committee, Pacific Northwest River Basins Commission, P.O. Box 908, Vancouver, Washington, 98660; May, 1974; 112pp., n/c for single copies.

Describes new and continuing programs related to power and conservation in the Pacific Northwest. Covers power resources existing, under construction and feasible for future development.

Hydro-Thermal Power Program: A Status Report (for the Pacific Northwest), Bonneville Power Administration, 1002 N.E. Holladay, Portland, Oregon, 97232; 60pp., n/c for single copies.

Progress to date and problems foreseen in the future are the substances of this report. Particular attention is given to environmental considerations.

Northwest Power Pool, Northwest Electric Light and Power Association (NELPA) Mohawk Building, Suite 200, 222 S.W. Morrison Street, Portland, Oregon, 97204; 8pp., n/c.

A good simple answer to "What is the Northwest Power Pool?" It covers the history, how it works, and the benefits gained from the interconnection of its member utilities.

Reactor Safety Study, An Assessment of Accident Risks in U.S. Commercial Nu-clear Power Plants, Summary Report-Draft WASH-1400. U.S. Atomic Energy Commission, Oak Ridge, Tennessee, 37830; August, 1974, 30pp., n/c for single copies.

The study was performed under the independent direction of Professor Norman C. Rasmussen. The objective was to make a realistic estimate of public risks that could be involved in potential accidents in commercial nuclear power plants. It compares these with non-nuclear risks to which our society is already exposed. The methods used to develop these estimates are based on those developed by the Department of Defense and the National Aeronautics and Space Administration.

Power Generation Alternatives, City of Seattle, Department of Lighting, Gordon Vickery, Supt., Seattle, Washington, 98100; 176pp., \$5.00.

The different energy resources and methods of utilizing them for the generation of electricity are explained. Associated environmental effects, means of storing energy and other factors are described so the reader will be able to evaluate alternate methods of supplying electricity.

William V. Mayer Biological Science Curriculum Study P.O. Box 930 Boulder, CO 80302 Tel: 303-666-6558

Development of an energy use-systems ecology instructional module for secondary school students.

Howard D. Roark The University of Colorado Division of Continuing Education 970 Aurora Boulder, CO 80302

Development of learning modules on exploration of future energy sources, designed for use at senior high and college levels.

Mrs. Sidney E. Sweet League of Women Voters Education Fund 1730 M Street, NW Washington, D.C. 20036 Tel: 202-296-1770, x211

Community education project involving integration of existing energy and land use resource material and technical assistance to local citizens groups in developing and implementing community environmental education programs around these issues.

Alberta C. Slavin Utility Consumers' Council 7710 Carondelet, Suite 503 Clayton, MO 63105 Tel: 314-726-2500

Workshop on issues surrounding alternative energy sources and environmental quality.

Charles Kopman Sierra Club Ozark Chapter P.O. Box 12424 Olivette, MO 63132 Tel: 314-727-2311

Workshops on problems, benefits and environmental consequences of nuclear power production and utilization in local area.

Otto Nuehardt Custer County District High School 20 South Center Miles City, MT 59301 Tel: 406-232-3840

Secondary program involving students in field and classroom studies of environmental issues surrounding local coal mining industry.

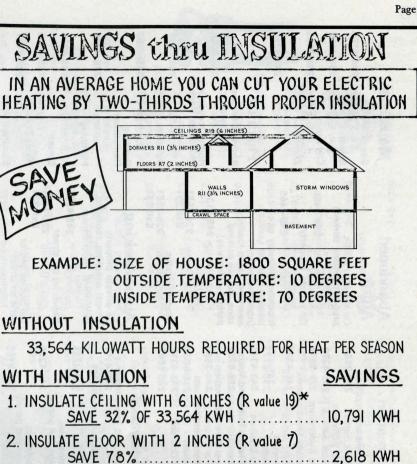
Morton A. Tavel Vassar College Dutchess County Environmental Association Raymond Avenue Poughkeepsie, NY 12601 Tel: 914-452-7000, x270

Workshops on effects, issues and options related to nuclear energy production in mid-Hudson Valley area.

Duane E. Richardson Northwest Regional Education Lab. **Computer Technology Program** 710 S.W. Second Ave. & Lindsay Blvd. Portland, OR 97204 Tel: 503-244-3659

Development of curriculum resource materials for secondary students using computer gaming/ simulation approach to study dimensions of energy issue.

Donald W. Stotler Oregon Museum of Science and Industry 4015 S.W. Canyon Road Portland, OR 97221 Tel: 503-224-9500



- 3. INSULATE WALES WITH 3½ INCHES (R value 1) SAVE 11%..... 3,677 KWH
- 4. INSTALL STORM WINDOWS (260 square ft. glass) .4,562 KWH SAVE 13.6%

* THE "R" VALUE AS APPLIED TO INSULATION, IS THE RESISTANCE TO HEAT TRANSFERENCE THROUGH THE INSULATING MATERIAL

Community education project focussing on energy-related issues, piloting environmental education resources center concept for museums of science and technology.

Kenneth Hammond **Central Washington State College Environmental Studies Program** Ellensburg, WA 98926 Tel: 509-963-1401

Development of case study packets for secondary level use addressing energy issues and other selected environmental problems.

Rev. Melvin Tracy Science-JFK Preparatory School Box 109 St. Nazianz, WI 54232 Tel: 414-733-2111

Secondary school project for students involving development of working models of alternative energy production and utilization for com-munity education.

Maurice F. Griffiths Natrona County School District No. 1 8th and Elm Streets Casper, WY 82601 Tel: 307-237-9571, x28

Secondary project involving high school students in comprehensive study of aspects of energy conversion plant siting in a local area designated for that purpose.

Soap Making: A How-To Sheet From: Recycling Switchboard Dept. of Environmental Ouality Call 229-5555 in Portland

see also Government, Recycling, Architecture, Agriculture, Eco-Net

age 12																												r	Nove	embe	r, 1	974			
		248-4165	248-4165	248-4165	248-4250		4	248-4066		248-4230		248-4230		248-4230	740 4775	C48-4222	248-4165	248-4447		248-4200	248-4230	340 41CE	C014-04-7	248-4250		248-4250		248-4292		248-4072		248-4120	248-4200	248-4320	
	Maps	City Engineer Street	City Areas	Cuty Engineer Zoning	Bureau of Planning	Permits	Business License	Bureau of Licenses	Home Occupation (Business) Permit	Buildings	Building Bureau of	Buildings.	Demolition Bureau of	Buildings	Bureau of	Sewer	City Engineer	Water Service Water Bureau	Electrical Work Bureau of	Heating	Bureau of Buildings	House Moving	Conditional Use	Bureau of Planning	Zone Change Bureau of	Planning	Review Bureau of	Planning	Solicitations	Bureau of Licenses	Mayor's	Office	Bureau of Buildings	Park Park Bureau	Sidewalk
An est operation	Abandoned	On street or public property (legally parked)	Neighborhood Environment 248-4465	On private property Neighborhood	Environment 248-4465 Blocking driveway or	illegally parked (non-emergency:	overtime, car in loading zone, double parking,	parked wrong way) Patrol Parking 248-4134	(after hours, Police Bureau) 226-7551	Blocking traffic Ext. 231	Police Bureau 226-7551 Ext. 231	Auto Wrecking	On private property	(illegal wrecking, repairing, housing of vehicles)	Bureau of Buildings	stre	FUNCE DUTEAU	Car bodies and/or parts on street	Neighborhood Environment. 248-4465		Transportation.	Alleritatives	service for aged and handicapped	Mobility 288-8391	ordinat	Carpool	Bicycle	Information	Auctions Purchasing	Division 248-4395 Path Routing	Bureau of Planning 248-4468		Ext. 332	Local Police Precinct or	Duracoult 1
	Recreation	Park Bureau 248-3580 Sports Activities	Park Bureau 248-4320 Civic Auditorium 226-2876	d			Park Bureau 228-8732	Forest Park Information Park Bureau 248-3580	Portland International Raceway 285-6635	Courses	1961-977 007	Sidewalks	City Engineer 248-4111	Obstructions, mudslides Neighborhood	Environment 248-4465	=	Uity Engineer 248-4256 Residential.	design and permit		Office 248-4090	Obstructions	Emergency street	obstructions, public stairs, street repair and	City Engineer 248-4110	Street, sidewalk and alley obstructions (non-	emergency)	Environment 248-4465	sidewalk or alley	Parks 248-4380	Vision obstructions at intersections, contractors	working in street Traffic	Engineering 248-4295	Pedestrian.	Car on or over sidewalk	Parking 248-4134
	ots	Environment, 248-4465 Appliances, auto	private property Bureau of	Buildings 248-4230	Noise	Disturbance of	Police Bureau 226-7551	S	Control 666-3711 Noise caused as a	result of zoning violations (auto wrecking)	Bureau of Buildings 248-4230	Noise caused by mechanical defects	in equipment; miscellaneous complaints	Neighborhood Environment 248-4465		Health Problems		ental	Refrigerators untended on	property, with operable latch Neighborhood	Environment 248-4465 Sanitation Problems	Visible sewerage	ettluent Bureau of	Buildings 248-4200 Raw garbage. lack	of garbage pickup Environmental	Sanitation 248-3671	animal excrement	Sanitation 248-3400	Bureau of Buildings	Plumbing 248-4225 Building 248-4230		Heating Systems 248-4230	Stagnant water: On private property	Environmental Sanitation 248-3400	In street area
yôur telephone!	Vacant. Buildings	DD	Deteriorated, Hazardous	Bureau of Buildings 248-4230	Filled with debris Fire Bureau 248-4363	Police Bureau 226-7551	Ext. 265 Containing rats.	raw garbage Environmental	Sanitation 248-3671	Fire Hazards	Brush, weeds, vegetation as fire potential	ED	Environment. 248-4465 Rags, debris, paper	within building Fire Bureau 248-4363	Telaw.		Hvdrant locations	Water Bureau 248-4408	Fire Bureau 248-4363	Occupancy limits (proposed)	Burldings 248-4245	Occupancy limits (existing) Bureau of	Buildings 248-4230	burning permits	Each local lire station	Fences & Hedges	Fences and/or hedges 3'6" and higher in front of yard.	6' in side or rear yard Bureau of	Buildings 248-4230	dustructing vision at intersection Traffic	Engineering 248-4295	Obstructing passage on street, sidewalk or alley	Neighborhood Environment 248-4465	Swimming pool fences (required for any new pool	exceeding 18" in depth) Bureau of
Please post near your telephone!	Emergency	(24 hours a day)	Fire Bureau 232-2111	Dangerous or dead animals	Control 666-3711		Ext. 246	Accident with injuries Police Bureau 226-7551	Crime Ext. 265	Police Bureau 226-7551 Ext. 265	Fire Bureau 232-2111		(after hours. 288-5441)	Broken, frozen water mains Broken fire hydrants	Water Bureau 282-7201	Animals	Dead. loose. injured or hiting	animals; barking dogs	Control 666-3711	Animal excrement, keeping	nd to	Excessive number	of animals Burgan of	Buildings 248-4230	Leaf Beetles, other insects, identification and control	Insect Control 289-6069	Rats Environmental	Sanitation 248-3671 Adoption	Animal Control 666-3711		Housing	New buildings or alterations	Buildings 248-4230	zoning laws	Buildings 248-4245

			No	vemb	er, 19'	74													E	22							Pa	age 13
Park Bureau 248-4320 Sidewalk	City Engineer 248-4165 Parking Strip	Parking Permits	Traffic Engineering 248-4295	Curbs, paving City Engineer 248-4389	Street Use Bureau of Buildings 248-4230	Statio	Blasting City Engineer 248-4256	Gity Meetings,	Documents & Regulation _S	Council Meeting Agendas	Auditor's Office 248-4085 Council Records	Ordinances Auditor S Office 248-4082	tion, and Ref	Auditor s Office 248-4092	of Codes ding, plar	and City Charter Auditor's		Gall Information Goordinator	for further	T	additional conies.	248-4583	THE CITY OF	PORTLAND			OREGON	
Fire Station	Personal Pronertv*	ā	Ext. 241	Desk 248-4210	Surplus (auctions) Purchasing 248-4395		Investigation Police Bureau 226-7551		Prevention Bureau	Streets	Repair, cleaning, emergency clearing of obstructions comoval of	broken glass City Engineer 248-4110	Improvements	Petition City Engineer 248-4173	Permit City Engineer 248-4389	Vehicular obstructions Police Bureau 226-7551 Ext. 265	Traffic control (signs, signals, speed limits)	Traffic Engineering 248-4295 Parking problems	Engineering 248-4435	Vacations City Engineer 248-4271	Lighting Bureau of Lighting 248-4406	0	Obstructed drainage	Low limbs over, other non-emergency	obstructions Neighborhood Fnwirchment 248-4465	nent	Office 248-4090	
Car on or over sidewalk Parking	Tan 45 Danh1200	Enforcement of laws	Folice Bureau 226-7551	repair or addition of signals, traffic signs	Traffic Engineering 248-4295 (after hours 288-5441)		Engineering 248-4295 Obstruction of traffic by	construction Traffic Finaineerina 248-4295	Iti	S	Commission 248-4360 Parking	Abandoned autos legally	garage (longer than 4 days) Neighborhood		Neignbornood Environment 248-4465 Parking of trucks in excess		Police Bureau . 226-7551 Ext. 231 Overtime parked wrong	way, etc. (non-emergency) Parking 248-4134	"No Parking" signs, "Ine limit parking requests.	Due	Parking in residential yard	snou	Buildings 248-4230 Meter hoods or repair Traffic	Engineering 248-4435	Autos	Information Police Bureau 226-7551 Ext 241	Police Impoundment Only.	
Sanitation 248-3400 In street area	a	City Engineer 248-4110 Medical Clinic Modical	Services 248-3816	Medical Services 248-3770	sease	on Clin	Services 248-3409 Mental Health Clinic	Services 248-3425	Medical 248-3400	Gounseling &	Information. Senior Citizens	City-County Commission 248-3960		Youth Counseling,	information, and referral Human Resources	Bureau 248-4474 Activities information	Metropolitan Youth Commission 248-4005	tion	Helations Commission 248-4187	Jobs	tervice	Board 248-4352 Neighborhood Youth Corps Park Bureau 246-3366	Summer Youth Programs	Hesources Bureau 248-4280 Senior Citizens	City-County Commission on Aging 248-3960	5	Commission 248-4187	
(required for any new pool exceeding 18" in depth)	Buildings 248-4230	Trees/Tree Limbs	Information and advice	Bureau of Parks 248-4380	oval and i on parking u of	Parks 248-4380 Low hanging limbs	Bureau of Parks 248-4380	street sign or signal, vision at intersection	Bureau of Parks 248-4380 NOTE:	There is no height limitation. Problems of encroachment	are civil matters	Eyésorés Troch and dobrie	Neighborhood Environment 248-4465	Raw garbage with rodent control Environmental	Sanitation 248-3671 Building decay. exterior and	interior; appliances and/or auto storage in yard	Bureau of Buildings 248-4230	opert	Sanitation 248-3400 Street areas		Trash & Dêbris	0 to 0	Environment 248-4465 Broken glass or	other obstructions on street City Engineer 248-4110	<u>ـ</u>	Flammable papers,	rags near buildings Fire Bureau 248-4363	
Bureau of Buildinge 248.4245	nousin existi	buildings for violations Bureau of	Sub-standard	Environmental Sanitation 248-3400	eat	Sanitation 248-3400	housing rentals Housing	House numbers assigned	Housing rehabilita- tion programs	Development Commission 224-4800	Water Service	New hookups, permits Water Bureau 248-4447 Emergencies (hooken water	Water Bureau 298-4424	.0 -	Water Bureau 240-4424 Water Bureau 248-4422		Water meter repair Water Bureau 248-4424	Sewer Service	Billing Water Bureau 248-4424	Water Bureau 248-445 Water Bureau 248-4445	Sewer permit charges Information	City Engineer 248-4065 Permit information	a	Construction, assessment City Auditor 248-4090	Noxious	Poison oak	Neighborhood Environment 248-4465	

Where to get maps

This article is continued from last month (Rain, Vol. 1, Issue 1).

THE COAST AND GEODETIC SURVEY has made triangulations on which all other maps are based, for much of the world; this data is of interest only to specialists. Their better-known activities include maps of all coastal areas, rather narrowly oriented to the needs of boatmen. The projection is always Mercator and the range of sizes and scales is chaotic. Don't even think of buying this series unless most of your outdoor activity is on the water.

Now let's move on to still another Federal agency in the wholesale mapping business: the Bureau of Land Management. Oregon contains an immense acreage of BLM land, both west-side and east-side. The east side has been the subject of two available mappings. One is at the two-mile-per-inch scale and is divided on the basis of the Federal survey, in oblongs 30 miles deep by 36 miles wide (that's six ranges of five townships). The series is beautifully printed in color, showing Federal land unmistakably. For a long time these maps sold at a dollar, but recently the price went down to 25 cents each. A good buy.

A second series was just launched. In this series, eastern Oregon is dissected along latitude-longitude lines in 30-minute units. Scale is mile-per-inch. The result is a map about 35 by 25 inches in size, on a monstrous piece of paper which presents a real problem in its care and preservation. The low price, 50 cents per sheet, is made possible by absence of color-printing. Ownerships are shown by a code letter in the corner of each tract: P for private, various other letters for the various public agencies. Contours are not shown, but each canyon is located by its central stream, rimrocks and summits are shown, and all in all this series is a wonderful buy if you can surmount the problem of large, unwieldy sheets. My own decision has been, to dissect each 30-minute quad into sixteenths (71/2-minute quads) and mount these in a standard ring-binder. A lot of trouble, particularly as the useful 71/2-minute corners are not shown but have to be developed by use of a meter-stick and lots of arithmetic. In return for my efforts I shall have a portable, accessible, not easily damageable mapping of thousands of interesting square miles. It is my idea that a good map, like a good dog, should accompany its owner into the field not once, but many, many times.

The BLM has free handout-maps for several recreational areas; the items go into and out of print, so I can only mention a sampling: Fisherman's Bend, Steens Mountain, Siuslaw resource area, and so on. Since BLM and Forest Service timber is often interlaced most bewilderingly in Western Oregon, one wonders why the two agencies could not surmount the "paper curtain" which separates all Federal departments from one another, and turn out excellent maps in collaboration rather than two parallel and (on the whole) inadequate series. A start has been made: the two agencies have collaborated on an excellent free detailed map of the wild part of the Rogue River.

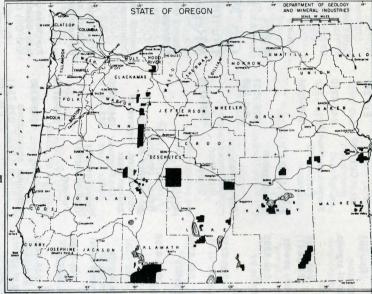
free detailed map of the wild part of the Rogue River. For Western Oregon in general, the BLM has a fairly good coverage of maps, one for each of their "regions." Unfortunately, three of the most important regions' maps have been allowed to go out of print, but we are promised an early return. Scale is the stingy 2-milesper-inch; price ranges between \$1 and \$2; detail, except in the Federal land itself (which in most versions is nicely colored), is from poor to wretched. One wonders if the new 30-minute mile-per-inch series is going to be extended to Western Oregon; my last inquiry received a noncommittal reply.

The BLM makes large-scale township maps (1000 feet per inch) of all townships in which it has holdings. These are fine for the Federal land itself; undependable outside it. Cost is 1 or 2 per sheet (large sheet, 31×31 inches plus margin).

There are many other Federal agencies that produce maps: maps of census tracts, of post office routes, of dams and drainage basins, and so on and on. Unfortunately there are no good public maps of rural postal delivery routes; a private firm makes these.

We can begin our story of mapping by state agencies with the Oregon Department of Geology and Mineral Industries. Often in collaboration with the Federal Geological Survey, they map areas of geological interest. These are of concern only to the specialist, in the main. However, in some cases the base map is an old thing, somewhat historic, which is otherwise unobtainable, and sometimes the scale will be a non-standard (but useful) one. Their price list can be seen, and their library used, in the State Office Building in Portland.

The State Forestry Department operates out of Salem, they've a headquarters just across from the pen there, and district headquarters at various spots such as Forest Grove. Like the BLM, they produce a close-up map of each township in which they own or manage any land; in the case of State Forestry I think these large close-ups are unavailable to the public. For public use they produce two-mile-



Approximate locations of geothermal leasing on Federal lands in Oregon.

per-inchers of which the best known is the one of Northwestern Oregon. Its coverage of the farming areas is poor, but when you get into the hill country where the state land is, you'll find this map hard to beat. State land is shown by a green tint. Sells at \$1.50 or so; you can pick it up at the Forest Grove headquarters. Don't be without it if the northern Coast Range is your stamping-ground.

state Parks is a department within the Highway Division and is headquartered in the Highway Building, Salem. They produce a sketch map for each of the larger state parks. State Highways has a large map department, in the basement

State Highways has a large map department, in the basement of the Highway Building, and they produce several series available to the public at low prices. These mappings seem to be partially Federal Department of Transportation attempts to secure a degree of uniformity as between state and state. Such attempts are not entirely successful. The Washington series of county road maps, for example, while theoretically half-inch-per-mile, are in actuality about 15/32 of an inch to the mile, and they cannot be matched with the corresponding Oregon series, also theoretically half-inch per mile, but in reality something like 13/32 of an inch to the mile.

The unit in these series is in each case the county, as one would surmise, except that the larger counties are dissected into two or more sheets. Harney county, for example, runs to 13 sheets. Because of this dissection, the series is not as inexpensive as at first would appear. Each county, or rather each sheet, costs around 30 cents. This applies to the medium or desk-top version, around half an inch to the mile. There's also a wall version at a dollar, and an illegible notebooksized version at 10 cents. Detail is surprisingly good, especially in the Oregon series. The Washington series I find somewhat more pedestrian, timid, and less artistic, but still a fairly good buy. I'm experimenting with a paste-up of most or all of these road maps, cutting them apart on standard latitude-longitude lines. This makes a more "wieldy" series and is a useful adjunct for the published Federal quadrangles (and a substitute where the latter are lacking). The county series is eked out by a group of enlargements for

The county series is eked out by a group of enlargements for the congested areas of each county, running to many pages for such counties as Multnomah and Marion. One views these enlargements with mixed feelings; obviously a lot of work went into them. I feel that, as maps, they are more or less failures, as their background of fuzzy air-photos obscures the road net and the lettering without adding very much information of a detailed kind.

The Highway Division's city series, on the other hand, is a real gem of a mapping, consisting of clear, accurate drawings and lettering.

Don't overlook the State Highway Department's free highway map of the state. It is revised each spring and is on a par with the best gas-company state maps. In addition, it shows the exact boundaries of the several state forests.

When we turn from federal and state mapping to the efforts

of the cities, counties, and special districts, our first impulse is to wonder why, with all this wealth of maps from the "higher echelons;" the lower levels need to do any mapping at all.

The facts seem to be, that the beautiful Federal and state maps, though known, used, and appreciated, often fail to come to grips with the day-by-day needs of the little people. The big draw-back of the Federal mappings is the length of their revision cycle. Twenty years, and sometimes thirty or forty, elapse before a given map is updated. In times like these, such periods are simply too long for people responsible for police, fire, school, and other public services at the local level.

The state mappings have a shorter revision cycle (five years or nearly that), but each series lacks something the local authorities need. The State Highway county series, for example, lacks road names except on its enlargements of congested areas; and these, as we have remarked, are rendered almost illegible by the airphoto background. (Highways has made, for its own use, a map of each county showing road names, and these maps can be had by special order, but they still seem not to suit the locals; perhaps because they show only roads, nothing else. The ideal road map shows quite a bit of detail other than roads.

The Columbia Region Associated Governments, CRAG for short, turns out a truly prodigious output of maps, mostly in connection with its long-range planning. Some are quite beautiful, printed in ten colors, and up to highest standards artistically, but useless, of course, in the here and now. For present-day use CRAG has devellong, designed to cover the entire metropolitan area. My first impresform week to week as news of changes came in.

Lately, though, I have heard opinions of this map that disturb

ENGINEERING

Nomadic Furniture, 2 Pantheon Books, \$4.95 Victor Papneck (Design for the Real World) and James Hennessey (with Papneck, Nomadic Furniture, 1 Excellent how-to-build simple furniture.

Pelton Wheels

Alternative Power Systems P.O. Box 124 Custer, Wash. 98240

We now have a small supply of cast steel Pelton type turbine wheels. Also complete units and units in all stages of construction, for people that want to use their water power now; also we would like to form an association of people to help people develop some hydroelectric systems at lowest cost possible.

see also Energy, Agriculture



Range: 5-20 year futures Prime characteristics:

• Choice over alternative futures-choice is available over alternative opportunities the fu-ture offers, if awareness of alternatives exists in the present.

 Revolutionary change implementable in this time frame, from directed evolutionary (small) changes initiated today.

• Almost anything imaginable may be brought about in this time frame.

• The future available in this time frame is invertable and shapable today.

• Today's decisions can solidify this future time frame.

(Earl C. Joseph, The Futurist, August, 1974)

Future Report 12 Shattuck St. Nashua, N.H. 03060 \$75/yr. Semi-monthly report on future planning, technological developments, energy situation. Entry example:

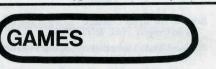
A Comprehensive Energy Bibliography National Technical Information Service Springfield, Va. 22151 Published by NASA. \$6 bibliography, quarterly reports \$4 per issue, or \$15/yr.

General Catalog Hillcrest Publications P.O. Box 395 McDonald, Ohio 44437 This catalog paints a disturbing picture of hard times, city survival during the famine to come, food storage, guerrilla warfare, plant identification, the Poor Man's James Bond. Free.



By 1985 we probably will be dependent upon imports for more than half of our supplies of 9 of 13 basic industrial raw materials, including iron ore, bauxite and tin.

(speech, Gov. McCall)



me. Apparently the street and road names were begun in too frail and spidery a style, and these fragile letters are beginning to erode from the original drawing. Illegibility is the cardinal sin in the world of maps, and CRAG seems to have committed it. I am sorry to see this expensive three-sheet map go down the drain, as the idea was good. Perhaps the drawing can be salvaged yet, with the street names replaced or heavied up

Had the CRAG map been adequate, obviously the emergency services of eastern Washington county would not have had to finance a parallel mapping of their part of the CRAG area, this time with street names clear and legible.

Many cities and counties issue their own home-drawn maps, some of which are barely legible, others excellent. No library stocks them; one must make a pilgrimage from city hall to courthouse throughout your area of interest. Prices range from free to several dollars

Private mapping continues to develop, in spite of the existence of so many public maps. Oil companies hire Rand or Gousha to turn out city maps on an assembly-line basis; some are quite good. The best, or at least most inclusive, map of the metro area is to be had from Mobil and Union stations. Others are also good but do not extend quite so far into the outskirts.

The rural property map is the specialty of Metsker of Tacoma. This firm maps each of the 75 northwestern counties in a cycle hovering around 15 years. All but the smallest lots are mapped with owner's name.

The Tscheu Company, of Portland, turns out rural route maps. They can be had in county-atlas form, complete with a list of the rural taxpayers in the subject county.

-Bob Benson



The Geological Society of the Oregon Country

Attn: Secretary

P.O. Box 8579

Portland, Or. 97207

Lectures, field trips, earth science seminars, workshops. \$10 membership (within 30 miles of Portland), \$7 junior. \$7 and \$3 over 30 miles. Monthly newsletter.

see also Education, Agriculture



Department of Environmental Quality 1234 S.W. Morrison

Portland, Or. 97205 229-5696 Laboratory and applied research. \$192,000 State Emergency Board planning funds for moving lab to Portland State University, in better quarters.

The Job Impact of Alternatives to Corps of Engineers Projects. University of Illinois, Champaign-Urbana Center for Advanced Computation Urbana, Ill.

\$4.50 paper/\$1.45 microfiche A projection of the economic result of a possible shift of \$1.13 billion from the Corps of Engineers budget to 5 alternative projects: 1) national health insurance; 2) Social Security payments; 3) mass transit development; 4) construction of waste treatment facilities; and 5) general tax relief. NSF/RA/N-73-052

Order from: Documents NTIS

U.S. Dept. of Commerce Springfield, Va. 22151 (L.J.)

see also Education

continued on page 16

Page 16

GOVERNMENT continued from page 15

Government in Oregon

local government. Prepared by: Oregon Board of Education Public Instruction

PUBLICATIONS CONCERNING FINANCIAL SUPPOR	T
(GRANTS)	
Annual Register of Grant Support, 1972 Academic Media 32 Lincoln Ave.	\$39.5
Orange, New Jersey 07050 Catalog of Federal Education Assistance Programs HEW, 1972 Superintendent of Documents Government Printing Office Washington, D.C. 20402	3.2
Foundation News (bimonthly) P.O. Box 733 Old Chelsea Station New York, N.Y. 10011 (Details of other Foundation Center-Council on Foundation publications are in the white brochure, The Foundation Center.)	1 year, 10.0 2 years, 17.0 3 years, 23.0
1972 Catalog of Federal Domestic Assistance, U.S. Office of Management and Budget Superintendent of Documents Government Printing Office Washington, D.C. 20402 (1,051 programs, 61 departments, agencies, and commissions)	7.0
Guide to Federal Funds for Urban Programs at Colleges and Universities Office of Urban Programs American Association of State Colleges and Universities Suite 700, One Dupont Circle Washington, D.C. 20036	5.0
Securing Support for Higher Education: A Bibliographical Handbook Ed.: Cletis Pride Praeger Publishers, New York (405 pp.)	16.5
Educational Contributions by Public Utilities and Other Regulated Industries as an Allowable Operating Expense for Rate-Making Purposes Council for Financial Aid to Education 6 East 45th St. New York, N.Y. 10017 (44 pp.)	2.0
A Manual for Obtaining Government Grants Louis A. Urgo Robert J. Corcoran Company Boston, Mass. (32 pp., 3rd ed.)	6.5
Publications of: Public Service Materials Center (Joseph Dermer) 104 East 40th St. New York, N.Y. 10016	
The 1972-73 Survey of Grant-Making Foundations with Assets of over \$500,000 or Grants of over \$25,000 (64 pp.)	7.9
How to Write Successful Foundation Presentations Where America's Large Foundations Make Their Grants	8.9 19.5
How to Raise Funds from Foundations Writing Environmental Grants, Proposals Free from: Jonathan West EE Specialist Tennessee Valley Authority Knoxville, Tenn. 37902	8.5

Oregon Historical Society. "The Sense of Proportion: A Study of Community Life and Regional Architecture."

Group III

Bend in the River Council. "Bend in the River: The Oregon Trail, 1975-2000."

Portland State University. "Coping with Crisis: Energy and the Human Environment."

Oregon State University. "Modern Times: An Exploration of Community."

Group IV

- Black Education Center. "Inner-City Blacks: A Humanistic View of the Invisible Man in Urban Issues."
- Alternative Schools Consortium. "Alternative Education: The Most Developed Segment of an Alternative Lifestyle."

Northwest Multicultural Development Laboratory. "Oregon's Chicano: A Culture in Conflict."

942 Lancaster Drive NE Salem, Ore. 97310 1971, with updates. A 400-page guide for educators. Taxes, laws, committee structure, districts, land, zoning. Legislative Action Center 601 W. Burnside Portland Or 97209

Teacher's resource handbook on state an

Portland, Or. 97209 223-7133 Sponsor legislation workshops, generally a clearinghouse for citizens' action.

Public Works Administration (1930's)

4.75 billion man-hours in constructing about 10% of the new transportation facilities in the United States. Also 35% of the hospitals, 65% of the city halls, 70% of the educational facilities.

Legislative Directory

93rd Congress, Spring, 1974 American Gas Association 1515 Wilson Blvd. Arlington, Virginia 22209 Free, 150-page directory to Congress, com mittees, congressional maps, etc.

Portland City Government

Breakdown of city government, listing commissions, boards, committees. Diagram of city council responsibilities. Call 248-3511 for copies.

see also Associations, Energy



Oregon Humanities Program, 1973-74 1633 S.W. Park Ave. Portland, Or. 97207

The projects described below are listed with the name of the nominal recipient of the regram only, even though in several cases there is multiple sponsorhip. Evaluative statements are distilled from personal observation, participants' reports, media coverage and responses from project personnel. They vary widely in breadth and depth and share the shortcomings common to all subjective judgments.

Group I

Lane Community College. "Asian-American Community Dialogue."

University of Oregon "Eugene-Springfield Community Resource Center."

Chemeketa Community College. "Aging: The Paradox of Growth and Loss."

Group II

- University of Oregon Honors College. "A Community Dialogue-Baker, Oregon."
- Wheeler County Historical Commission. "History of Wheeler County, Oregon."
- Center for Urban Education. "Thorne Family Film."

Group V

Northwestern School of Law. "Neighborhood Law Conference.

Creative Outlet. "Neighborhoods in Transition."

Jackson County. "Jackson County as Community-Yesterday, Today, and Tomorrow."

Group VI

- Campus Christian Ministry. "Toward a New Community.
- Oregon State University. "Seatau qua Classic Film Symposium."
- OMSI. "Cannon Beach: A Community Conversation."

Group VII

- Northwest Film Study Center. "Minorities of One.
- League of Women Voters, Eugene. "Dilemmas in Land Use.
- Eastern Oregon State College. "Perspectives on Conflicting Community and Individual Values and their Impact on the Physical and Human Environment."

Group VIII

- Jackson County Mental Health Association. "Neighborhood Dialogue Centers."
- Oregon College of Education. "Concepts of Death."
- American Revolution Bicentennial Commission of Oregon. "The American Revolution: Then and Now."



Portland State University, Grantee Social Security Administration, \$260,259 For a study relating to the federal supplement security income program. Health, Education and Welfare, \$102.334For evaluation of conflicts in interagency relationships. Health, Education and Welfare, \$68,830 For career training program. Oregon State Program on Aging, \$14,200 To develop training sessions for state

agency personnel.

Design, Development and Preparation of a Source Book on Man-Made Environment-Oriented Topics and Environmental Education. **NSF** Grant Association of American Geographers 1710 16th NW Washington, D.C. 20009

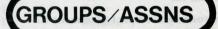
Salvadore Natol: 234-1450

Design, Development and Preparation of a Report on Natural Environment-Based Educational Activities and Environmental Education. NSF Grant. John Lounsbury, Arizona State University, Tempe, Arizona 85281

The Multnomah Library in Portland subscribes to the Foundation Center Service; also they return information on all Oregon foundations. 801 SW 10th. 223-7201. The EEC has some additional information

on funding in environment and education areas

see also Government, Information, Energy





Natural Resources Law Institute 10015 SW Terwilliger Blvd. Portland, Or. 97219 (503) 244-6161, x 545 (see Rain, vol. 1, no. 1)

The Desert Trail Association P.O. Box 589 Burns, Ore. 97720 Establishment of a border-to-border desert trail system.

Union of Young Environmentalists 2420 Nicolet Drive, E5107 Green Bay, Wis. 54302 Northwest contact: Doug Biggs 321 Ridgeway Gamma Bellingham, Wash. 98225

Northwest Environmental Defense Center 10015 SW Terwilliger Portland, Ore. 97219 Contact: Rick Fowlks, 244-6161, x 545

A tax-exempt foundation providing public interest legal services. Attorneys, architects, scientists, and other professionals lending their expertise to the protection and preservation of the physical environment in Oregon. Cases are generally forwarded to NEDC by other environmental organizations which act in a client capacity. The organization does not handle contingent fee litigation or perform lobbying activities.

Contributions needed. \$5 student member-ship, \$15 individual, \$25 family, \$100 sustaining. Send to Joe Kershner, 914 Corbett Bldg., Portland, Ore. 97204.

People's Law School

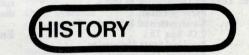
Portland, Oregon

Three locations, offering classes throughout the winter, tenant, consumer, women and law, others. Call Judy Klagman, 224-4086 or Tim Plenk, 234-8461, for schedule, etc.

Consumer Power League 3920 N.E. Highland St. Portland, Ore. 281-1031

Group attempting to sponsor consumer ownership of Pacific Power and Light.

see also Outdoor Education



Eagle Bend, Self Portrait Eagle Bend Public Schools, District No. 790

Eagle Bend, Minn. 56446.

\$1.00

A history and portrait of the town. Hand made feeling. Range of contributors, children and adult. Model for neighborhood and small town efforts.

Alfred Staehli

317 S.E. 62nd Ave. Portland, Ore. 97215 235-3515

Studying historic preservation possiblities of neighborhoods under a project grant from the National Endowment for the Arts, City **Options Program.**

The project seeks to identify and record evidence of historic personages, places and events associated with the growth and history of Portland. The project also seeks to identify and record distinctive neighborhood qualities which might be for preservation as part of Portland's heritage.

Pacific N.W. Film and Research Society 301 SE 16th

Portland, Ore. 97214 (503) 233-9408

Newly formed non-profit organization whose membership consists of persons interested in the preservation of the sights and sounds of historic sites with film, videotape, and audio tape. Will work with other societies with common purposes. Stuart Heathorne, coordinator. Membership: Adult \$10, Student \$5, Family \$22.50.

(I.E.)

see also Architecture, Agriculture, Art



"Do you know what the country needs

today? A seven-cent nickel. . If it works out, next year we could have an eight-cent nickel. . . . You could go to the newsstand, buy a three-cent newspaper, and get the nickel back again. One nickel carefully used would last a life-time."

-Groucho Marx in Animal Crackers, 1930.

Page 18

continued from page 17

This space is for ideas, unfunded proposals, thoughts, epigrams, even quips. I'll start it:

Chinook Centrex. Over a year ago I helped compile 450 pages of information about Portland and Oregon. Out of 5,000 copies printed, there are about 100 left. There are still 5-10 requests weekly.

I think the need exists for a similar effort. Perhaps a catalog of information for the hard times, perhaps section by section? Should it be for all the Northwest? Cost money?

So how about if interested people contact me-with suggestions, levels of commitment, etc. Then we can arrange to meet.

Steve Johnson Environmental Education Center P.O. Box 751 Portland State University Portland, Ore. 97207 (503) 229-4692

INFORMATION

Public Interest Reports Environmental Alert Group 1543 N. Martel Ave. Los Angeles, Cal. 90046 Good fact sheets/pamphlets available at

cost. Write for publication list.

World Environmental Directory

Standard Environmental Reference P.O. Box 1067 Silver Spring, Md. 20910 \$50.

6,600 companies, groups, etc., in 60 coun-tries. They also publish other library-level subscription environmental journals, such as Energy, Resources Report. 1 yr, \$145.

Hatfield Newsletter

U.S. Senate September, 4 pages on privacy legislation

Publications and Reports Resulting from Research Grants. Funded through: **Coastal Pollution Branch** Pacific Northwest Environmental Research Laboratory U.S. Environmental Protection Agency 200 S.W. 35th St. Corvallis, Or. 97330

U.S. Environmental Protection Agency Region X 1200 6th Ave. Seattle, Wash. 98101

(206) 442-1200

An after-hours environmental emergency services notification project. For reporting oil spills, unexplained fish kills, sewage treatment disasters, etc.

Environmental Impact Statement Re-

views

U.S. Environmental Protection Agency 1200 6th Ave. Seattle, Wash. 98101

Periodically the EPA publishes a list of received impact statements for the Northwest region.

Forestry Extension

School of Forestry

Oregon State University Corvallis, Ore. 97331

Free catalog of conferences, publications,

audio-visual materials. A range of How-to, technical and various ages education curriculum materials.

Resource Guide-Use This

Western Regional Environmental Ed. Council 721 Capitol Mall Sacramento, Cal. 95814 Guide to environmental education curricu-

him.

Speakers and Programs

Multnomah County Library 801 S.W. 10th-Group Services 223-7201, x43 A free 25 page booklet on organizations

offering speakers programs in the Portland area.

Sym- bri	When You Know	Multiply By	To Find	Sym- bol	Sym- bol	When You Know	Multiply By	To Find	Syn
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To Live with the Earth Oregon Environmental Foundation c/o Oregon Environmental Council 2637 SW Water Ave. Portland, Ore. 97201

222-1963

\$1.25 postpaid. 78 pp. Idea and information booklet, including directory and bibliography for Oregonians mostly.

Multnomah County Library

801 SW 10th Ave.

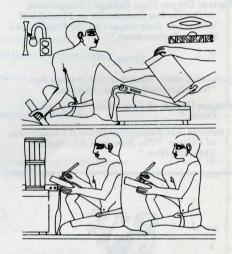
Portland, Ore. 97205

Picture file collection, formed in 1915 by Elanor Statler. 10,000 categories. 2-3 million sheets.

SIPAU

- c/o Noel Peattie
- Rt. 1, Box 216
- Winters, Cal. 95694

\$2/yr. A librarians review/abstract-style newsletter, semi-annually. Finds little-known newsletters, "underground" publications, etc.



The EEC has been given the results of a January, 1974, search of the files of the Institute for Environmental Scientists in Wash., Ore., Idaho, Montana, British Columbia, Alberta, interested in assisting conservation groups. Call EEC (229-4682) for more information.

Some other Environmental Education Newsletters:

The Ecology Center Newsletter 2179 Allston Way Berkeley, Cal. 94704

Newsletter of Environmental Education Faculty of Education University of British Columbia Vancouver 8, B.C., Canada 228-6895

Eco-Notes

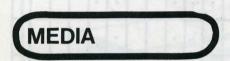
Western Regional Environmental Ed. Council 721 Capitol Mall Sacramento, Calif. 95814

State and Local Environmental Libraries: A Directory Natl. Technical Institute of Science 5280 Port Royal Rd. Springfield, Va. 22105 \$3.00

LAND USE

13/11/21	% of	% of		% of	Type of	% of	% of
Region	Farms	Sales	State	Sales	Production	Farms	Sales
Pacific	13	71	Arizona	89	Vegetables	17	85
S. Eastern	6	56	California	79	Fruit & nuts	17	71
Mountain	9	54	N. Mexico	63	Other field crops	20	70
Delta	8	51	Colorado	57	Cotton	10	58
N. England	11	49	Mississippi	55	Poultry	8	43
S. Plains	6	45	Maine	53	Other livestock	3	31
Lake States	2	14	Texas	52	General	5	30
Corn Belt	2	13	Arkansas	50	Dairy	6	23
N. Plains	2	18	Louisiana	48	Tobacco	3	18
Appalachia	4	27	WashOre.	46	Cash grain	3	15
			Georgia	43	Contraction of the second		
			Michigan	21			
			Wisconsin	13			
			N. Dakota	13			

Source: R. Nikolitch, Family-Size Farms in U.S. Agriculture, USDA ERS No. 499, February 1972, pp. 7, 9, 10.



We are doing the layout on the second video exchange directory for the Seattle area...

... and it will be out in November. We also are working with a lot of folks and cable companies in order to help people understand the hardware/softwear reel to real time process.



Willamette Valley Observer 454 Willamette St. Eugene, Ore. 97401 New community non-profit weekly newspaper, to be published soon. Willamette Week

Weekly newspaper soon to be published. Ron Buel, publisher. 320 S.W. Stark, Rm. 315 Portland, Ore. 97204 243-2122; 243-2128

Paper somewhat modeled after National Observer, Oregon Times, or Christian Science Monitor. First issue to be published around Nov. 12. \$8/yr.

see also Audio-Visual



tering and information exchange.

Co-op Contacts P.O. Box 19142 Portland, Ore. 97219 A specialized, people and resource findery, memeographed free classified ad, 5-page flyer. Lists mostly people in Northwest looking for rural communal connections, encouraging the use of the vehicle for sharing, swapping, bar-

Pretend that all the entries in Rain are numbered. . . .

Then you could follow a sequence like 7, 23, 106, 108, 51. Try it. I don't know what they will be—if I numbered them now, Number One might be Number 138.

Skills Service Directory Harpers Magazine, 50¢ 2 Park Ave. New York, N.Y. 10016

Western Union

Messages by Satellite. Phone 800-325-6400 for free booklet, "Information Networks." see also Geology, Agriculture

OPEN, NW Information Network Address correction: P.O. Box 692

Port Townsend, Wash. 98368

P.O. Box 5599 Seattle, Wash. 98105

Other NW Information Networks:

Jaybird Information, Box 554, Republic Wash.

Co-op Contacts,

Box 19142, Portland, Or. 97209 Rational Circle,

c/o 2256-13 Patterson, Eugene, Ore. 97405

Rural Resources and Information P.O. Box 874, Toppenish, Wash. 98948

Vancouver Learning Exchange, 2455 W. 5th, Vancouver 9, B.C., Canada (Edward Goehring,

OPEN.)

The Avacado Exchange at the University of Washington Experimental College was discontinued. The Avacado people are now starting a network called "Visions Exchange."

(Edward Goehring, OPEN)

Reflections from the Road

About three weeks ago Dana Atchley presented an audio image tour of his last year's rambling through America. Attended by 250 people in the Earth Tavern's new public space. Picking things up, leaving them off, a carrier pigeon with a camera and tape recorder.

> see also Education, Outdoor Education, Community

Environments for Learning P Box 4174	RIM	AR	Y II	VV	DLV	EN	IENT	го	FS	UB	JEC	ст и	AR	EAS	;		
Madison, Wisconsin 53711	15	1	1	1	12	1	121	BI	1	6	181	1	Com	10	E		
KEY CONCEPTS-Sample study areas	32	50	aric	2600	T	crital	ne line	Sec.	3	S C C	No.	S	F	inic			
ECOSYSTEMS	arth	, lei	A la	(at	ical l		rts CCO	(Ecol	0109	1010		chiller .	isto es		3	1 mer	2
ENERGY-Sun, climate, photoperiodism, photosynthesis, re- spiration biomass, competition for		•			bestel								R				
FOOD -Photosynthesis, energy transfer in food chains, food webs, nutrients, erosion, producer, consumer, decomposer.				•	56	•		•						24.5			1
EVOLUTION —Time, natural selection, adaptation, territoriality, migration, geology, future		•		18	32 49 49			0 2 7		•	4				Ð		5
POPULATION -Competition, cooperation, limiting factors, carrying capacity, density, distribution, dispersion	•	•	S.e	•		•	1000	10			15	618 164	nice and			1	
COMMUNITY -Habitat, diversity, niche, tolerance, indicator species, biome, zonation, salinity	2	•		•	•			2								18.8	1
INTERACTION -Cycles, succession, eutrophication, symbiosis, parasite, diseases		•		•				Ι			1		2		2	1 N.	
BALANCE-Interdependence, dominance, climax, ecotone, nat- ural eutrophication	i los	•	•		•	1					· ····································			2.1		285	

HUMAN SYSTEMS

ENERGY -Sources, production and delivery, consumption, calories, uses in the home, school, community, transportation	i	•		5.1	•			•	•	1			•	1.1.1			1
AGRICULTURE-Practices, conservation, energy use in pro- duction, shipping, packaging, marketing, nutrition	•	•	•	•	•	•		•				•		10		N	1000
TECHNOLOGY -Evolution of, gatherer-farmer to post industrial ages, harvesting/extracting capabilities, benefits, liabilities		•	•	•	•	•	•	•	•	•	ape		•	•	10	nin a	1
POPULATION —Increase, structure, density, dispersion, distribution (geographically, urban-rural), resource dependance	•	•	19.1	•	•			•		•	• 1		•	•	•	34	
COMMUNITY -Self, family, school, local, state, nation, world, government, business/industry, church				1	•	10				•	•		•	•		•	1
INTERACTION-INTER-personal, -group, -agency, -institutional, -national, transportation, communications incl. mass media							ain		•	•	100	•	•	•	•	•	•
BALANCE -Scientific understanding (cause-effect), value clarifi- cation, education, communications, community goals	•		•	•	•		•	•	•	•	•	•		• •	• •	•	•

OUTDOOR ED

Metro Environmental Education Council, Portland Area:

Chairman: John Gumert, Bureau of Land Management, 234-3361, x 4024 Vice-chairman: Bob Man, Washington

County IED, 648-7191

Secretary: Yvonne Weber, Western Forestry Center, 228-1367

1974 Operation Nature Guide 50¢ from Nature Guide 34915 4th Ave. S.

Federal Way, Wash. 98002 List of 600 persons, compiled by the Audubon Society, willing to be listed as willing and eager to give visitors a couple of hours of time. Wildflowers, geology, mammals, etc. PARTICIPATION

"Thousands of groups exist, among them now are at least 3,000 conservation and environmental organizations. This number includes approximately 250 national and regional groups and 400 state organizations."

Resources for Citizen Planners

Sumner Sharpe, Rick Paulson. Published by Center for Urban Education. How-to material, people in community, etc. Copes from C.U.E. in Portland, 224-1144.

(M.L.)

see also Education



see also Education



Preventative Medicine

A recent study done for the Dept. of Health, Education and Welfare, entitled The Forward Plan for Health, a master plan for the next 5 years, stresses the development of "Better research and evaluation methodologies needed to determine the effectiveness of various preventive activities.

City of Portland Working for You Molly Weinstein City of Portland, City Hall Portland, Or. 97205 248-4583

Finally a "problem area" sorted information guide to city government! (SEE P. 12 & 13)

newspapers used for warmth by Park Bench tenants; Hoover flags were empty pocket linings turned inside out. In the country there were Hoover hogs, the jack rabbits that impoverished farmers caught for food; and Hoover wagons. Broken down cars restored to locomotion with the help of mules.

SPACE Portland Center for the Visual Arts 117 NW 5th Portland, Ore. 97209 222-7107

Exciting exhibit gallery that often includes use of total space, involvement art, and events.

15 NW 6th Portland, Ore., mentioned in last issue, is closed.

Arthur W. Erickson **Eclectic Arts** 630 SW 12th Portland, Ore. 97205 (503) 227-4710 Exhibits and events. Nice atmosphere. Recently shown there: traditional arts of Tibetan culture, and Kris Krohn's Xerox works.

Something 'homespun,' something new, something green, honey-colored, too -that's today's most visible trend in interiors."

(Family Weekly, Oct. '74)

Page 22

SPACE

continued from page 21

Earth

632 N.W. 21st Portland, Ore 97209

227-4573

Enlarged tavern with stage and picture postcard brick Mt. Hood, open for all sorts of events, music.

Energy Use for Bicycling Oak Ridge Ntl. Laboratory Environmental Program

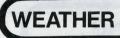
- P.O. Box X
- Oak Ridge, Tenn. 37830

"If 10% of the urban auto travel conducted during daylight and in good weather for trips of 5 miles or less were shifted to bicycles, the savings in 1971 would have been 180 trillion BTU, 1.8% of total urban automobile energy use." Report No. ORNL-NSF-EP-65.

Tri-Met

Beginning January 12, 1975, Tri-Met will institute a free ride zone, for downtown Portland and eliminate the zone system, so that all

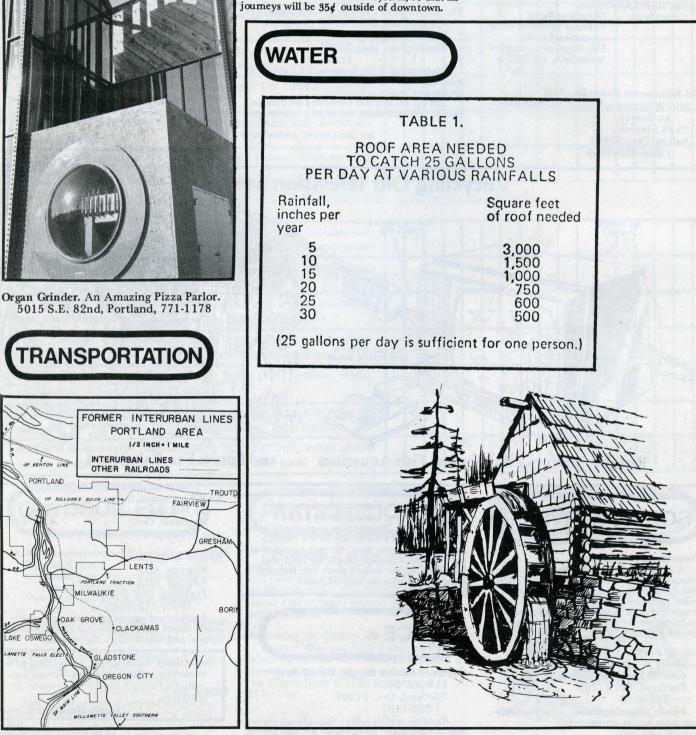


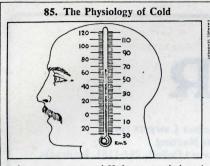


"We're changing the weather by accident." (Henry Lansford, Science Digest, Dec., 1973.)

Need for a National Weather Modification Research Program. No. B-133202. \$1.

General Accounting Office Washington, D.C. 20546





At temperatures around 50 degrees, a naked man's At temperatures around 50 degrees, a naked man's limbs begin to stiffen. At zero, he will freeze to death within a few minutes. With the help of clothing and food and the body's adaptive mechanisms, though, most of us should get along fine this winter. Like all other warm-blooded animals, man takes along his own internal climate wherever he goes.

Under normal circumstances, this carefully maintained Under normal circumstances, this carefully maintained microclimate rarely varies more than a few degrees (from 97 to 100 degrees) at the tropics or at the poles. When the body is confronted with sudden cold, nearly all perspiration stops, inhibiting the cooling effects of evaporation, and the blood vessels near the surface of the body constrict, slowing the flow of heat from deep inside the body to the surface. (This is why our hands and feet get chilled in cold weather.) When evaporations the protections doep still further, our

When external temperatures drop still further, our bodies call on two other heat-creating internal defenses: shivering, and a squirt of the hormone epinephrine. Man also has a longer-term ability to acclimatize

Man also has a longer-term ability to acclimatize to a colder environment. Scientists studied a group of Norwegian students camping out in skimpy sleeping bags in below-freezing temperatures. At first, the campers shivered so much they couldn't sleep, but gradually they ceased noticing the cold. Six weeks later, they were measured against a control group of unacclimated campers. As outside temperatures drop-red as did the hody temperatures of the control group. pcd, so did the body temperatures of the control group, while the acclimated campers remained warm.

Weather Modification

U.S. Dept. of Interior is working on plans to modify the weather in the Rocky Mountains in order to increase the amount of water in the Colorado River.

METROMEX

On-going study of the effects of urban area on weather patterns. St. Louis, Missouri. "For instance, downwind of St. Louis

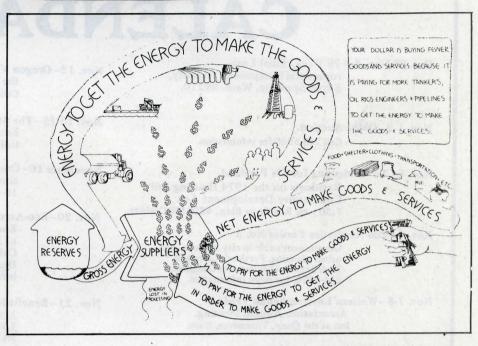
there are more days of heavy rainfall in the summer than there are upwind of the city. Also, rainstorms last longer and cover greater areas. Individual rain cells that have developed or passed over industrialized areas of St. Louis have dumped as much as 200 to 300 percent more water than those cells formed in areas unaffected by the city.'

Dr. Reid Bryson, U. of Wisconsin climatologist, is reminding folks that 1975 will be the midpoint of the 22-year draught cycle which brought us the dust bowl 44 years ago. If the pattern of the draught cycle holds true, as it has for 8 times previously, dry spells could last from 3 to 8 years.



Wearing Your Ears on Your Hands. Stuart Anstis, at York University, Toronto, spent 6 days with a microphone attached to each ear. When a fly buzzed around the microphone on his left hand, he involuntarily swatted at his left ear.

WHOLE SYSTEMS



see also Recycling

POSITIONS-SITUATIONS

Wanted: Oregon Environmental Position Contact John Taylor, 2215 E. Edison, Tucson, Ariz. 85719. (602) 327-1137. M.S., Env. Science, Wash. St. U. Exp: Asst. Prof. Env. Sci. Research, teaching, museum experience.

Wanted: Pacific NW Env. Education

Position. Dr. Tom Abeler, College of Env. Science, Univ. of Wisconsin, Green Bay, Wis., 54302. Ph.D., Univ. of Louisville (chemistry). Asst. Prof., College of Env. Science. Teaching, research, writing exp.

Rutan's Research Station

I am presently building a Quonset building of which one section will house 500 chickens, the waste from which will be washed down daily into a digester-which will be open for public viewing at an admission price-which will in turn feed a greenhouse with heat and nourishment from the slurry. The greenhouse section will have panels that close at night to conserve heat. The Quonset hut shape makes this easily engineered. The digester end of the project will be open for viewing beginning the week of 20 Oct., 1974.

Al Rutan 983 Riverside Drive Billings, Mont. 59101 Have information about current minicomputers and peripherals, ...

and design for a community or network text-information processor. Looking for software/hardware design collective, with funding, in the Puget Sound area.

-Bcb Wallace

New World Computer Services, Inc. P.O. Box 5415

Seattle, Wash. 98105

Living in the Ozarks Newsletter ...

is a regional newsletter for people in and interested in the Ozarks. Subscriptions \$5 for 12 monthly issues. Joel and Sherri Davidson, Pettigrew, Ark. 72752.

The Energy Information Center, Washington state, is looking for information/analysis of energy efficiency, particularly with regard to the construc-tion industry. (206) 753-5420.

Soil Association

Roy Thompson, Star Route, Box 148, Naches, Wash. 98937.

Forming a NW branch of this long-existing organic gardening and intermediate techhology association.

CALENDAR

Oct. 28-Nov. 3 = 76 Week. Final Environmental Symposium Activity, Expo. Spokane, Wash. 99210.

Nov. 1-2-OMSI Auction. Call 248-5900 for information.

Nov. 6-Town Meeting for SW Portland Residents on the 1974 Housing and Community Development Act. 7:30 p.m. Red Cross Bldg., 4200 SW Corbett.

Nov. 6–Eco-Aesthetics Forum No. 3 Government's role in city options, and urban planning. Portland. Cleveland High School. Call Roberta Caughlan, 234-9020, for more information.

Nov. 7-8-Western Environmental Trade Association Annual Meeting. Inn at the Quay, Vancouver, Wash.

Nov. 8-10-Schools within Schools Conference, Chicago. Contact Lynda Falkenstein, 5323 SE 47th, Portland, Ore. 97206.

Nov. 9-10– Oregon Environmental Foundation Country Boutique Crafts Fair. Call Anne Hunt for details, 287-3495.

Nov. 10-Hand-made Films. Swann Auditorium, Portland Art Museum.

Nov. 11-Gary Snyder, Reading Poetry 7:30 p.m., Smith Memorial Ballroom, Portland State University. Nov. 12–Oregon Volunteer Lawyers for the Arts Meeting. Call Leonard DuBoff, 244-1181, for details.

Nov. 13-15-The State Environmental Education Conference, Camp Menucha Call 229-4682 for details.

November 16-Oregon Architectural Barriers Council Workshop. 10-4 p.m. Mt Hood Community College.

Nov. 20-Eco-Aesthetics, Forum No. 4. Energy-What Options, and Realities of Life and How to Deal with Them. Call Roberta Coughlin, Cleveland High School, 234-9020 for more information.

Nov. 21-Benefit for Creative Outlet 5:30 p.m. at Calvin's Public House, 1116 S.W. Washington. \$2 for beer, music, munchies. Portland, 233-3654.

Nov. 27-Dec. 2–Transforming Our Consciousness. Bioenergetics. Contact Dan Barr, Bioenergetics NW, 3938 1st Ave NE, Seattle, Wn. 98105.

Dec. 1-Lewis Cook Presents, at the NW Film Study Center, more historic film, much of which hasn't been seen for 50 years.

Dec. 7, 10-4p.m.—Hands-on Video Workshop, Creative Outlet. 201 S.E. 12th, Portland. Call to confirm, 233-3654.

