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ECO-NET

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RAIN

MONTHLY NEWSLETTER OF ECO NET

VOLUME I, NUMBER 1

OCTOBER, 1974



RAIN is a publication of ECO-NET, an environmental Education network funded by the Hill Foundation and an Environmental Education Grant. The office is at Environmental Education Center. Portland State University, PO Box 751. Portland, Or. 97207. (503) 229-4692.

Eco-Net/Energy Center/OMSI
(503) 224-9500

Charles Auch	Marcis Lynch
Linda Craig	Mary Lawrence
Dean Ivy	Bob Philips
Lee Johnson	Rusty Whitney

RAIN/ EEC
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Steve Johnson (editor)
Mary Wells (layout, design)

EEC
(503) 229-4682
Randi Krogstad
Don Stotler
Laura Williamson

This issue thanks also to:

Bob Benson	Ancil Nance
Jack Eyerly	(darkroom)
Anne McLoughin	Julie Seltz
Mark Musick	Wes Thomas

Cover Photo: Helen Mapp

POSITIONS-SITUATIONS

FREE! Please limit entries
to 40 words.

Co-op to Sell Recycled Materials. Joseph. 281-5119. Portland.

Anyone wishing help building a Methane digester, windmill, or solar heating unit for home, call Peter, 287-7215. Portland.

Need people doing crafts, painting, carpentry, schools, etc. to share warehouse space in Community Coffeehouse in SE Portland. 236-2830.

Cheap computer time available; especially interested in use by non-profit groups. Utilities not provided. For information contact Rusty Whitney, OMSI. 224-9500.

Introduction to RAIN

RAIN is a monthly bulletin board. As stuff comes our way by phone, mail, feet, hands and mouth we make entries, abstracts, paragraphs. We emphasize environmental/energy related and communications kinds of information; and we are interested in the evolutionary possibilities of inter-disciplinary connections.

Our geographic emphasis is the Pacific Northwest, though our prejudice will be Oregon, and more specifically Portland. You can correct our bias by your feedback, sending us information on projects, exciting books, pieces, newsletters, ideas, photos, corrections. (see also reader inquiry card).

Positions and Situations (see this page) is a place for you locate others, more or less without our editorial intervention. If you are thinking about thinking about doing something here's the place to find next steps and connections.

We have spent nearly as much time constructing our mailing list, as compiling the newsletter. It is presently composed of environmental educators, people doing energy related research, other newsletters, other centers, community organizers, governmental and private environmentally related groups and agencies.

If you have other persons you think should receive RAIN drop us a note.

Why you may not be entered: We don't know about you, you are lost in brown boxes and manila envelopes, or we ran out of time and space.

You will notice initials following some entries: the person submitting the entry is found in the list of contributors.

In addition to RAIN, during the year we expect to publish: 1) City Survival, a short directory (or series) to information resources in Portland, 2) A Directory of Environmental Information Resources in the Pacific Northwest, 3) How To Sheets, guides to getting things done, like how to find your way through governmental bureaucracies, 4) An Access Guide, to materials at EEC/Energy Center.

Please mention RAIN when asking for information from individuals and groups; as it then encourages those people to keep us posted. (S. J.)

Reader Inquiry Card



NAME:

ADDRESS:

PHONE:

OCCUPATION:

I would like Information especially in the areas of:

I would like to submit information regularly, please contact.

SPECIAL FEATURES:

which of the following would you like to see done:

- | | |
|---------------------------------|------------------------------|
| 1) Environmental directory | 7) Guide to media |
| 2) Impact statement info. guide | 8) Interviews |
| 3) How to sheets | 9) Guide to Newsletters |
| 4) More events | 10) Guide to video resources |
| 5) Directory of directories | 11) Guide to bookstores |
| 6) Guide to places | 12) Guide to N. W. fiction |

AGRICULTURE-FOOD

EARTH METABOLIC DESIGN, INC.
 Box 2016 Yale Station
 New Haven, Ct. 06520
 Comprehensive design. Buckminster Fuller. Futures. Subscription to Newsletter \$5.00 per year. Ask for complimentary copy. March 1974, on new accounting systems. June 1974 good issue on world agriculture and weather situation.

Passport To Survival

Esther Dickey. Random House 1969. \$4.95. 180 PP.

Because Ms. Dickey lives in Gresham her book is available at most bookstores.

Storage, preservation, canning; not about stockpiling but about better ways to shop, measures of safety, sensible nutrition and self dependence.

Six Months

Grapefruit Juice
 Orange Juice

Fruit Juices in general

One to Two Years

Cherries Plums
 Berries Tomato Juice
 Prunes Roast Beef

Two to Three Years

Peaches Applesauce
 Pears Beets

Apricots

Three to Four Years

Carrots Green Beans
 Spinach Greens
 Tomatos

Four to Five Years

Peas Tuna Fish
 Corn Corned Beef
 Lima Beans

JOHNNY APPLESEED: MAN AND MYTH. Robert Price.

"His boat was dubbed with mud and tree moss--quite in keeping with his rough garb and untidy appearance... In the Autumn of 1838 I saw his nursery of 15,000 trees, 10 or 11 miles from Fort Wayne...."

"Food and Fuel from Trash"
 Reprinted from the Nation, by F. O. B. Clearing House. Senator Bldg. Portland, Or. 97204 228-6403

FOOD PRESERVATION HOTLINE
 (County Extension Service)
 238-9768 238-9769

CO EVOLUTION QUARTERLY.
 558 Santa Cruz, Menlo Park, Ca. 94965. \$6/yr.

From some of the people who did the Whole Earth Catalog. Emphasis more on energy, food, survival, political action. An exhaustive article on Agriculture by Anne and Paul Ehrlich.

TABLE IV	
Protein Equivalent of Combinations to Steak	
Combination in best proportions	Steak protein equivalent
2 cups rice + ½ cups peas or beans	= 9.5 oz.
2½ cups rice + ½ cup soybeans	= 9.25 oz.
1½ cups rice + 2 cups skim milk	= 7.75 oz.
1½ cups rice + 2½ oz. cheeze	= 7.75 oz.
4 slices whole wheat bread + 1 oz. cheese	= 2.5 oz.
1 cup whole wheat flour + 2 tbs nonfat dry milk	= 3 oz.
1½ cups whole wheat flour + ¼ cup beans	= 4.6 oz.
1 cup whole wheat flour + ½ cup soy flour	= 4.1 oz.
6-7 cornmeal tortillas + ¼ cup beans	= 2.6 oz.
½ cup nonfat dry milk + 1 cup beans	= 8.33 oz.
1/3 cup peanut butter ½ cup skim milk + 6 slices whole wheat bread	= 10.1 oz.

Source: Lappe'

Proceedings: Bioconversion Energy Research Conference

Institute for Man & His Environment
 University of Massachusetts
 Amherst, Massachusetts 01002
 Methane fermentation, soiled waste recovery, anaerobic digestion, fuel gas from solid waste. Technical

"Life Support Requirements for Space Missions"

Charles M. Proctor. Journal of the Sanitary Engineering Division, proceedings of the American Society of Civil Engineers. April, 1965

CONSUMER'S FOOD COUNCIL

6844 SW 62nd Pl. Portland, Or.
 As well as consumer legislation they have published pamphlets on pressure cooking, soap making,...

The 10 countries with highest per acre yield of agricultural products are: Taiwan, U.A.R., Netherlands, Belgium, Japan, Denmark, West Germany, Republic of Korea, Ceylon, Norway.

INSTITUTE FOR LOCAL SELF RELIANCE

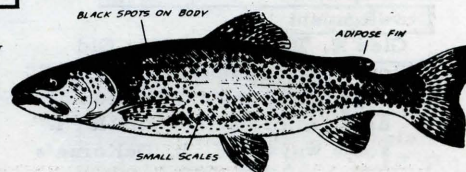
1717 18th St. NW
 Washington, DC 20009

The study proposed in this document will concentrate on a specific urban neighborhood---Adams--Morgan in Washington, D.C.---and will survey the possibilities for a neighborhood level food system, integrating waste utilization techniques and new local energy generation. Areas of investigation will include urban gardening, hydroponics, acuaculture, biological waste conversion, and solar and wind energy.

AQUACULTURE. The New Alchemists. PO Box 432. Woods Hole, MA. 02543.

They are a research and education group working with ecologically derived forms of energy, aquaculture, housing and landscapes.

The "New Alchemy Journal" is a beautifully produced periodical for members reporting on current research. \$25 per annum. Recent article on the use of a specially fast protein producing fish and its application for small urban or country homesteads.



RAINBOW TROUT

Catfish Farming. \$12.95
 Agri-Books. Box 5001-AC
 San Angelo, Texas 76901

APOCALYPTION RECONSTRUCTION COMPANY

5265 NE 73rd Portland, Or. 97218
 254-4586
 Hank Patton, General Manager
 In conjunction with Latchkey, currently teaching beekeeping, beneficial insect husbandry, weather systems, cheese and yoghurt cultivation. An economy based on protein coupons.

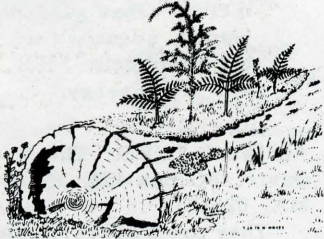
RURAL RESOURCES AND INFORMATION

PO Box 874
 Toppenish, WN 98948
 Establishing information exchange among persons living in country, forests and small towns.

**NORTHWEST CONFERENCE FOR
ALTERNATIVE AGRICULTURE.**
Nov. 21-23, 1974.

Being engineered by Becky and Woody Deryckx, and friends. Poplar Hills. Rt. 1, Box 64. Palouse, Wn. 99161. (509) 878-4503.

For people involved in Agriculture, both rural and urban. Land reform, alternative energy, marketing, economics.

**INTERNATIONAL INDEPENDENCE
INSTITUTE**

West Road Box 183

Ashby, Massachusetts 01431

Probably the central source of information about land trusts.

A very old network with roots in the thirties "acre and independence" movement, and Henry George (Progress and Poverty);

**Microfarms - A Proposal for
Development**

Glen A. Twombly. 1972. Old Route 202. Pomona, N. Y. 10970

A proposal and explanation of urban microfarms, similar in some ways to J. B. DeKorne's "Ecosystem".

The problems of human survival can only be solved by changes in the values, life style and environmental consciousness on the part of large sections of the population. Since the middle class urban/suburban portion of the society is most instrumental in setting and maintaining value systems and policies in this country this plan is directed primarily toward them.

**Energy Use for Food in the United
States**

Eric Hurst. Oak Ridge Nt. Lab.

ORNL - NSF - EP - 57

Oct. 73. 32 PP

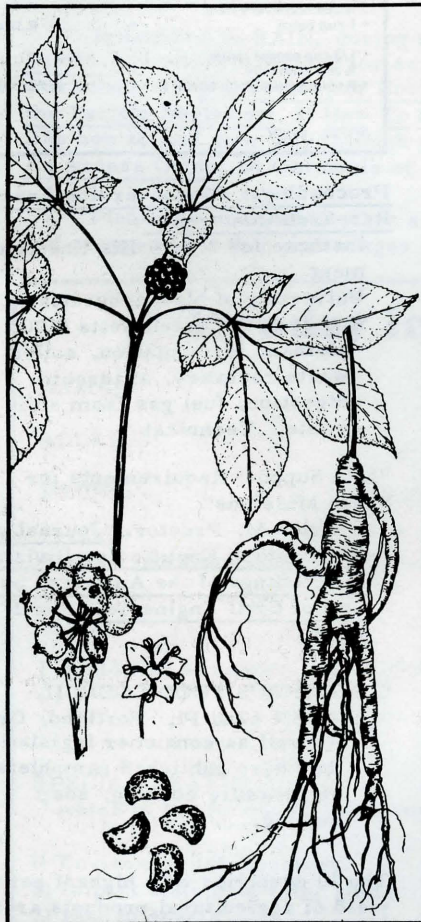
The loaf of bread you bought today costs as much in energy as you would consume if you were to drive your car 40 or 50 miles.

Water Recycling

by Rafael Montanaro, Laboratory for Maximum Potential Systems, School of Architecture, Univ. of Texas, Austin, TX 78712 \$5.00
Residential water use options incl. low water, grey water toilets, reducing use with spray showers, foot pedal-actuated faucets, etc. (1j)

**An Algal Regenerative System For
Single-Family Farms and Villages**

C. G. Colueke & W. J. Oswald
Research on the utilization of algae for the reclamation of nutrients and water from agricultural waste waters, and on the development of photo-synthetic life-support systems. Progress report available from Sanitary Engineering Research Laboratory U. of California
Richmond Field Station
1301 S 46th St.
Richmond, Ca. 94804
\$2.00 (Check to: Regents of the University of California)



OREGON HERB SOCIETY
6825 SW Capitol Highway
Portland, Or. 97219

**FIRST ANNUAL NE WASHINGTON
HARVEST FESTIVAL AND BARTER
DAYS.**

Was held Sept. 28&29, 1974; to give people a chance to sell or barter their excess of food they have grown or gathered.

And watch these pages for more on bartering in upcoming issues.

The fossil fuel energy consumed by tractors in the United States is about equal to the total energy yield for US agriculture.



--see also energy

AIR**Hang Gliding**

Aeron Industries Incorporated
9985 SE Eastmond Drive
Gresham, Or. 97030
663-4915 665-8560

PSU Flying Club
Portland State University
PO Box 751
Portland, Or. 97207

Cygnus Sky School (hang gliding)
PO Box 244
Rhododendron, Or. 97049

see also Energy

ARCHITECTURE**Sweet N' Sour: An Alternative Archi-
tecture Catalog**

Pliny and Daria Fisk
Laboratory for Maximum Potential Systems
Architecture Dept.
University of Texas 70712
A specifications/description of various commercially available architectural materials.

"Will the New Consciousness of Energy Create an Imploding Metropolis?"--Herbert M. Franklin and

"The Varied and Early Solar Energy Applications of Northern New Mexico"--Jeffrey Cook, AIA

In AIA Journal, magazine of the American Institute of Architects.
11735 New York Av. NW.
Washington, DC 20006
August, 1974

THE AUTONOMOUS HOUSE

30 academic studies on the self-powered, self-sufficient home are available from Mr. J. B. Thring, Technical Research Division, Dept. of Architecture, University of Cambridge, 1 Scroope Terrace, Cambridge, England CB2 1PX. Ask for their publication list. (lj)

see also Shelter, design

ART

ART OF THE PACIFIC NORTHWEST; from the 1930's to the Present.

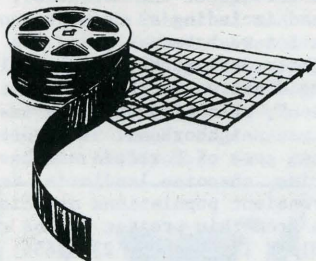
Organized by the National Collection of Fine arts of the Smithsonian Institute. Portland Art Museum. Sept. 19 through Oct. 13.

ON SITE, a sculpture in the Environment Magazine.

60 Greene St.
New York, NY 10012
September issue on energy.

see also Audio visual

AUDIO VISUAL



N. W. Film Studies Center
Portland Art Museum
SW Park and Madison
Portland, Or. 97205 226-2811

Classes this fall:

1. "Film and the American Dream 1900-1960". Films and lectures on American culture in the 20th century. Oct. 3--Nov. 14.

2. "Film Painting". Concepts and Techniques of making hand drawn film. Oct. 14-Dec. 18.

3. "Introductory Filmmaking". Introduction to 16 mm film production and field experience. Oct. 8-Nov. 26th.

4. "Workshops in Television Production". As well as TV production, video as art form, aural and image feedback, colorization, image manipulation and studio practices. Oct. 7- Dec. 9.

IMAGES, a newsletter for the people of Coos-County, Oregon. Coos County TV. PO Box 641. Bandon, Or. 97411.

Coos County TV is five people working on developing community education and information materials on land use planning. Producers of "Coos County: The Future is Now"; "Hands On" (citizen planning); and "People and the Land". Funded by federal Title I money, administered by State of Oregon Educational Coordinating Council.

We have heard from Thomas M. Doggett, Director of Programming and Production, OEPBS, that KOAC Radio TV is in the process of developing a short series of programs with the OSU Federal Cooperative Extension Service regarding construction of homes for most efficient energy usage. These will probably not air before the first of the year. (M. L.)

CREATIVE OUTLET

201 SE 12th
Portland, Or. 97214 233-3654

Currently the Outlet's focus is the Neighborhoods in Transition project (see History), the development of an "electronics bench"--to include tools and information for editing video tapes, a monthly hands on video workshop (see calender), communication consultation for low income persons, non profit groups, and dark room, still photography work. (see also "GROW" under education).



see also Media, Energy

COMMUNITY

Small Town. Newsletter of Small Towns Institute
PO Box 517

Ellensburg, WN 98926
Information regarding making small town America a viable alternative to congested cities and the sprawl of suburbs.

Decentralized Communities, subject of The Limits of the City, M. Bookchin, Harper Colophon, 1974. \$2.75

Rural New Towns: Toward a National Policy. Shimon Gottschalk

Center for Community Economic Development
Cambridge, Massachusetts 02140
22pp. 1971

Proposes a policy for rural new towns for America as an alternative to migration for rural poor families.



OFFICE OF NEIGHBORHOOD ASSOCIATIONS

405 City Hall 248-4519
Portland, Or. 97204

Mary Pederson, director, has written a paper called "Neighborhood Organization in Portland", available on request. Also published in Portland Scribe. 215 SE 9th. Portland, Or. 97214. The Scribe weekly publishes a neighborhood news column which supplements the Office of Neighborhood Association's newsletter--which is an excellent source of information about hearings/conferences concerning neighborhoods of Portland.

Scientific American. Sept. 1974. Population, entire issue. Migration, history, food, transfer of technology. \$1.25. (B. P.)

Human Settlements Symposium (Sept. 11-13) offered alternative approaches to understanding human settlements, information on current alternative human settlements to our large cities, and the opportunity for Spokaneites to brainstorm on the future of their human settlement.

see also Agriculture•Food, History

COMPUTERS

People's Computer Company
PO BOX 310

Menlo Park, CA 94025
Newspaper \$4.00 for 5 issues (school year). Games, research, art, computer films, computer poetry. Both by resident People's Computer people, and elsewhere.

COMPUTERS CONTINUED PAGE 8

ECO NET REPORTS

EEC

A lot has happened in the last several months. The Environmental Education Center has been presented with both new resources and opportunities. These events have suggested the necessity for a reorganization of both our people and our thinking about the "big picture" of environmental education in the tri-county area, the Pacific Northwest and the nation.

PEOPLE

Director of four funded projects for FY 74-75 is Don Stotler.

Environmental Education Center (Environmental Ed. Act) PSU fiscal agent, Laura Williamson, manager.

National Demonstration Center at PSU (Environmental ed. Act), PSU fiscal agent, Laura Williamson, manager.

Energy Center (Environmental E. Act) OMSI fiscal agent, Dean Ivy, manager.

Environmental Communications Network (2nd of 3 yrs.) Hill family foundation. OMSI fiscal agent. Dean Ivy manager.

ECO NET

Because we feel that all four of these projects constitute a common thrust toward an environmentally concerned, literate, active, and aware future society, we are calling this common thrust Eco-net.

PRIORITY OF CONCERN

Although each one of the above projects has specific objectives all projects share general goals and areas of priority concern and action.

These areas of common concern are:

Centers

EEC---remodelling and new rooms
Action toward Bi-Centennial
Three new employees (Randi Krogstad, Anita Helle, Steve Johnson)
Energy Center (OMSI)--now underway
Spokane Center--U.S Pavillion retained after EXPO?
Cleveland High School--Eco-Aesthetics Center?
Hillsboro Public Schools-- community center?

Information Exchange

Bend In The River and Syncon conferences
NW Video Network
SHARE-- computerized Eco-exchange
RAIN--new eco-net newsletter
Slide show with audio tape on centers

Data Gathering by Students

Noise and water quality proposal

information, access to computer services and assistance; access to technical and legal environmental information on a crisis basis. Lots of other topics were touched on. The group asks you to brainstorm on your own and with co-workers and friends on information needs, information sharing projects, techniques and the NW environment. For regional Eco-net brainstorm group minutes, for more information, contact Dean Ivy, OMSI, 4015 SW Canyon rd. Portland, Or. 97221. 224-9500.

ECO NET Video

One of the components of the ECO NET project is a video access facility where you can learn to use portable, 1/2 " television equipment. The video staff, Bob Phillips and Charles Auch, are located at OMSI and can be reached by phoning 224-9500.

The video equipment, three portable camera/recorders and an editing system, serves as a means for anyone to document environmental ideas and problems. Tapes in the ECO NET files can be seen at the EEC or OMSI. In addition, Bob and Charles are cataloging tapes produced elsewhere in the Northwest with the assistance of Jack Eyerly (of Experiments in Art and Technology) and Carole Smith.

The catalog process involves a printed format for information about individual tapes, along with the conditions for access and the names/addresses of producers. If you have tapes and would like to have them included in the catalog, write to ECO NET Video, % OMSI, 4015 SW Canyon Rd., Portland, Or. 97221. The catalog forms should be returned to OMSI, where they will be reproduced. The catalog will consist of the combined entries of all contributors and will be distributed to everyone who participates in it. Additional copies will be available through access points throughout the Northwest, or by writing ECO NET Video and including a check to cover whatever costs of reproduction we have.

Examples of video projects during the summer include equipment assistance to the Creative Outlet's project, "Neighborhoods in Transition", which is compiling images/history of Portland's Buckman neighborhood. The Buckman neighborhood is in the urban core of Portland and has many of the problems of crime, absentee landlords, industrial encroachment, and transient populations associated with that location. Tapes from this project can be seen at the Creative Outlet, 201 SE 12th, phone 233-3654; talk with the Director, Ed Lyle, for further details.

Tom Taylor, of PSU's Center for the Moving Image, has worked on his project, "Cannon Beach, a Community Conversation", spending most of his time with the people of Cannon Beach, sharing the ideas that individuals have of their town. Tom comes back to OMSI to edit and condense these statements. He then returns and plays the edited tape for each of the participants. The conversations Tom has with his neighbors are part of a feedback process; everyone has the right to delete or change their statements. After the edited tape is shown to individuals, Tom plays it for the community at large. These edited tapes then provide the impetus for further discussions. (See also Audio-Visual)

Energy Center

My main task so far has been creating an Energy Information File. This has turned out to be a much more involved undertaking than I think anybody had originally thought it would be. Especially since the information is nationwide and with Canada and some foreign resources included. Thus far, I have gleaned information from several lists and sources, i.e. directories, guides, etc., to compile a random list. From

Boise ECO NET Meeting

15 people from 15 Northwest region environmental education groups and projects met to suggest information sharing methods and ideas which would enhance individual projects. Initial focus areas included--media access

this list, I have done one bulk mailing which was in the form of a cover letter and a very short form asking for names of individuals, affiliations, and contact persons in said affiliations. The response to this mailing which was about 200 plus has been excellent. So far I have received 75 responses in 2 weeks. Out of this I will compile a list of names to which the Energy Questionnaire will be sent. This is a more detailed form and will give me the exact information I need for the Rolodex Card File. The Rolodex Card File will eventually be placed in the Energy Center in an information exhibit.

If you would like more information on the Energy Information File, or would like to receive the Alternative Energy Information Sheets and the Solar Energy Collection Abstract, Wind-Powered Electricity Generation Abstract, Methane Gas Generation Abstract, etc. please call Marcia Lynch, 224-9500 x 72. (Marcia Lynch)

Lee Johnson has begun to receive commercially-manufactured solar collector panels for display in the Oregon Museum of Science & Industry Energy Exhibit Wing designed by Architect Explorer Post sponsored by Skidmore, Owings & Merrill. So far, Olin Corp., Tranter and Fafco have accepted the invitation to participate in the exhibit, which will be seen by OMSI's 1 million annual visitors. PPG Industries, Reynolds Metals, Energex, AAI, Intertechnology, Sunworks, Solar Systems, Mirromit-Daylin Corp., and Beasley of Australia have not yet responded. A Spring 1975 conference of Oregon architects, developers and building systems engineers is contemplated as an opening for the Solar Energy Exhibit (L.J.)

Lee's testimony "Wind and Nuclear Fission Electricity: A Cost-Benefit Comparison" was well received by Mr. Jack Robertson, Region X Federal Energy Administration coordinator and the other panel members, as was his description of the OMSI Energy Center as classes, workshops, conferences and an information center with displays. Copies of the statement are available for \$1 from Marcia Lynch, OMSI Energy Center. (L.J.)

Graham Hubenthal and Lee Johnson visited Tom Bender and Laura deMond in Salem on their way back from returning the U of O microfilm machine. Nancy Carpenter and Sam Sadler are now beginning "mini'studies" using net energy to look at the things Oregonians are now doing or likely to do as we move toward recession, greater labor use, in a net energy declining society.

Laura is working on a LIVING LIGHTLY IN OREGON catalog, a cross between the Whole Earth Catalog and Chinook Centrex with the emphasis on what Oregonians can do and what the net energy concepts suggest about what they should do. Tom recommended that we subscribe to APPROPRIATE TECHNOLOGY, a newsletter published by E.F. Schumacher's Intermediate Technology Development Group, Parnell House, 25 Wilton Rd., London SW1v 1JS, UK. Airmail outside England is \$8.50. Tom also suggested that we read Ivan Illich's ENERGY AND EQUITY and TOOLS FOR CONVIVIALITY. (L.J.)

SHARE 1

Share is presently a fantasy, designed to be part of OMSI's unified data base project (UDB-1 by name).

Rusty Whitney, Barry Smith and others are experimenting with a computer program devised to enable people to get in touch with one another.

The program is similar in ways to others around the country such as Resource One's "Community Memory" and People to People Indexes such as Evergreen State College's (Washington), the Couzens Computerized Learning Exchange (Ann Arbor, Mi.) and Bend in the River (Eugene).

What does Share give members?

Information from other members---Other SHARE members will contact you according to the interests which you have specified in your registration.

Directories & Mailing Lists---Members can use a computer terminal to create telephone and address lists of SHARE members with specific keywords or zip codes. For instance, an editor of a club newsletter could maintain her mailing list by sending SHARE registrations to her membership urging them to include the club name among their keywords. There are many other uses.

Bulletin Board---Members may use a SHARE computer terminal to place a short notice on the SHARE Bulletin Board. Members may also list the Bulletin Board to get recent notices or only those with selected keywords.

SHARE Essays---From a few words to a couple pages, SHARE Essays deal with different topics of interest to members including ways to use SHARE better, thoughts on current environmental and educational projects, privacy, etc.

For more information call Steve Johnson, 229-4692.

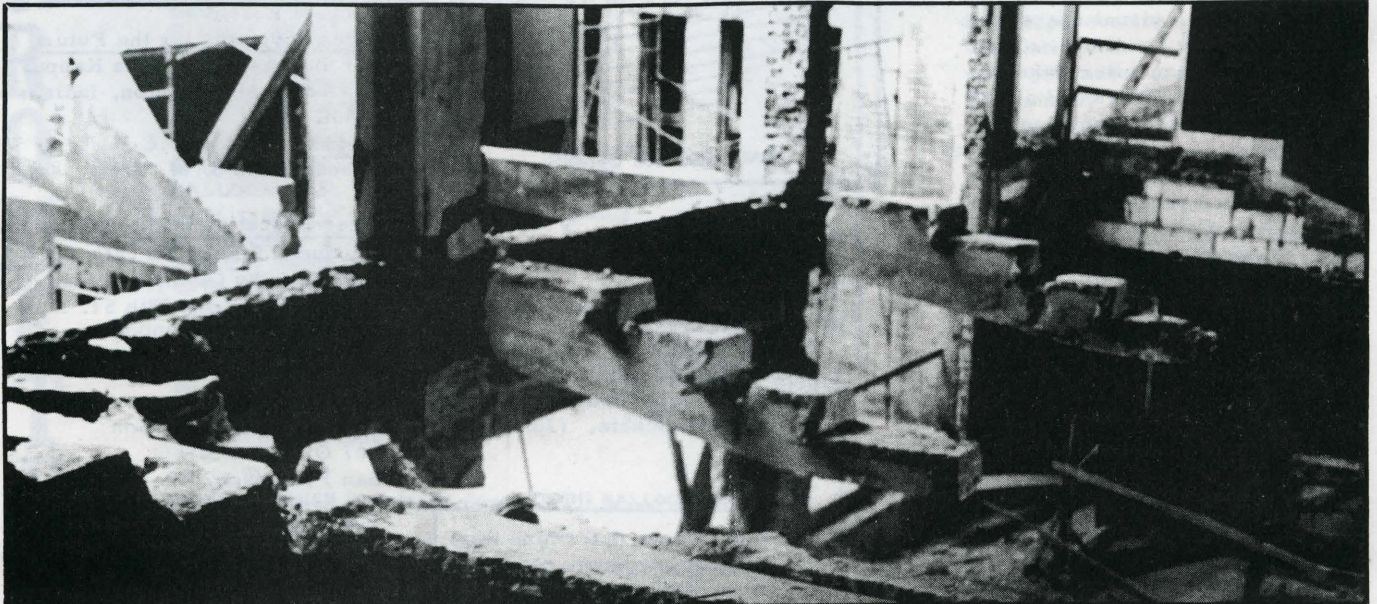


Photo: Anita Helle

We apologize to those who may have had difficulty reaching us during construction time at Portland State.

RESOURCE ONE

1380 Howard St.

San Francisco, CA 94103

A computerized contact, resource and research center. Computer programs developed for Bay area include an urban data base, social service directory, (240 agencies) accounting house for non-profit agencies, people resources (similar to Share One, OMSI), vocations for social change, non profit organization mailing lists. Terminals in several locations, where persons can also enter bulletin board kinds of information.

Portland State University Computer Center Newsletter

PO BOX 751

Portland, Or. 97207

CITY - COUNTY SECURITY & PRIVACY ADVISORY COMMITTEE
248-4120II Cybernetic Frontiers

Stewart Brand

Random House/Bookworks, 1974

About fanatic Space-War (Computer game) Participants around the country and other unusual uses of computers.

The vision helmet designed by Ivan Sutherland of Harvard. The helmet covers the front of your face with special goggles that are tiny computer driven TV screens. They present you with a visual space in which you can move. The computer monitors where your head moves and alters what you see accordingly. . . your head goes forward a foot and in the vision you soar a hundred yards.

Also in Cybernetic Frontiers Stewart Brand's encounters with Gregory Bakson (Steps to an Ecology of Mind)

No organism can afford to be conscious of matters with which it could deal at unconscious levels. If lake Erie is driven insane, its insanity is incorporated in the larger system of your thought and experience.

see also networks, social services

CONSCIOUSNESS

PSI Revolution Synergy Access issue. #5, April 1974. 21st Century Media. 606 5th Av. E. Northport, NY 11731. \$5.00/year.

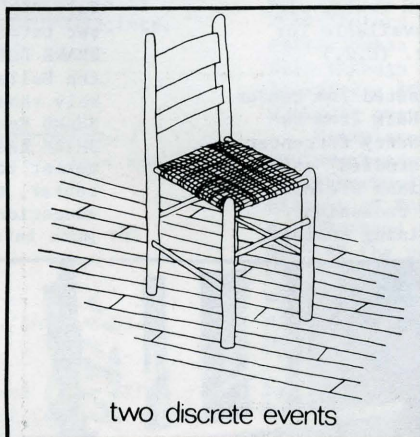
Wes Thomas's information density packaging is only surpassed by the Oxford English Dictionary?

Karl Hess, 10 years ago was a speech writer for Senator Goldwater. Now lives in Washington DC's Adams-Morgan District, growing trout, working with the Institute for Self Reliance.

The Brain Revolution
Marilyn Ferguson

Injected with substances isolated from the urine of schizophrenics, volunteers have begun to hallucinate.

The human brain is sensitive to weak magnetic fields. Mental activities can influence a nimbus energy made visible by a high-frequency electrical field. This has been called the "Kirlian Effect" by Soviet researchers.

East West Journal

29 Farnsworth Street

Boston, Ma. 02210

\$5.00 per 12 issues

Solar energy, Paolo Soleri, psychotronics, whirling dervishes, Gurdjieff, Uri, whole foods directory, Joel Schatz. (July 1974 issue)

"The life experiences determine what parts of the endowment are converted into functional attributes." (Rene Dubos. Man Adapting)

EDUCATION

A class in ALTERNATIVE ENERGY SOURCES for High School & Adults is being offered at OMSI this Fall. The instructor for this class will be Temple Larrabee.

For the Energy Center Mr. Larrabee is staff design and consulting engineer. This past summer, Mr. Larrabee has been working up the design of a one meter diameter 3 meters high vertical shaft savonious rotor windmill. He will also soon be working on the design of a horizontal axis propeller driven windmill. He is now in the process of drawing up a solar fruit dryer, polishing up and assembling a calorimeter for direct measurement of the solar radiation, and making final modifications on a photoelectric pyroheliometer, (also for the measurement of the sun's energy). Mr. Larrabee is also gathering information and catalogs of specialized parts needed for some of the special projects now in progress and projected. (M.L.)

The National Science Teachers Association is preparing an energy packet under contract with the U. S. Office of Education. The address of the NSTA is 1201 16th St. NW, Washington, D. C., 20036.

DeSchooling Society

Ivan Illich. 1970

School is Dead

Everett Reimer

On Learning and Social Change

Michael Rossman

Learning Systems for the Future

Ron Barnes. Phi Delta Kappa. Box 789. Bloomington, Indiana 47401. 50¢

Tegs 1994

Theobald and J. M. Scott

Career Education in the Environment

Produced for the US Office of Education by Olympus Research Corporation. 818 18th St. NW Washington, DC 20006

Prisma, a newsletter on private and alternate education
467 O'Farrel Street

San Francisco, Ca. 94102

A San Francisco bias.

For Oregon Prisma representative, write: Harriet Smith

Rt. 1, Box 109

Philomoth, Or.

97370

BEND IN THE RIVER EDUCATION COUNCIL

Gary Betts
Rt. 1, Box 113
Dufur, Or. 97021

Trying to implement the proposals brought out at the Bend in the River Council.

Grow

A free 12 week course in organic gardening. Janet Rullo, coordinator. Funded through Creative Outlet. Participants grew their own on a plot at 22nd and NW Pettygrove, while being instructed by teachers from PSU, PCC, Mt. Hood, OMSI and Extension Services. Still remaining. Oct. 3rd canning and preserving. 228-7987

GEE. Group for Environmental Education, Inc.

1214 Arch Street
Philadelphia, Pa. 19107

Publishers of excellent, especially urban environmental education materials. Making the City Observable. Description and extension of a traveling exhibit of maps, photos, simulations: ways to perceive the city. Currently being redone/enlarged. Ask for publication list.

OMSI'S IN SERVICE WORKSHOP PROGRAM, for elementary and High School teachers. Call 224-9500 for more information.

Oct. 11. Indians of Oregon and Washington at Potlatch house, Ariel Washington. 10AM-4:30 PM. \$7.50 non-members. \$6.50 members.

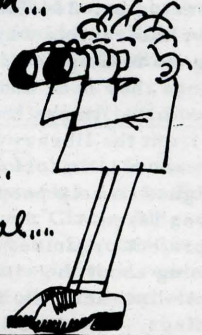
Oct. 11, 12, 13. Geologic History of the Central Washington Scabland area. \$42 non members. \$40 OMSI members.

Oct. 19. Sound and People. Techniques of measuring sound and noise, and relation to new standards, for noise pollution. \$6, \$5 OMSI members.

WITHIN YOUR SCHOOL TRY FINDING:

- *Something that looks like you...
- *Something soft....
- *A relic of the past...
- *Something scary!!...
- *A secret....
- *A hiding place....
- *Something free....
- *An omen of the future...
- *Magic...
- *A moral....

CARD NO. 1



Catalog of Teacher Incentive Projects 1972-73

A subprogram of the Oregon Small Schools Program. Oregon Board of Education 942 Lancaster Drive, NE Salem, Or. 97310

More teachers in the schools listened to the disc-jockey broadcast than was expected. (Medford Mid High School). . . Each group will be given two 24 hour weekend experiences of living in a house. (Portland Children's Center School). . . . Raising the cognition level of student questions (Prospect high school). . . To determine which class got the Plague Award, a point system was developed (Grant Elementary School - Salem). . . . Mr. Johnson invited a different craftsman to come every Friday for four weeks (W. L. Henry School - Hillsboro). . . . Twenty hats representing a variety of occupations in the community were purchased (Jefferson Elementary - Cottage Grove). . In this project a combined class of third and fourth graders write, edit, produce and mail a newspaper to third and fourth grade classes throughout the state. (Bush Elementary - Salem). . . the vehicle for this was a small portable trailer installed next to the school and used as a communications center for informal discussion groups. (St. Paul Parochial, St. Paul, Or.)

EXPLORING SEATTLE, course taught by John Hancock, Richard Fleming, Donald Tubbs, summer 1974, Institute for Environmental Studies, University of Washington.

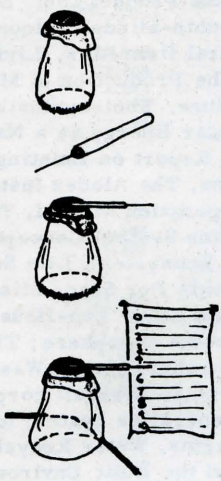
CONTINUED ON PAGE 10

**B
A
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R**

A BAROMETER MEASURES AIR PRESSURE. AN INCREASE IN AIR PRESSURE MEANS COOLER AIR IS COMING. A DECREASE IN AIR PRESSURE MEANS WARMER AIR IS COMING.

TO MAKE YOUR OWN BAROMETER:

1. STRETCH A PIECE OF BALLOON OVER THE NECK OF A BOTTLE. FASTEN IT SECURELY WITH A RUBBER BAND "PULLING OUT" ALL THE WRINKLES.
2. GLUE A LARGE NEEDLE INTO THE END OF A STRAW.
3. GLUE THE OPEN END OF THE STRAW TO THE MIDDLE OF THE BALLOON CAP.
4. ON A PIECE OF PAPER, MARK 11 STRAIGHT LINES, EACH 1/8" APART. NUMBER THE LINES 0 TO 10.
5. FIND A PLACE TO SET UP THE BAROMETER WHERE YOU CAN TACK OR TAPE THE PAPER TO THE WALL. PLACE THE PAPER SO THE NEEDLE POINTS TO THE NUMBER 5. (SOURCE: ALLAN BATES)



WHEN THE AIR IS HEAVIER, IT PRESSES DOWN ON THE BALLOON CAP & CAUSES THE NEEDLE TO --- THIS MEANS THE TEMP. WILL GET ---

WHEN THE AIR IS LIGHTER, THE BALLOON CAP RISES & CAUSES THE NEEDLE TO --- THIS MEANS THE TEMP. WILL GET ---

From: Zephyros Education Exchange
1201 Stanyan st.
San Francisco, Ca. 94117

EDUCATION
CONTINUED FROM PAGE 9

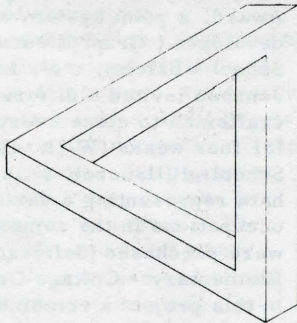
KNOWLEDGE FOR USE PROJECT.

Phil Pennington, 244-9122.

A new, alternative way to learn. It's designed to help people find and learn things they need and might otherwise miss, things too difficult to learn from the library and too buried in courses in formal education. It is designed to help people help themselves learn.

The project organizes knowledge and learning about the simple fact that people interact with their surroundings. The idea is to fuse the academic disciplines into some kind of integrated whole and then relate it to the individual as much as possible. The project will be a source of a variety of materials, including reference guides and aids to understanding reading that is otherwise a little too difficult. It will develop some learning units suitable for reference use or for classroom use.

The Knowledge for Use Project is planning three workshop series, one to start immediately. Energy and the Individual (starts last week of Sept.; time arranged to suit participants); Science and Perception For The Artist (starts in Oct.); and Humans, Systems, And Knowledge (to be arranged).



ENERGY AND MAN'S ENVIRONMENT. PO Box 200, Beaverton, Or. 97005. (503) 649-0443.

EME is an educational project sponsored by a consortium of the N.W. electrical utilities in cooperation with the State Depts. of Education in the seven Western States. EME is in the process of developing a balanced and objective energy and energy related environmental inter-disciplinary curricula for grades K-12.

An activity guide K-12 is available to teachers at \$2.95 a copy.

Director: John C. Jones
Ad. Ass't: Ms. Ina Ish

Promising Practices in Oregon Education, 1974

Compiled by Evelyn Gunter, for the Oregon State Department of Education, 942 Lancaster Dr. NE Salem, Or. 97310

Over 40, specially funded programs with emphasis on career education, administrative design, education for emotionally disturbed and "difficult" students, staff development.

see also Agriculture-Food

ENERGY

Alternative Sources of Energy

Ed. by Sandy Eccli. \$5.00

280 Whole Earth Catalog size pages

The best of the magazine, "Alternative Sources of Energy"; Ranging from metaphysical to practical on wind, solar, networks, art, water, fuels, conservation, life support systems.

MICROFILMING. While Lee Johnson and Graham Hubenthal had a rotary microfilm camera on loan from the University of Oregon, the following items were recorded for use on microfiche cards: Solar Energy Thermal Processes, Low Temperature Engineering Applications of Solar Energy, The Problem Is, Stop the Five Gallon Flush; Wind-Electric Heating Systems, Steve Coffel's ASE Product List, Energy Index to Dubin-Mindell-Bloome NYC architectural firm files, Living Lightly, The Production of Methane From Manure, Photosynthetic Reclamation, Solar Energy as a National Resource, Report on Existing Building Systems, The Alodex Installation and Operation Manual, The Ecological Home System Concept, Build Your Own Ecosystem, Life Support Requirements For Space Missions, The Graham Caine Eco-House, The Day Chahroudi Biosphere; The Integrated Household Water-Waste System by Gruman Aircraft corp., An Algal Regenerative System for Single Family Farms, Water Recycling, AIA Energy and the Built Environment: A Gap in Current Strategies, and New Communities for an Energy-Short Planet.

Lee and Graham are presently circulating a proposal to continue and expand their microfilming work. (Lee Johnson 224-9500)

Proceedings of the Hydrogen Economy Energy Conference sponsored by NSF, March 1974, available thru School of Continuing Studies University of Miami P.O. Box 8005 Coral Gables, FLA. 33124 (1j)

Small is Beautiful E. F. Schumacher. Harper & Row. 1973

There should be no place for machines that concentrate power in a few hands and turn the masses into mere machine minders.

Not surprisingly, therefore, if economic thinking pervades the whole of society, even simple non-economic values like beauty, health or cleanliness can survive only if they prove to be economic.

Give a man a fish, and you are helping him a little bit for a very short while, teach him the art of fishing and he can help himself all his life.

Just imagine you could establish an ideology which would make it obligatory for every able bodied person in India, to do that little thing -- to plant a tree a year, five years running. This in a 5 year period would give you 2,000 million established trees.

Ten cows burp enough gas in a year to provide for all the space heating, water heating and cooling requirements for a small house. (WTOP Radio, Washington, DC)

Dana C. Jennings, author, photographer is compiling a catalog for Garden Way Laboratories of supplies of hardware, plans, data, information and services for those working with alternative energy sources: sun, wind, etc.

If you or your group wish to be listed in the catalog, send data to Rt. 3, Box 177, Madison, S. D. 57042, in care of Dana Jennings (M. L.)

ALTERNATIVE ENERGY SOURCES PROGRAM

OMSI. 4015 SW Canyon Road Portland, Or. 97221. 224-9500

Covers all areas of natural energy harnessing with emphasis on wind and solar power, auto gas conversion systems. (Unfortunately probably filled by time this is printed)



Report of the Advisory Committee
Sponsored by the Energy Act.
(Chapter 780, Oregon Laws 1973)
Recommendations of energy policy
for the state of Oregon.
Sept. 1974

Environmental Action Reprint
Service

University of Colorado at Denver
1100 14th St.
Denver, Colorado 80202
Reprints, bumperstickers, posters,
wind, solar, nuclear, etc.
Ask for catalogue No. 2B.
Copies may also be available from
FOB Clearing House
Senator Bldg.
Portland, Or. 97204
228-6403

TOWARD A STEADY STATE ECONOMY.
Edited by Herman E. Daly.
W.H. Freeman and co. 1973.

Including: The Entropy Law and
Economic Problems. Nicholas
Georgesew Roegen.

The Economics of the Coming
Spaceship Earth. Kenneth Bolding.

Buddhist Economics. E.F.
Schumacher.

The Carrying Capacity of Our
Global Environment. Jørgen Randers;
Donella Meadows.

Energy Conservation Strategies

EPA - Office of Research &
Monitoring
Washington, DC 20460
EPA R5-73-021, July, 1973

ENERGY STUDY INTERIM REPORT

26 July 1974. Office of Energy
Research and Planning. Office of
Governor. State of Oregon. Salem,
Or. 97310. (503) 378-4924.

Methodology explained and preliminary
reports on 14 major current and
proposed energy delivery systems,
including coal gasification, solar
home heating, nuclear electric,
oil shale, etc.

11 ENERGY CRITERIA, outlined
by Mayor Goldschmidt (Portland),
in his statement to the FEA Portland
public hearings on Project
Independence; is available from the
mayor's office: 248-4128.

How to Challenge Your Local Electrical Utility

Richard Morgan, Sandra Jerabek
Environmental Action Foundation
720 Dupont Circle Bldg.
Washington, DC 20036. \$1.50
Utility regulation, energy conservation,
tax loopholes, rate-making formulas,
challenging a rate increase, additional
information referral.

Oregon's Energy Perspective

prepared by Governor Tom
McCall's task force on energy.
May 31, 1973. 138 pages.

The most complete report on
information being collected, especially
by the Center for Applied Energetics
Office.

Boise Cascade has announced plans
to open a geo-thermal heated nursery
near La Grande.

CONTINUED ON PAGE 14

BASIC REQUIREMENTS FOR ESSENTIAL SERVICES IN OREGON FOR ONE DAY

(A Partial Recap)

Category	OIL			Natural Gas Cu. Ft.	Electricity KWH	Bottled Gas CF	Fuel Serv.VH. Gal.	# Employ.	Commuting Gasoline Gals.
	Gasoline Gals.	"Oil"	Deisel Heat						
Ambulance Serv.	1,026	95		17,000	3,670				
Banks	2,153		1,723	72,398	173,030	85	730	213	170
Blood Banks	314	31		1,543			566	9,270	7,416
Interurban Bus		45	5,526	7	4,546		202	42	34
City Transit	802	135	10,992	50	4,200	35	31	421	337
Funeral Homes							116	912	730
TV Stations					16,200				
FM Radio					180,000				
AM Radio					1,460,000				
Dentists	3,020		268	110,000	60,000			4,250	3,400
Doctors				1,750	150,000			10,500	2,100
Farms	175,334		72,778		1,198,257	1,105		18,400	14,720
Fire Service	138,000		92,000	7,010,000	3,890,000	22		9,932	4,630
Government					1,471				
Hospitals	51	16		1,682				31,700	25,360
Med. Warehouses	1,500			252	8,350		1,360	505	404
Clinical Labs	1,610	8		3,670	32,600		150	2,091	1,672
Nursing Homes	8,660		4,810	88,000	155,000	10	305	7,460	6,560
Pharmacies	10	1		1	279		7	746	599
State Military	42		1,020	1,365	23,882				
Air N. Guard	14,508		700						
Army N. Guard	2,061								
Inland Water Carriers			17,260					3,776	3,021
Off Shore Shipping			10,137						
Subtotal	349,091	331	217,214	7,307,718	7,361,485	1,257	3,535	100,218	71,153
Airports	14,314		202,850 ^k				1,400	6,830	17,075
Add. to Banks	822		1,233	8,219	213,699			4,445	3,572
Railroads	NA		NA	NA	NA			9,200	7,360
Subtotal	364,227	331	421,297	7,315,937	7,575,184	1,257	4,935	120,693	99,160
	34.6%		16%	3%	9.3%				

k = Kerosene

THERE IS A LOT OF MAPPING going on in Oregon and Washington, by federal, state, county, city and regional governments, and by private agencies, but unfortunately there is a long way to go before complete adequacy is in sight.

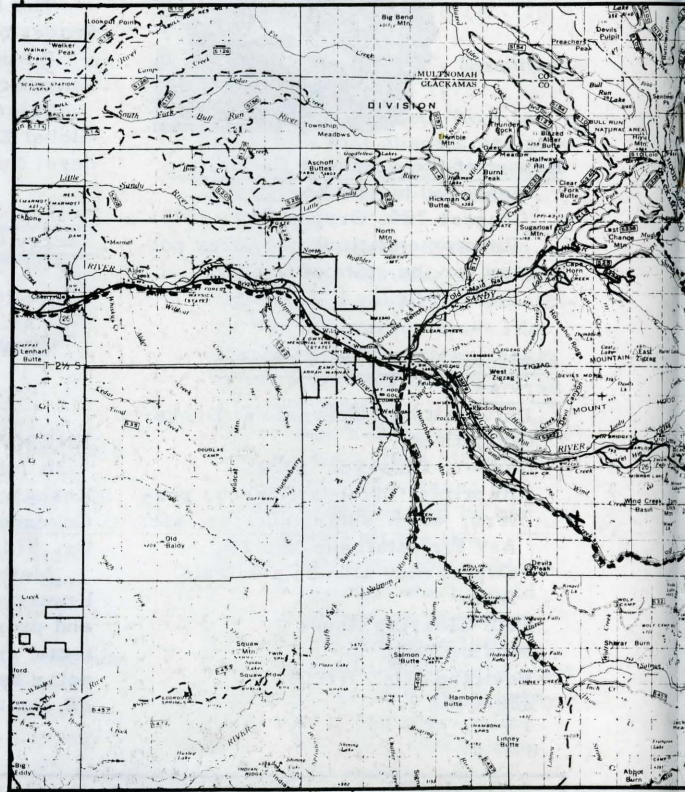
The four most important federal mappers are the Coast and Geodetic Survey, the Geological Survey, the Forest Service, and the Bureau of Land Management. The first, with its coastal charts and its nets of mathematical triangulations, underlies all the others. The Geological Survey is responsible for two current series of maps, both incomplete, and some superseded series too, also incomplete; furthermore its maps are the underpinning of the famous Army Map Service mapping, the series which for the first time in history, was pushed through to completion for every acre of American soil.

The Army series (issued also in a civilian version, handled by the Geological Survey) while admirable in many ways, must be given low marks in certain fields, notably legibility. Why two versions, a military and a civilian? I've seen them both; the difference seems to consist in just one feature: the grid or land net. The military version displays the ten-kilometer military grid, an entirely fictitious grid resembling (but not identical with) latitude and longitude. The civilian version displays the net of townships, a real, not fictitious, grid, inasmuch as it is actually marked out by witness trees, stakes, and landmarks.

Many would like to own at least one of the famous moulded plastic relief maps which have been made by an Eastern firm on the basis of the military version of the Army series. They're now available through retailers, after a long period of limited distribution through a military map office only. Captain's, a map shop which just opened in downtown Portland, sells them at around \$10 each. The flat paper version hovers around \$1 or a little more.

These Army maps are almost too stingy in their scale to be of great use to the walker, bicyclist, or leisurely motorist. They are at the scale of 1:250,000, yielding a mile which is only 1/4 of an

Where to



US Geological Survey

Map Information Office
Washington, DC 20242

Ask for all indexes to maps.

Atlas of the Pacific Northwest

Richard M. Highsmith Jr.
Oregon State University Press, Corvallis
5th Edition 1973 \$7.50

Over 150 maps; fog, precipitation, cropland, forest land, transportation, manufacturing, vegetation, dams, wind, geology, newspaper circulation.

Oregon Atlas

Being prepared by William Loy, University of Oregon

Erwin Raisz Maps

130 Charles St.
Boston, MA 02114

Classical land form maps. Dense with information. Somewhat old. Cities just barely visible, putting man in his place.

The National Atlas of the United States

US Geological Survey. 1971. 431 pp. 14 pounds. \$100
1200 S EADS St.
Arlington, Va. 22202

8 years in the planning. Election districts, agriculture, exploration, battlefields, climate, population, etc. Also very expensive reprints of pages available.

Columbia Area Region Assn. of Governments

6400 SW Canyon Court 297-3726
Portland, Or. 97221

Maps of various usefulness and currency. Ground water, zoning, topography, transportation. In general I think the most complete information in Portland area, along lines of information necessary for impact statements, zoning, land use planning.

Oregon Department of Geology Mineral Industries

1069 State Office Bldg.
Portland, Or. 97201

Maps of particular geologic areas, especially cascades and eastern Oregon. Some general free maps on mineral deposits.

Especially good:

Thermal Springs and Wells of Oregon, detailed information, including temperature and flow.

Also:

Geological Highway Map: Pacific Northwest Region

Published by the American Association of Petroleum Geologists. Distributed by Dept. of Geology Mineral Industries

US Forestry Maps

319 SW Pine
Portland, Or.

National Forest and Wilderness Area maps. First 5 are free. 15¢ each additional. Entire set (Oregon and Washington) \$1.50

Also: National Forest Campground Directory for Oregon and Washington. 95 pp. Free

Also: Forest Trails of the Columbia Gorge

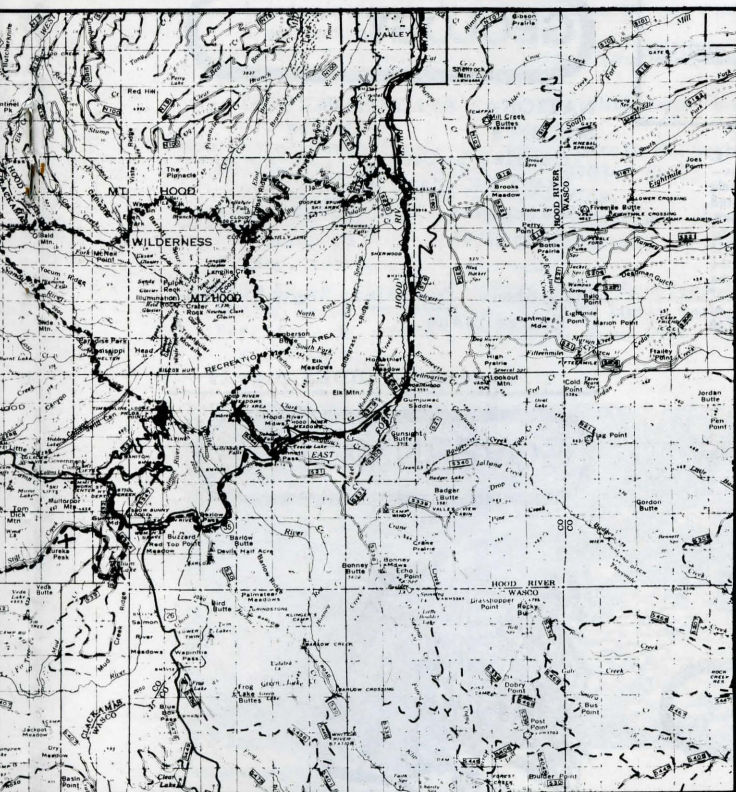
Also: Ranger District Maps - only sometimes available

Map Distribution

State Highway Bldg.
Salem, Or. 97310

An excellent state highway map, free. For low prices you can get air-photo-base maps of nearly all congested areas; black & white maps of all cities, except Portland. County maps. Drawback: some counties dissected into numerous sheets. Exhaustive legend/information.

get maps



inch long. The one big advantage of this series is that it is complete--has no gaps--a point not to be sneezed at if you have had the common experience of finding that your favorite series has a hole just where you were depending on it to help you.

The Geological Survey also handles its own two series, called the "mile per inch" and the "2000-footer." The first has a scale of 1:62,500, which yields a mile so close to an inch in length that the difference is negligible. This series is printed in sheets about 17x21 inches in size, each covering a quadrangle 15 minutes of latitude and longitude on its sides. The oblong measures about 12x17 miles in area. Each oblong bears the name of some town, mountain, or lake within it. Local retailers ask about \$1 per sheet; if you're in no hurry you can send off to Geological Survey, Federal Center, Denver for their index or key maps and their price lists, generally about 75 cents per sheet. The series has extensive and disgraceful gaps. Nearly all Western Oregon is covered, and about a third of Eastern Oregon.

A more generous scale, 2000 feet per inch, characterizes the other Geological Survey series. Like the mile-per-inch, it shows land forms by means of brown lines called contours. On the whole, it is this series that the Geological Survey is pushing nowadays, while the other series marks time. The mappers are going great guns through the wide-open spaces of Eastern Oregon right now, and, after having just revised the Puget Sound and Willamette Valley coverage at this scale, are heading west through the Coast Range. This is the series to get, if you can afford it. Prices are the same as for the other series, around \$1 per sheet. But where a given area will be covered by only one or two sheets in the mile-per-inch series, it will require four to eight sheets for the same area in the 2000-footer series. The oblongs are about 6 x 9 miles, or 16 x 23 inches, in area, and the latitude-longitude quadrangle is 7 1/2 minutes on a side. Bulky and unwieldy.

--Bob Benson

THIS ARTICLE WILL BE CONTINUED NEXT ISSUE.

Property Ownership

Though Metsger Co. produces detailed property maps available at many outlets (J.K. Gills in Portland) the only up to date information is available from County Assessment Offices. In Multnomah County 1021 SW 4th. 248-3326

Soil

In Portland, Soil Conservation Survey
1218 SW Washington
Portland, Or. 97205 221-2751

Maps for general soil condition and on site survey.

Oregon Historical Society

1230 SW Park 222-1741
Portland, Or. 97205

A fine collection of old maps.

Coos County Carrying Capacity

% Office of Applied Energetics 378-4399
185 13th NE
Salem, Or. 97310

Mary Pederson, who worked on a carrying capacity study for Orlando, Florida (Near Disney World) now helping do the same for Coos County.

Maps are the primary display and information dissemination tools, as developed by Ian McHarg Associates, Philadelphia, Pa. Map overlay technique of putting data base on top of data base until you have this one thick map (more or less) that tells you everything about the land.

Pacific NW Rivers Basin Commission

1 Columbia River (PO Box 908) 285-0467
Vancouver, WN 98660

A two year (\$250,000) mapping project headed by Bill Bullard. They have one of the largest collections of mapped and categorized environmental information "libraries" in the Northwest.

National Ocean Survey

Distribution Div. c-44
Washington, DC 20235

The new world air charts now show almost all the land areas of the planet (a few Siberian and Antarctic sheets still in works). Ask for catalog of aeronautical charts and related publications.

Coast and Geodetic Survey.

Rockville, Md. 20852
Shoreline and River Channel Maps.

Portland Map

City Engineers Office 248-4035
400 SW 6th

Large scale map 4' x 3' of Portland and surrounding area.

Tri-Met Route Map

A pretty and helpful map, including some information on special services. 235-3511

Washington Environmental Atlas

Being compiled by Army Corps of Engineers Seattle Office. 4735 E. Marginal Way S. Seattle, Wn. 98134
Steven Dice. 764-3624

Central Oregon Rockhound Guide

Published by the Forest Service; distributed by Prineville-Crook County Chamber of Commerce
390 N. Fairview, Prineville, Or.

Bureau of Land Management

Oregon State Office 234-3361
729 NE Oregon
Portland, Or.

They have a good size called "Master Units" 1" to 1 mile. Also if you are in South East Oregon where most BLM holdings are, water proof map of Steens Mountain - other recreational unit maps.

ENERGY
CONTINUED FROM PAGE 11

BIOCONVERSION ENERGY PLANT.

Ken Smith, formerly of the laboratory for Maximum Potential Systems, and Evan Brown of the Ecotape Group, Seattle, are now designing a bioconversion energy plant for construction at the Monroe State Prison Honor Farm Dairy. Using a \$90,000 grant from the Washington State Dept. of Ecology, they will use the manure from 250 dairy cows to produce methane gas and fertilizer.

For further information, contact the Ecotape Group, Box 5599, University Station, Seattle, Wn. 98105. 523-2458.

OREGON OFFICE OF ENERGY
CONSERVATION AND ALLOCA-
TION.

255 Church street N. E.
Salem, Or. 97310. Toll free
number 1-800-452-0340.

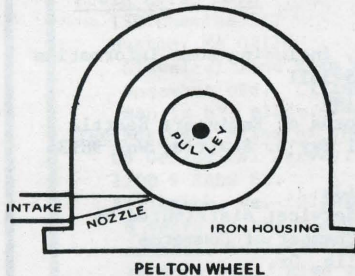
Currently working on the
"undrive" campaign, distributing
bumper stickers, etc.

Conservation Program for State
agencies: development of programs
for energy use auditing, recycling
etc.

Energy Information resource
file being developed; especially
designed for use by state legisla-
tors. Contact: Julie Seltz.

see also Agriculture-Food,
Audio-visual

ENGINEERING



PELTON WHEEL

A pelton wheel is a pressure turbine which runs off a gravity water system. There is a rotor with cups evenly spaced around the rim inside the pelton wheel. Each cup has a ridge in its center and a jet nozzle directs a high pressure stream of water on this ridge to give the wheel its speed and power. Pound for pound a pelton wheel is much more powerful than an electric motor. It takes about a 150 foot head, or fall, for best efficiency, but will operate on less.

FICTION

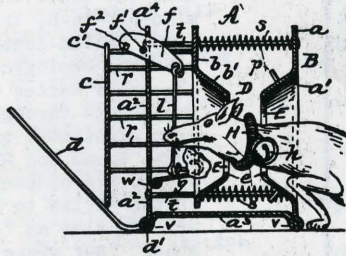
The Great Boom and Panic

Patterson, Robert T.

America's Great Depression and the
Panic of 1819

Rothbard, Murray N.

ABSOLUTELY MAD INVENTIONS, A. E. Brown and H. A. Jeffcott, Jr. Inventions—zany, absurd, hilarious, useless or merely fanciful—all of which have been granted patents by the United States Patent Office. An edible tie pin, a balloon propelled by eagles and vultures, and a locket to hold used chewing gum, are but three of the proposed devices, all illustrated with the inventors' drawings and descriptions. 57 full-page illustrations. Formerly *Beware of Imitations*. 125pp. 22596-8 Paperbd. \$1.50
dover publications



FUTURES

OREGON TOMORROW.

A conference on trend and opinion. Sponsored by Futures Research Institute. Portland State University. PO Box 751. Portland, Or. 97207. April 4-7, 1974. Background paper. Also included ideas for the United States Bicentennial Decade by Robert U. Lamson. National Science Foundation.

The California Tomorrow Plan

by Alfred Heller, Los Altos, Ca.
William Kaufman, Inc. 120 pp.
1972. \$2.50. Developed by
California Tomorrow.

see also Participation

GAMES

NEW GAMES TOURNAMENT. New games Foundation. PO Box 40547. San Francisco, Ca. 94110.

The tournament was staged in the Marian headlands on two consecutive weekends in October, 1973. It brought together games inventors, educators, authors, children, a traveling commune, the military, a citizens band radio group, land

OCTOBER, 1974

acquisition and management personnel, social crusaders, and people out to have fun.

see also Air

GEOLOGY

NATIONAL SPELEOLOGICAL
SOCIETY

Charles Larson
13402 NE Clark Rd.
Vancouver, WN. 98665
695-4143

"Oil Shale" Ore Bin. August, 1974
Entire issue.

see also GUIDES page 15

GOVERNMENT



see also Grants

GRANTS

LEWIS AND CLARK SCHOOL OF LAW has been awarded a substantial seed money grant by the Lewis W. and Maud Hill Foundation in St. Paul, Minn., to establish the Natural Resources Law Institute over a three year period. The Institute will focus on three areas: the research of law as it affects natural resource legislation, community education and curriculum development. For further information contact Jeff Foote, 244-6161, x 545.

"Large Scale Interdisciplinary
Research Management"

National Science Foundation
\$350,000
Donald E. Bevan
Institute for Environmental
Studies
University of Washington

GUIDES TO THE LAND

Oregon Non-Parks R. L. Benson, Route 2, Box 358
Portland, Or. 97231. \$1.00

A description of 12 unique areas in the Portland area, not designated as parks.

Discovering Portland with Children Claudia Laninger and Arlene Haan. June 1974. \$1.50

Parks, museums, ducks, tours, childrens' books, art galleries.

Now Where? Joyce Tuggle and Nancy Martin McCarthy.

PO Box 339, Lake Oswego, Or. 97034. \$2.25

Places in Oregon to go with kids.

Circling the City Junior League of Portland. 227-7083

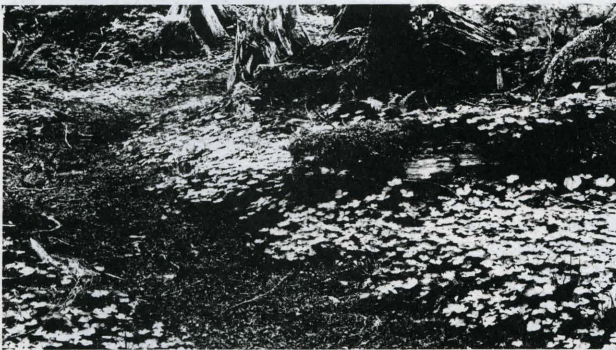
A guide to Portland for handicapped, including ramp, restroom information.

A Guide to the Trails of Badger Creek Roadless Area

Badger Creek Association. 3335 NW Luray Terrace.

Portland, Or. 97210. 227-1879. June 1974. \$1.50

Mt. Hood area.



Trail near top of Tillamook Head

On a Tank of Gas Sam McKinney and Gail Ferguson.

0302 SW Nebraska, Portland, Or. 97201. \$1.75

47 places. 26 pages.

Within 100 miles of Portland.

From Portland to the Pacific Occasional Paper in Geography #2. Geography Dept. Portland State University

Willamette River Ecology Study A publication of the Instruction Dept. Eugene Public Schools. 200 N. Monroe, Eugene, Or. 97402. Lyle Wilhelmi, Science Coordinator. June 8, 1973

Some Little Known Scenic Pleasure Places in the Cascade Range Ira. A. Williams. May, 1916. Reissued by the Dept. of Geology and Mineral Industries.

Impressions of Portland F. DeWolfe. 1972.

A photographic, historical and present, guide to Portland.

Oregon for the Curious Ralph Friedman. Caxton Printers. 1973. \$3.95

Museums, houses, water falls, erratic rocks, lighthouses.

Treasures of the Oregon Country Maynard C. Dawson. Dee Publishing Co. 1020 Terrace Dr. NW, Salem, Or. 97304 \$7.50

Written by a seeker of record giant trees and unnamed places.

Lakes of Oregon Vol. #1. Clatsop, Columbia, Tillamook Counties. US Geological Survey Water Resources Division.

Oregon Parks and Recreation Directory State Highway Division. 1974

Dept. of Geology and Mineral Industries 1069 State Office Bldg., Portland, Or. 97201.

Monthly "Ore Bin", \$2.00/year. (recently most concerned with energy); and occasional geological papers, good guides to those areas studied, especially Central/South Eastern Oregon.

Guide to Trails and Roads of Forest Park Vol. 1. Bill

Keil. Westrails Press, 6306 SW 39th Av, Portland

Or. 97221. 64 pp. \$1.75

Cruising Atlas, Columbia, Snake and Willamette Rivers

Bernie Straub Publishing Co., Seattle, Wa. 98105

Oregon Sales: Max E. Reynolds, 7902 N. Olympia

Portland, Or. 97203, 286-5039. \$6.95

Caves of Washington William R. Halliday. Information Circular #40. Dept. of Ecology, State of Washington Olympia, WN.

Cascadia, Geologic Evolution of the Pacific Northwest.

Bates McKee. McGraw-Hill \$9.95

Supplants the traditional guide: Scenic Geology

of the Pacific Northwest Leonard Ekman. Binford

and Mort. 1970 \$6.50

The Pacific Coast Trail, Vol. 2, Oregon and Washington

Jeff Schaffer and Bev, Fred Hartline. Hooper Printing

Co. 1974. 346 pp. \$5.95

Like the 101 Hiking Trail books

Touchstone Press PO Box 81, Beaverton, Or. 97005

Publishers of many excellent guide books, including:

Hiking the Oregon Skyline. 160 pp. \$4.95

55 Oregon Bicycle Trips \$3.95

Oregon Ski Tours, 65 trails. \$4.95

The Columbia Gorge \$4.25

Signpost Publications, 16812 36th Ave., Lynnwood, WN 98036

Many good publications, including Kayak and Canoe

Trips in Washington 32 pp. \$2.00

The Mountaineers, PO Box 122, Seattle, WN. 98117

Publishers of guide books, especially oriented to

the serious mountain climber, such as The Cascade

Alpine Guide. 354 pp. 100 pages of maps. \$9.95

Photos: 100 Oregon Hiking Trails



Paradise Park

Other Primary Publishers:

Binford and Morts. 2505 SE 11th, Portland, Or. 97242

Oregon Historical Society. 1230 SW Park, Portland, Or. 97205

Pacific Search. 715 Harrison St., Seattle, WN 98109

University of Washington Press, University of Wash-

ington, Seattle, WN 98195

University of Oregon Press, University of Oregon

Eugene, Or. 97403

Souvenir Publishing Co. PO Box 605, Pleasant Hill,

Or. 97401

Western Guide Publishers PO Box 1013, Corvallis, Or.

97330

Shoreys Publishers 815 3rd Ave. Seattle, Wn. 98104

Darvill Outdoor Publications PO Box 636, Mt. Vernon

Washington

Superior Publishing Co. 708 6th Av. N. Seattle, Wn.

98109

HISTORY

Meeting House Preservation Act (52877)

"the meeting houses . . . will not be exposition structures for a brief celebration, they will be centers wherein we shall all undertake to explore our ecological, educational, and historical preservation concerns"

A. W. Smith
Natl. Parks & Conservation Assn.
1701 18th St. NW
Washington, DC 20009

Northwest Folklore

Semi-annual journal. \$2.50/year.
University of Oregon Books.
Eugene, Or. 97403

FORUM ON THE HISTORY OF PORTLAND'S NEIGHBORHOODS AND ETHNIC COMMUNITIES.

Sponsored by the Center for Urban Education and the Oregon Historical Society. Held March 27, 1974, bringing together over 35 people working on different oral history projects (and related studies) in Portland. A list of the oral history projects available from Center For Urban Education. 0245 SW Bancroft. Portland, Or. 97201.

NEIGHBORHOODS IN TRANSITION

Creative Outlet. 201 SE 12th. Portland, Or. 97214. 233-3654.

Documentation through the use of video taped interviews some of the effects of urban renewal in the Burnside neighborhood and tracing those effects to the Buckman community.

The video tapes so far collected have been aired at several community "town hall" meetings in an attempt to encourage residents to discuss the future of their neighborhood.

Coordinator: Jack Cox.

Chinook Centrex

Sometimes inclusions in Rain are based on what's new since the Centrex was computed. If that baffles you include a quarter with your reader enquiry card and receive a free copy. Limited number remaining.

FREEDOM OF INFORMATION CLEARING HOUSE

PO Box 19367
Washington, DC 20036

Old Glory. America the Beautiful Fund. 219 Shoreham Bldg. Washington, DC 20005. \$4.95
The grass roots historical preservation movement. Over 100 restoration projects, people histories; how to why to record your own history. Big book. Lots of Pictures.

ETHNIC HERITAGE PROJECT, Center For Urban Education. 0245 SW Bancroft. Portland, Or. 97201. 224-1144

An Ethnic Heritage Studies (U.S. Office of Education) grant. The development of learning materials of the history of ethnic groups in Portland; and an "adapter's Guide", procedures for instituting similiar programs. Susan Descamp and Kent Layden, staff.

INFORMATION

OREGON ENVIRONMENTAL COUNCIL "Environmental Bibliography" now being compiled. Contact Gay Bower. 222-1963

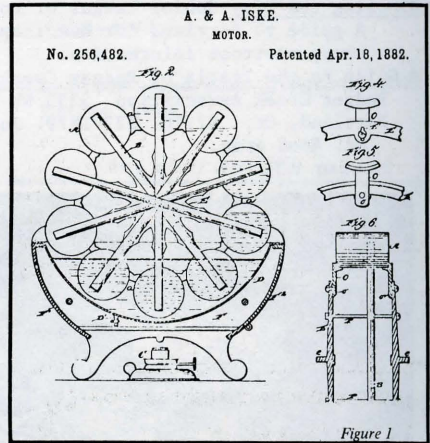
Environmental Books, a selected list of books, periodicals & films at the Multnomah County Library. #1, #2, #3 available at library.

Dover Survival Kit

Dover Publications, Inc. 180 Varick St., NY, NY
A selective description of over 100 of Dover's best; construction, design, food, nature, identification, gardening, fantasy and supernatural.

FIRST INTERNATIONAL ENVIRONMENTAL SYMPOSIUM SERIES, EXPO 74.

Some documentation of the first series (May 19-21) available (including Peter and Lowen Thompson, David Brower). For more information; and to be notified of the on-going documentation (audio, video and print) write to:
Spokane Community Video
West 1919 2nd ave
Spokane, Wn. 99204



CONTACT, a directory of Community Information Resources, Eugene. 1974. Compiled by the University of Oregon, student chapter of Special Libraries Assoc.

A really fine 128 page description of libraries, special collections, resource persons, information and referral projects, etc. Useful outside of Eugene.

School of Librarianship
University of Oregon
Eugene, Or. 97403.

Commodity	Freezing point ° F.	Place to store	Storage conditions		Length of storage period
			Temperature ° F.	Humidity	
Vegetables:					
Dry beans and peas	30.4	Any cool, dry place	32° to 40°	Dry	As long as desired.
Late cabbage	30.4	Pit, trench, or outdoor cellar.	Near 32° as possible	Moderately moist.	Through late fall and winter.
Cauliflower	30.3	Storage cellar	do	do	6 to 8 weeks.
Late celery	31.6	Pit or trench; roots in soil in storage cellar.	do	do	Through late fall and winter.
Endive	31.9	Roots in soil in storage cellar.	do	do	2 to 3 months.
Onions	30.6	Any cool, dry place	do	Dry	Through fall and winter.
Parsnips	30.4	Where they grew, or in storage cellar.	do	Moist	Do.
Peppers	30.7	Unheated basement or room	45° to 50°	Moderately moist.	2 to 3 weeks.
Potatoes	30.9	Pit or in storage cellar	35° to 40°	do	Through fall and winter.
Pumpkins and squashes.	30.5	Home cellar or basement	55°	Moderately dry.	Do.
Root crops (miscellaneous).		Pit or in storage cellar	Near 32° as possible	Moist	Do.
Sweetpotatoes	29.7	Home cellar or basement	55° to 60°	Moderately dry.	Do.
Tomatoes (mature green).	31.0	do	55° to 70°	do	4 to 6 weeks.
Fruits:					
Apples	29.0	Fruit storage cellar	Near 32° as possible	Moderately moist.	Through fall and winter.
Grapefruit	29.8	do	do	do	4 to 6 weeks.
Grapes	28.1	do	do	do	1 to 2 months.
Oranges	30.5	do	do	do	4 to 6 weeks.
Pears	29.2	do	do	do	4 to 6 weeks.

Access Guide to Environmental Materials in the University of Washington Library

Institute for Environmental Studies
University of Washington
List of Indexes, abstracts, and guide to Washington State impact statements. Good key word for environmental information adjuncts.

To Live with the Earth

Oregon Environmental Foundation
2367 SW Water
Portland, Or.
\$1.00
(to be published middle of Oct.)

Information available from National Environmental Education Dissemination Fair held in Green Bay, Wisc. Aug. 27-28. 20 Title III and Environmental Education Projects made presentations and answered questions. (L. W.)

see also Networks

LAND USE

SAUVIE ISLAND-WEST HILLS COMPREHENSIVE PLANNING PROJECT is now being done by the Skidmore, Owings & Merrill Environmental Study Group in conjunction with the Multnomah County Division of Land Use Planning. Last Wednesday, Sept. 11th, West Hills residents sat eight to a table in the Linnton H. S. auditorium talking with their neighbors about what they liked about where they lived, what they wanted preserved, what they saw as problems to further development and what they wanted changed. Base data gathering and visual map display of flood plains, landslide & slope instability, agricultural capability, wildlife habitat, existing land use, current zoning and other factors thought by the Study Group likely to affect land use in the area were published in a "Land Use Newspaper" distributed to area residents. This data is now being revised to include information sent in by people who have lived in the West Hills for many years

Copies of the "Land Usepaper" are available from the Multnomah County Division of Land Use Planning at (503) 248-3043. The next area land use workshop will be in early November. Call the above number for exact time & place.

Planting Seasons for Vegetables			
Group I	Group II	Group III	Group IV
Short Season Cool Weather Crops	Longer Season Cool Weather Crops	Warm Season Crops	Long Season Warm or Hot Weather Crops
Kale	Beets	Snap beans	Eggplant
Leaf lettuce	Broccoli	Pole beans	Peppers
Mustard	Cabbage	Lima beans	Okra
Green peas	Cauliflower	Onions	Tomatoes
Radishes	Carrots	Sweet corn	Pumpkin
Spinach	Endive	Cucumbers	Watermelons
Turnips	Irish potatoes	Squash	Southern peas
	Chinese cabbage		Cantaloupes
	Swiss chard		Sweet potatoes
	Collards		

Landuse Oregon, Newsletter
2637 SW Water Av.
Portland, Or. 97201
Bi-monthly report on land use legislation.

THE NATURE CONSERVANCY

The need for a preserved system of natural areas, appreciated by scientists such as Aldo Leopold and Eugene Odum for years, must be acknowledged more widely by citizens and land-use planners. There will be widespread use of such areas: by scientists to monitor the environment and obtain baseline data; by educators to teach an understanding and respect for the land; by land managers to revitalize unhealthy land; and by us all for recreation and enlightenment.

Three efforts are presently underway to preserve a system of natural areas. The federal agencies are setting aside a system of Research Natural Areas representing the basic natural communities found on federal land. The Oregon legislature has established a state committee on natural area preserves to develop such a system for state lands. For private lands, The Nature Conservancy has been taking the lead through land purchase and the Oregon Natural Areas Inventory.

The Oregon Natural Areas Inventory is an effort to obtain essential data for the creation of a comprehensive natural area system in Oregon. It will identify and evaluate important ecological communities; valuable habitats for plants and animals such as endangered species; significant natural features such as fossil beds or the biggest trees; and areas particularly valuable for education or research. The Inventory will be a resource for land-use planners, agency employees, scientists and conservationists. Without it land preservation will be hit and miss, and what we miss will be missed forever. As Aldo Leopold said, "the first rule of intelligent tinkering is to save all the pieces."

The Nature Conservancy is a 24 year old non-profit, tax-exempt corporation that obtains its funding through public subscription. The Conservancy's sole goal is the preservation of natural areas. This is accomplished in four main ways: direct purchase; acceptance of gifts of land; pre-purchase of ecologically significant land for conservation-minded government agencies who later buy them back; and the conducting of natural areas inventories.

In Oregon, the Conservancy is currently purchasing 175 acres along the Sandy River Gorge, just 25 minutes from downtown Portland. Securing this land will assure the perpetual protection of the Sandy River Gorge; the remainder of the area is in the ownership of The Nature Conservancy, the Bureau of Land Management, Multnomah County and the Campfire Girls, all of whom are dedicated to maintaining the Gorge in its natural and pristine condition. The Gorge, and much of the Sandy River itself, has remained surprisingly untouched. It provides habitat for osprey, eagles, deer, elk, bear, mink and river otter. Salmon steelhead and sea-run cutthroat use the river, and the forest land on either side is moist and rich with great diversity of wildflowers and mushrooms. In order to purchase the key 175 acres, there is a fundraising goal of \$23,000 by November 23 and a three year goal of \$125,000 (Any contributions can be sent to the Conservancy's Northwest Office, 1234 NW 25, Portland, Or. 97210.)

Wayne Rifer
Coordinator
Oregon Natural Areas Inventory

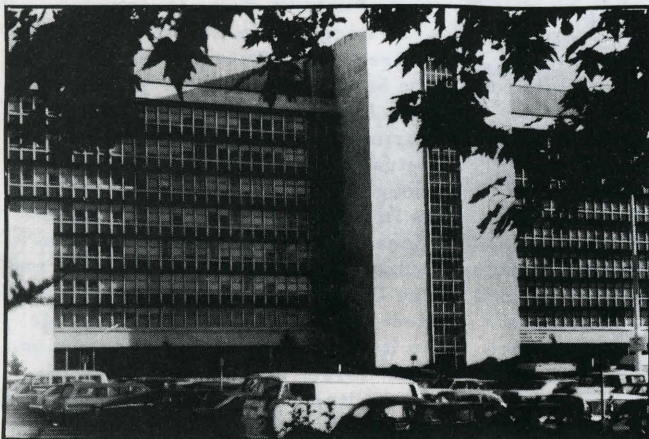
Oregon Plans The Land, a guide to the 1973-4 Land Use Law" by Carolyn Gassaway. 50 page booklet. Order from: Oregon Environmental Council. 2637 SW Water. Portland, Or. 97201. 222-1963.

A GUIDE TO PORTLAND

- 1) Essentially a library is a collection of recorded information. But so is a bookstore, an attic filled with old letters, or a pile of last week's newspapers on a trash heap.
- 2) The "winter count" kept by the Dakota Indians from 1800 to 1870 was simply a series of 71 pictures inscribed on a buffalo robe. Each picture portrayed the most important event of a winter and it was enough of a reminder to the tribal chronicler to allow him to describe a year's history of the tribe.
- 3) The Associated Credit Bureau has data on over 100 million people.
- 4) The city is chock-full of "junior" librarians, operating covertly under such titles as Federal Information Center, Contact Center, Easter Seals, . . .

We hope in this 1,2,4, or 7 part series to come in contact with different traditional and untraditional libraries, librarians, proprietors and information coordinators.

There are approximately 182 public, 43 college and university, and 60 "special" libraries in the state of Oregon; in addition there are about 1200 public schools all of which have some form of library or another.



Bonneville Power Administration, Library and Technical Information Services
1002 NE Holladay Street

Portland, Or. 97208 234-3361 x 4445

Electrical Engineering, law, 40,000 volumes. Public may use publications in library; inter-library loan service provided for individuals via public and academic libraries. Xeroxing at 5¢ per page. Johannes S. Schimmelbusch, head librarian.

Emanuel Hospital Medical Library

2801 N Gantenbein Av.

Portland, Or. 97227 280-4696

2,000 medical and nursing books with some sociology and psychology. Approximately 120 medical and nursing journal subscriptions. Use by hospital employees. Others in community may not take books out but may use on site. Inter-library loan and xeroxing available.

Evans Products Company, Corporate Library

PO Box 3295

Portland, Or. 97208 222-5592 x 358

Business library, emphasis on building materials. Large collection of annual reports, business periodicals. Permission must be gotten. Tammy Beals, librarian.

Good Samaritan Hospital and Medical Center

1015 NW 22nd Av.

Portland, Or. 97210 229-7336

Medical books and journals. Use by staff only. Mrs. Melvina Stell, librarian.

Hyster Company, Technical Information Services

2902 NE Clackamas

Portland, Or. 97208 280-7402

5,591 volumes on engineering, engineering design, metals, management, personnel, industrial engineering, welding. Also Hyster authored material, Hyster historical records and annual reports. To this date no restrictions in onsite use. Special loans. Some microfiche and viewers use in library. James Bobzien, supervisor.

Multnomah County Library

801 SW 10th Ave.

Portland, Or. 97205 223-7201

500,000 volumes. Special collections of US Government, Oregon state, and Oregoniana collection. In art room subject index to loose leaf picture materials, records. Circulating films, art reproductions, slides. Large collection of most local newspapers, newsletters and magazines. Foundation center reference center, with last year's tax records on all Oregon foundations and many national. Phone service; recently implemented a phone reference center, for answering reference questions within reason.

University of Oregon Dental School Library

611 SW Campus Drive

Portland, Or. 97201 225-8822

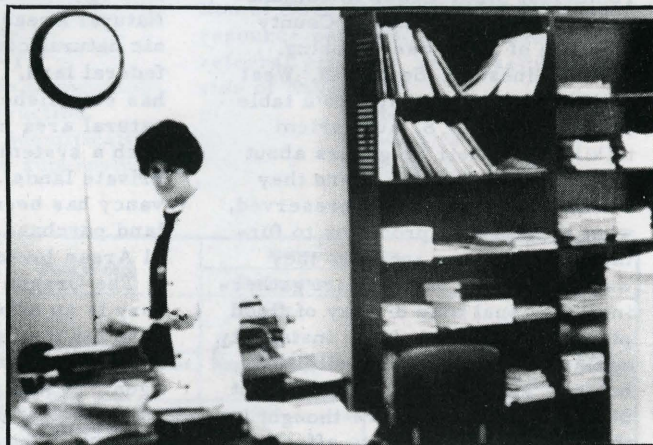
16,000 volumes in dentistry. Available to dental students and dental school personnel and to practicing dentists and members of their staff throughout Oregon.

Oregon Dept. of Geology and Mineral Industries

1069 State Office Building

Portland, Or. 97201 229-5580

Geology of the United States, with emphasis on Oregon. US Geological survey publications, US Bureau of Mines publications, theses and dissertations on geology in Oregon. Publications may be used in office. Some may be checked out by professionals for limited time. Copying 10 cents a page.



Photos: Anita Helle

Oregon Historical Society

1230 SW Park Avenue

Portland, Or. 97205 222-1741

50,000 bound volumes, including periodicals, Oregon and Pacific NW history. Special collection of manuscripts (over 2 million loose sheets); accessible by "Guide to Oregon Historical Society Manuscript Holdings". Over 500,000 photographs. Microfilm collection of 750 newspapers (access: A Catalog of Microfilm collections). Open to all of college age and above, and to grade or high school students who present a note from teacher stating the subject of research and declaring they have exhausted the resources of the school and public libraries.

LIBRARIES

Pacific NW Forest and Range Experiment Station Library,
US Forest Service
809 NE 6th

Portland, Or. 97232 234-3361
23,000 volumes, forest disease, economics, engineering, products marketing, recreation, water shed management.

Pacific Power and Light Company Library
Public Service Bldg.

Portland, Or. 97204 226-7411 x 658
Engineering, electrical, geology, mining, environment. Loans by company employees and inter-library loan. Mr. W. L. Hutchinson, Librarian.

Portland State University
PO Box 1151

Portland, Or. 97207 229-4424
Major academic library in Portland. 460,000 volumes. Use by Portland State students/faculty; some guest

cards where need exists and Oregon State System of Higher Education and metropolitan area college students.

Providence Hospital Medical Library
700 NE 47th

Portland, Or. 97213 234-8211 x 314
Nursing. Use by employees, patients, and other hospital libraries. Mrs. Margaret Sidney, librarian.

United States Nat'l Bank of Oregon
Resource Library
PO Box 4412

Portland, Or. 97208
1,500 volumes. Banking and business. Speeches, theses, banking resources. Bank employees use. Correspondence with branches--books sent through mail. Chris Patterson.

State of Oregon, special libraries

Columbia Park Hospital and Training Center, 400 E. Scenic Dr., The Dalles 97058	296-6171	Oregon State Water Resources Board, 1158 Chemeketa St. N.E., Salem 97310	378-3671
Eastern Oregon Hospital and Training Center, P.O. Box A, Pendleton 97801	276-1711	Oregonian Library 1320 S.W. Broadway, Portland 97201	226-2121
Eugene Register Guard News Library, P.O. Box 1232, Eugene 97405	345-1551	Pacific Power and Light Company, 920 S.W. 6th Ave., Portland 97204	226-7411
Evans Products Company, Technology and Engineering Group, Box E, 1115 S.E. Crystal Lake Dr., Corvallis 97330	753-1211	Portland Art Association, Museum Art School, Southwest Park & Madison, Portland 97205	226-2811
Fish Commission of Oregon Library, 17330 S.E. Evelyn St., Clackamas 97015	656-1457	Portland General Electric Company, 621 S.W. Alder St., Portland 97205	228-7181
Kaiser Foundation Hospitals, Portland: Medical Record Department 5055 N. Greeley, Portland 97217	285-9321	Rader Pneumatics, Inc., Information Center, P.O. Box 20128, 6005 N.E. 82nd, Portland 97220	255-5330
Medical Care Research Library, 4707 S.E. Hawthorne Blvd., Portland 97215	233-5636	Standard Insurance Company, P.O. Box 711, 1100 S.W. 6th Ave., Portland 97207	224-8151
Multnomah Law Library, County Court House, Portland 97204	248-3394	Supreme Court Library of Oregon, Supreme Court Bldg., Salem 97310	378-6030
Northwest Regional Educational Laboratory Library, 400 Lindsay Bldg., 710 S.W. 2nd Ave., Portland 97204	224-3650	Tektronix, Inc., P.O. Box 500, Beaverton 97005	644-0161
Oregon Board of Education, Retrieval-Dissemination Center, 942 Lancaster Dr. N.E., Salem 97310	378-3566	Teledyne Wah Chang Albany, P.O. Box 460, Albany 97321	926-4211
Oregon Graduate Center, 19600 N.W. Walker Rd., Beaverton 97005	645-1121	U.S. Air Force, 827 ADG/SSL, Library, Kingsley Field 97601	882-4411
Oregon Journal Library, 1320 S.W. Broadway, Portland 97201	222-5511	U.S. Army Engineer District Library, P.O. Box 2946, Portland 97208	777-4441
Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton 97005	645-1141	U.S. Bureau of Mines, Technical Library, P.O. Box 70, Albany 97321	926-5811
Oregon State Correctional Institution, 3405 Deer Park Dr. S.E., Salem 97310	378-4290	U.S. Department of Commerce, Suite 501, Pittock Block, 921 S.W. Washington St., Portland 97205	221-3001
Oregon State Department of Education, School for the Deaf, 999 Locust St. N.E., Salem 97310	378-6248	U.S. Department of Interior, Bonneville Power Administration, P.O. Box 3621, Portland 97208	234-3361
Oregon State Department of Human Resources, Children's Services, 516 Public Service Bldg., Salem 97310	378-3620	U.S. Environmental Protection Agency, National Environmental Research Center, 200 S.W. 35th St., Corvallis 97330	752-4211
Oregon State Department of Human Resources, Health Division, Public Health Library, 773 State Office Bldg., 1400 S.W. Fifth Ave., Portland 97201	229-5878	U.S. Tongue Point Job Corps, Instructional Media Center, Astoria 97103	325-2131
Oregon State Department of Revenue, Research- Information Section, 202 State Office Bldg., Salem 97310	378-3727	U.S. National Bank of Oregon, Resource Library, 321 S.W. Sixth Ave., P.O. Box 4412, Portland 97208	225-6111
Oregon State Department of Transportation, Highway Division, Highway Bldg., Salem 97310	378-6268	U.S. Veterans' Administration Domiciliary, White City 97501	826-2111
Oregon State Hospital, 2600 Center St. N.E., Salem 97310	378-2348	U.S. Veterans' Administration Hospital, Sam Jackson Park, Portland 97207	222-9221
Medical Library	378-2266	U.S. Veterans' Administration Hospital, Roseburg 97470	672-4411
Patients' Library	378-2370	University of Oregon, Bureau of Governmental Research and Service, P.O. Box 3177, 130 Hendricks Hall, Eugene 97403	686-3048
Nurses' Library	378-2363	University of Oregon, Career Planning and Place- ment Service, Susan Campbell Hall, Eugene 97403	686-3235
Oregon State Penitentiary, 2605 State Street, Salem 97310	378-2454	University of Oregon, Center for Gerontology, 1597 Agate St., Eugene 97403	686-4207
Oregon State University, Forest Research Laboratory, School of Forestry, Corvallis 97331	753-9166		

LAND USE
CONTINUED FROM PAGE 17

AMERICAN INSTITUTE OF PLANNERS, Chapter Newsletter
c/o Mid Willamette Valley Council of Governments
Room 305 Civic Center
Salem, Or. 97301
August-Sept. issue. Article by Tom McCall on Energy and Planning.

see also Audio visual,
GUIDES (page 15), Water

MEDIA

CABLE TV. On Sept. 12, the Portland City Council voted 5 to 0 passing an ordinance which requests permission to seek proposals for a city cable communications system and to negotiate with Multnomah County for a Metropolitan Communications Authority to administer the system. Last spring the Citizens Cable Study Committee drew up their design of the system which features home subscriber entertainment; cable providing public information and public access to television as well as a closed system cable to link such institutions as hospitals, schools and government agencies. Bid requests will go out in October and will be analyzed three months later. In six months the city council will vote on whether or not to accept a particular bid proposal. Interested parties should contact Kennon McKee at 248-4128.

OREGON CITIZENS FOR RESPONSIVE MEDIA

A newly formed group concerned with the public service performance of local television and radio broadcasters in such areas as public affairs, public service announcements, editorials and news reporting. This fall, in anticipation of Federal Communications Commission review of station renewal applications, the group is performing a citizen evaluation of the public service performance of local television broadcasters, and will publicize the results. Interested persons should call in Portland, 228-0666.

Portland Youth Communications Inc.
4760 N Lombard. 283-2591
Portland, Or.

To publish a tabloid size newspaper in late September. Ann Shimmin, editor.

Beginning amateur radio course. Grade 7 and up. Preparation for Novice License Exam. Call OMSI for details. 224-9500

COMMUNITY FOCUS, an experimental project in community video telecommunication, funded by program IMPACT through Title I higher education monies, has been producing half inch video tape programs on the Corbett-Terwilliger Lair Hill area, and broadcasting these programs twice monthly over King Video cable. Upcoming is a series of twelve KPTV shows in cooperation with the Neighborhood Law Institute at Lewis and Clark School of Law, assisted in part by the Environmental Education Center. The KPTV programs on neighborhoods will be aired once a month on Sundays at 9:30pm. Watch your program listings or contact 228-3532.

see also Participation, Audio-visual

NETWORKS

The Avocado Exchange 203 HUB

University of Washington
543-4375

The Avocado Exchange is an opportunity for people to express their needs, resources, desires, interests or shells through an open telephone exchange. You can register with the exchange by calling 543-4375 24 hours a day. The information registered in the exchange is printed once a quarter in the University of Washington Daily.

Roster of Environmental Resource Persons

prepared by the Institute for Environmental Studies. University of Washington, Seattle, WN 98195. Oct. 1973, 70 pp.

The roster was compiled to provide the regional community with information regarding sources of knowledge in a broad spectrum of environmental fields and make the academic expertise of the University (of Washington) more accessible to the general public.

SEA-KING

Clearing house for environmental information funded by King County Neighborhood Youth Corps.
206-344-7690
302 Smith Tower Bldg.
Seattle, WN, 98104

The Couzens Machine, a Computerized Learning Exchange

Center for Research on Learning and Teaching
University of Michigan
Ann Arbor, Michigan
Report compiled by Ken Davis & Richard Libengood.

Developed for the residents of Couzens Hall, a dormitory of the University of Michigan. Organized as a collective within the framework of a course and supported by an instructional development grant, the Couzens Machine provided over 400 residents with information on (1) other residents who shared the recipients' interests, (2) upcoming events in the Ann Arbor area and (3) misc. items such as cafeteria hours, typing, haircutting, laundry service.

Networks for Research and Education. Ed. by Greenberg et al.

MIT Press, May 1974, \$12.50
Covers computers and other inter-university information exchange techniques. (Synergy Access)

New World Communications

PO Box E
MIT Branch PO
Cambridge, MA. 02139
A centralized broadsheet distribution. You pay \$1.00 plus 4¢ per word or special price for flyer enclosure. \$\$ to be on subscription list.

OPEN, NW Information Network 1615 NE 63rd Seattle, Wn. 98115 524-9312

A listing of 3500 groups and individuals interested in sources and uses of energy, alternative futures, media, agriculture and technology. Information packets available that include lists of individuals and groups working in areas of shelter, farming, video, alternative sources of energy, media. For requests send at least \$1.00 donation and self-stamped envelope.

Learning Exchanges, Ken Davis

50¢ from Futures Conditional Box 1531
Wickenburg, AZ 85358
A directory to 42 learning exchanges in the United States.

see also Agriculture-Food,
Media, Social Services

OUTDOOR ED

Hancock happening. 3 day outing at OMSI's Nature Science Camp in John Day area. Call 224-9500 for details.

PARTICIPATION

SOME INTERACTIVE MEDIA AND CITIZEN PARTICIPATION PROJECTS

1. ACCESS(Alternative Comprehensive Community Environmental Study System), Santa Barbara Region; national office: 1730 K St. NW Washington, DC 20006

Developing a computer-simulated model of Santa Barbara Region so citizens and decision-makers can feed in their theories and watch the results.

2. SYNCON, 2325 Porter St. NW Washington, DC 20008
Sponsors conferences around the country, broadcast live over educational TV with viewer call-in.

3. Goals for Georgia, 506 Fulton Federal Bldg. Atlanta, GA 30303
Launched in 1971 at the request of Gov. Jimmy Carter, eight goal areas were designated: Education, Government, Protection of Persons and Property, Transportation, Social Development, Economic Development, Natural Environment, Physical and Mental Health. Each became the subject of a discussion and call-in telecast and later a statewide conference.

4. Hawaii Commission on the Year 2000, Box 3110, Honolulu, HI 96802
Promotes citizen participation through task forces, field studies, advisory groups and other means, and has enhanced communications through college and secondary courses, educational television and other media. Substantive issues include population stabilization, alternative economic futures, educational futuristics.

5. Council on Population and Environment, 100 East Ohio St. Chicago, IL 60611
Aired television program on transportation in late 1973, received 2,000 telephone responses and 20,000 newspaper ballot returns.

6. Iowa 2000, 523 East 12th St. Des Moines, IA 50319
Held local and regional meetings to raise issues and elect delegates to Governor's Conference on the Future of Iowa. Televised an Iowa Quiz with 23 questions, narrated by Harry Reasoner, on all Iowa television stations Jan. 13, 1974. Four "umbrella" topics: Natural Resources, Energy, Economic Development, Life Enhancement.

7. Massachusetts Tomorrow, 145 Hanover St. Boston, MA 02108
Working in eight task force areas: Economics, Energy, Land Use, Water Resources, Housing, Education, Transportation, Health.

8. New Hampshire Tomorrow(defunct).
Before expiring, helped form 58 "Action Teams" in the areas of Economic Growth and Environmental Action, Pollution Abatement, Land Acquisition and Access, Scenery Preservation and Environmental Education. For a copy of "NHT: A Report", write: Society for the Protection of New Hampshire Forests, 5 S. State St. Concord, NH 03301

9. Feedback, Box 297, Troy, NY 12180
Sponsored three TV programs with viewer call-in and newspaper balloting in Capitol District of New York State.

10. Regional Plan Association, 235 E. 45th St., New York, NY 10017
Broadcast a series of television documentaries in the areas of Housing, Transportation, Environment, Poverty and Cities/Suburbs. Viewers responded through mail ballots.

11. Century 3 Project, The Institute, Box 174, Dickerson, MD 20735
Has selected 13 small communities around the country (centered at Media, Penn., and including Bend, Ore.) for a pilot project using communications and data processing techniques to set community goals and "generate a genuine consensus around a preferred future." Plans to set up a telecommunications network linking all 13 communities by 1976.

12. Earthrise, Box 120, Annex Sta., Providence, RI 02901
Acts as a clearinghouse for information on future-oriented groups. Setting up five interrelated acti-

vities: The Rhode Is. Model, the Rhode Is. Game, the Rhode Is. Poll, the Rhode Is. State Indicators System, and Rhode Is. Design Systems.

13. Goals for Dallas, 825 One Main Place, Dallas, TX 78520
Initiated in 1966, the group selected 12 areas: The Government of the City, the Design of the City, Health, Welfare, Transportation and Communications, Public Safety, Elementary and Secondary Education, Higher Education, Continuing Education, Cultural Activities, Recreation and Entertainment, and the Economy of Dallas. Through neighborhood meetings, which involved 100,000 participants, identified 106 specific goals, with definite steps to be undertaken by specific deadlines. States "approximately 27% (of the goals) can be considered achieved."

14. Citizen's Alternatives for Washington, Seattle (800)552-7108 toll-free
Supported by the state of Washington, estimates that a quarter million people will become involved this year. Policy options will be developed and presented to the public for consideration using radio, television and print media, in conjunction with telephone and newspaper polls.

COASTWATCH OREGON

PO Box 488,
Portland, Or. 97207 222-1963
Project of the Oregon Shores Conservation Coalition. A volunteer network, organized to monitor areas of environmental concern on the coast; and an educational program to research, compile and distribute materials on scientific, economic and planning issues relevant to coastal zone management. Contact Susan Brody.

Futures Conditional

Box 1531
Wickenburg, AZ 85358
Robert Theobald has directly and indirectly inspired several interactive media, "national values" testing projects.

ALTERNATIVES FOR WASHINGTON

312 First North. Seattle, Wn. 98109.

For a current report of this statewide goals for the futures of Washington program, ask for newsletter, "Alternatives".

CONTINUED ON PAGE 22

PARTICIPATION
CONTINUED FROM PAGE 21

Bend in the River, Final Report on Conference

The BTR Reality, #4. 100 pages Available to delegates and in limited numbers. Reports from each group; the final ballot results of the 5000 voters. Lots of addresses (1600). A BTR fashion report. 100s of little tiny photo portraits, report on comments enclosed in the ballots (8 pages!) A feeling of opinions from all over the state, and from truckers, film makers, cooks, farmers, lawyers loggers, etc.

Reports indicate the delegates still meet, . . . town meetings are more popular in the state. . . what's happening in the country looked at what's happening in the city, . . . Some people have better state maps in their heads and what's happened for the last 3-4 years is a little clearer, and so is where to go - and there's 1600 people looking at each other through a directory in the BTR Reality.

PO BOX 10521

Eugene, Or. 97401

For activities of Portland Delegates, call 229-4692

Feedback: An Involvement Primer

Harry Stevens

20 Lakewood Pl.

Troy, NY 12180

National Science Foundation report. A how to do it manual based on experience with the "Involvement with Education" project in New York, and other media and citizen feedback programs.

An Involvement Primer concludes by making projections for a global involvement network containing community nodes to facilitate feedback balloting on a regular basis as well as many other involvement techniques and processes.

A report on "People and the Land" Public Workshops, July, 1974 Oregon Dept. of Land Conservation and Development
1175 Court St. SE Salem, Or.
Statistical analysis of feedback from over 3,000 people who have participated in LCDC workshops as an attempt to define the goals and guidelines for land conservation and development in Oregon.

For remaining workshops see CALENDER

CITY VOLUNTEER SERVICES
229-6563

see also History

RECREATION

Yellowstone Park. 30 sewer systems. 10 electrical systems. 750 miles of roads. 3,000 campsites

RECYCLING

Materials, an Environmental Resource Guide for Spokane

Dave Snyder, Elinor Nuxoll, and Mark Musick. Symposium Information Center. Expo '74. P.O. Box 1974. Spokane, Wn. 99210

A guide to the flow of materials in Spokane; recycling, used clothing, paper, books, sources of information.

Dictionary of Discards: How to make useful things of scrap. Frank M. Rich. 1972. Avonell Books. 419 Park Avenue S. New York, NY 10016.

Paper Clips. Some detectives in Munich recently traced down a shipment of 100,000 clips, in order to find out where they go; they found 25% had been used for attaching papers
19,413 were used as chips by card players
15,842 were topped with tissue and used as typewriter cleaners
14,163 were nervously twisted into Dali-like shapes during telephone conversations
7,212 were used to keep nylons up
3,196 were used to clean smoking pipes
5,434 served as toothpicks
5,309 as manicure tools
2,431 as screw tighteners
7,000 missing

Recycling Handbook

Recycling Information Office
1234 SW Morrison
Portland, Or. 97205
229-5555

What to do with glass, steel cans aluminum, newspaper, scrap paper, plastic, crankcase oil,...

The National Buyer's Guide to Recycled Paper

Environmental Educators Inc.
1621 Connecticut Av. NW
Washington, D. C. 20009

A Guide to Running a Recycling Project.

Recycling Information Office
Dept. of Environmental Quality
State of Oregon
1234 SW Morrison
Portland, Or. 97205
229-5555

Preparing materials, money and markets, publicity, education, depot equipment, legal requirements. Free.

The Ore Plan: A Fantastic New Approach to Recycle Household Solid Wastes.

Richard C. Duncan
Systems Science

Portland State University

A labor intensive and decentralized rather than mechanized and centralized approach to recycling. Hand carts, borrowed garages, the neighborhood recycling center.

see also Agriculture-Food, Whole Systems

SHELTER

There are old barn roofs through which you can see the stars, yet which won't leak in a hard rain storm.

see also Architecture

SOCIAL SERVICES

SOME CENTRAL PORTLAND AREA INFORMATION CENTERS

WASHINGTON COUNTY COMMUNITY ACTION ORGANIZATION
330 NE Lincoln

Portland, Or. 97123 648-6646

a) ACCESS. resource file on youth. 80 listings.

b) Offenders Alternatives, 80 listings.

c) Developmentally disabled information file

d) Presently involved in a total search for information resources for Washington County.

TRI COUNTY COMMUNITY COUNCIL.

718 W. Burnside.

Portland, Or. 97209. 228-9131.

a) V File. 1,000 listings by service, subject. Cross-referenced.

b) General files. Annual reports, studies, clippings, etc.

c) Developing plans for computerized information system.

EASTER SEAL AID PROGRAM
 4343 SW Corbett
 Portland, Or. 97201 228-5108
 Resource file listing 800 references, 500 subjects. All social service areas. Part of National Information and Referral program.

CONTACT CENTER
 1532 SW Morrison
 Portland, Or. 97205 226-4746
 Resource file. Preston took The Chinook Centrex, Metro. Youth Commission Directory, etc. updated and cataloged. Emphasis on youth.

FEDERAL INFORMATION CENTER
 Portland. 221-2222
 Coral Buchler, manager. Probably has a tighter grip on the Federal government information flow than anyone in the area.

CLACKAMAS COUNTY DEVELOPMENT OPPORTUNITY--EOA
 607 Main st. 655-2518
 Oregon City, Or. 97045
 Presently coordinating an effort to centralize information and referral resources in Clackamas County.

MULTNOMAH COUNTY PUBLIC LIBRARY
 Phone Reference Center 223-7201.
 Questions answerable through directories, phone books, etc. easily answered by staff of this new centralized information service.

SPACE

SATURDAY MARKET. NW 2nd & Davis, Portland, Or. Every Saturday until December. Crafts, produce, spontaneous entertainment, food, plants.

Downtown -- Something's afoot. Near the Pioneer Post Office and Meier & Frank blocks. The fiddler has a small drum, there's new yellers for Jesus, the old regulars: Hare Krishna, and a 4 piece ragtime music group.

Tu Do. Vietnamese cuisine
 1227 SE Powell. 235-5977

New Sportsman Inn
 15 NW 6th
 Portland, Or.
 Poetry readings, other show & tell events. In August a movie about poverty in Washington County by Clyde Keller.

Euphoria
 315 SE 3rd
 Portland, Or.
 The Oregon Folklore Society. A bulletin board. Community tavern.

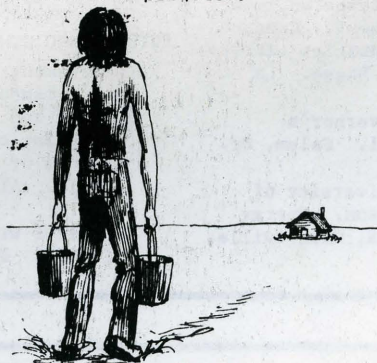
SNUFFYS ARCADE. 922 NW 21st. Portland. Coffehouse or arcade, artifact gallery and junk-ture; toys and games to play.

TRANSPORTATION

SMOKING CARS. Call Dept. of Environmental Quality, state of Oregon, 229-6235 if you see autos with bad exhaust. Nothing legal, they just inform the person.

WATER

THE COUSTEAU SOCIETY
 Box 1716
 Danbury, Connecticut 06816
 Jaques Yves Cousteau, now famous for his ocean TV series, is asking \$15.00 membership for continuing expansion of similar educational projects.



Stop the Five Gallon Flush
 A survey of alternate waste disposal systems. \$1.75
 Minimum Cost Housing Studies School of Architecture
 McGill University PO Box 6070
 Montreal, 101 Quebec, Canada
 Classification and description of over 50 commercially available disposal systems.

Coastal Zone Management Problems
 Jan. 1974
Land and Water Use in Oregon
 July 1974
 Available from:
 Water Resources Research Inst.
 Air Resources Center
 Oregon State University
 Corvallis, Or. 97331
 (503)754-1022
 Ask for Publications List too.
 see also Participation, Agriculture

WHOLE SYSTEMS

Metabolics of Metropolitan area", graduate status course taught by Richard Duncun and Frank Terraglio. Autumn, Fridays 1-3:30 pm. Portland State University. The inflow, storage, processing, utilization and outflow of air, water, information, people, raw materials, finished products, etc. 229-4960.

CULTURAL PARADIGMS PROJECT
 Advanced Concepts Center
 The Dept. of the Environment
 Ottawa KIA OH3, Canada
 (613) 997-3399

"To obtain, organize and criticize the written work of those who assert that a fundamental cultural transformation is occurring and/or needs to occur in western industrialized nations."

The Delphi Method: Techniques and Applications

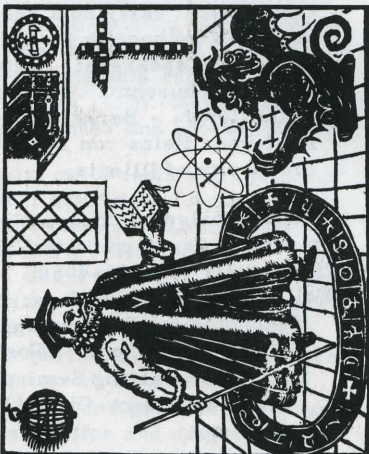
The first book devoted entirely to the Delphi method (anonymous, iterative questionnaires and computerized conferencing) has been completed by Professor H. Linstone (PSU) and M. Turoff (Newark College of Engineering) and will be published by Addison-Wesley Publishing Co. in early 1975 (paperback and hard cover). This forecasting and communication technique is enjoying growing popularity in the US, Europe, and Japan on the part of government, business, and educational planners.

S&H Foundation Lecture Series
 The Systems Science Program at PSU has been awarded a grant from the S&H Foundation to undertake a series of lectures on "Managing Complexity" early next year. The talks will be open to the public. Among the speakers: Professor C. West Churchman, University of California - Berkeley, and Professor Heinz von Foerster, University of Illinois.

Planning oriented courses in Systems Science at Portland State University (for details call 229-4960)
 Fall 1974 - Beginning Sept. 30
 Technological Forecasting I
 Mon 6:40-9:20pm Goslin
 Social Forecasting Seminar
 Thurs 1-3:30pm Gibbs/Linstone
 Modeling I
 Tues, Thurs 4-5:30pm Duncan
 Design Systems
 Tues. 3-5:30pm Maruyama
 see also Agriculture, Recycling

CALENDAR

- Oct. 2-----Mazamas Wednesday evening program on Mt. McKinley. 909 NW 19th, Portland, 8 PM
 - Oct. 3-----"Population and the American Predicament" Lecture by Barbara West, California Institute of Technology. Eliot Hall. Reed College, Portland, 10:30AM.
 - Oct. 3-----LCDC Workshop. Yaquina View Elementary School. Yaquina, Or. 7:30 PM
 - Oct. 3-----LCDC Workshop. Central Point Scenic Jr. High School Cafeteria. Central Point, Or. 7:30 PM
 - Oct. 4-5----Population Year Conference. Friday, world in general, Saturday, Oregon. \$16, 3 meals Claudia Webster, 229-5777 for details. Portland.
 - Oct. 5-----10-4 PM. Hands on Video Workshop. Creative Outlet. 201 SE 12th. Portland, Call to confirm 233-3654
 - Oct. 7-----LCDC Workshop. Oregon City High School, Oregon City, Or. 7:30 PM
 - Oct. 7-----LCDC Workshop. Hillsboro High School, Hillsboro, Or. 7:30 PM
 - Oct. 7-9----Geothermal Conference on Resources for Industrial and Commercial-Residential Uses. PO Box 1901. Klamath Falls, Or. 97601
 - Oct. 10----"Mass Transit and Portland's Future". Steve McCarthy, Eliot Hall. Reed College. Portland, 10:30 AM. Free.
 - Oct. 10-12-Limits to Non-Growth. Conference on impact of fundamental change in economy. Contact Dennis Pirages. Rm 512, Humanities Library, University of California-San Diego. La Jolla, Ca. 92037
 - Oct. 11----LCDC Commission meeting. Governor's Conference Rm. State Capitol. Salem, Or. 1:30 PM
 - Oct. 14-17-Energy Systems Workshop. University of Florida. contact Tom Robertson. Energy Center, University of Florida, Gainesville, Fla. 32611
 - Oct. 16-17-Flexibility in Development: Creating Quality Urban Environments. Center for Urban Education workshop. 9245 SW Bancroft, Portland. 224-1144. \$5.00. Mon credit. 6:45-9:30 PM
 - Oct. 17----"Europe: Changes in Cast and Course". Martha Darling, Battelle-Seattle Research Center. Eliot Hall, Reed College. 10:30 AM. Free
 - Oct. 18----Environmental Education State Advisory Committee meeting open to anyone interested in Oregon environmental education. Mary Lewis, State Dept. of Education, 942 Lancaster Dr., Salem, Or. 97310 or Environmental Education Center (229-4682) for time and place.
 - Oct. 19----"Social Graphics" Center for Urban Education Workshop. 9 AM - 4 PM. Allan Oliver, George Ivan Smith. \$15. Registration: Oct. 15th, call 224-1144.
 - Oct. 21----Metro UP DATE. 7:30-9:30 PM. 5 consecutive Mondays. Center for Urban Education, Portland. Ron Buel. Government, race relations, citizen participation, processes in Portland. \$8.00 registration: Oct. 1. 224-1144
 - Oct. 24----"The Environment Chooses: Prescience or Regrets" Michael McLoskey, director, Sierra Club. Eliot Hall. Reed College. 10:30 AM Free
- FUTURE EXPO SYMPOSIA**
- Environment and Law-----Oct. 17-19
 - Environmental Education-----Oct. 25-27
 - 76 Week and Agenda for Tomorrow
 - Focusing on our responsibility for the future of our community, region, and world. Also Bicentennial opportunity.
 - Oct. 28-Nov.4
 - Call or write Environmental Symposium Center, Expo 74, Spokane, Wa. 99210



Address Correction Requested

ENVIRONMENTAL EDUCATION CENTER
 Portland State University
 PO Box 751
 Portland, Or. 97207

NON-PROFIT ORGANIZATION
 U.S. POSTAGE
PAID
 PORTLAND, ORE.
 PERMIT NO. 770

