RAIN: Monthly Newsletter of ECO NET

ECO-NET

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This Book is brought to you for free and open access. It has been accepted for inclusion in RAIN: Journal of Appropriate Technologies by an authorized administrator of PDXScholar. Please contact us if we can make this document more accessible: pdxscholar@pdx.edu.
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.

Positions and Situations is a place for you to 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.)

The Organic Directory
Prepared by Rodale Press
Emmaus, Pa. 18049
$2.95

A 150-page directory to hundreds of natural foods, health foods outlets. 100-page introduction includes general nutritional information, how to shop, food co-ops and conspiracies (how to start).

Seeding stocks, according to Daryl Ray, state forest nursery manager, are running low, with no stock left of ponderosa pine, incense cedar, grand fir, black locust or hybrid poplar.

Oregon 1973 timber harvest totals: 9.3 billion board feet (compared to 9.6 billion in 1972). Of that total: 3.5 billion from state forest lands, 1.5 billion Bureau of Land Management, 3.8 billion U.S. Forest Service lands, 94.5 million Bureau of Indian Affairs.

TILTH
Rt. 5, Box 699
Shelton, Wn. 98584
The Agriculture Conference Directory is nearing completion. Maybe the first week of February. Copies will be distributed to conference attendees first.

Forbes magazine, Nov. 1, 1974, reported that 800,000 living units were torn down in 1973 nationally ... if the U.S. builds at an annual rate of 1.6 million units, it means a net gain of only 800,000 units.

Canned food as investment portfolio. The Sunday Telegraph, an English newspaper, has suggested to its readers that they put their money where their mouths are—"you can't eat share certificates, and you can't eat fine art. But a portfolio of food will always have an alternative use."
Agricultural Development Division
Agriculture Building
635 Capitol N.E.
Salem, Or. 97310
503-378-3787

Specializes in knowing the 172 products produced in Oregon and acts as marketing consultant, resource coordinator, and transportation trouble shooter for the 37,500 small agri-business farm units in Oregon. Also serves as liaison between exporters and importers.

Process Feasibility Study: The Anaerobic Digestion of Dairy Cow Manure at the State Reformatory Honor Farm, Monroe, Wash. 15 Jan. 1975, by Ecotope Group. 120

120-page report includes section on anaerobic process, plant design criteria, actual design, plant operation and monitoring, investment payback; clear and comprehensive presentation on present state-of-the-art and its application to a 200-300 cow dairy farm. $8 per copy (postal money order only, no checks or cash) from the consultants, Ecotope Group

Box 5599
Seattle, Wn. 98105

Organic Gardening and Farming
Emmaus, Pa. 18049

Suggesting to their 800,000 readers that they read Small is Beautiful and Tools for Conviviality (Ivan Illich), Organic Gardening and Farming began the new year with a statement of purpose of "building security through living on the land."

The January issue is the special seed issue, best sources of seeds in the country.

In the same issue: The Mendocino Industry name
1. Agriculture 16
2. Food processing 30
3. Paper 8
4. Chemicals 10
5. Petroleum refining 5
6. Iron & steel 6
7. Transportation 12
8. Trade 1
9. Other producers 12

Total energy coefficient
$(\text{Kwh/}¥\text{final demand}) = 57,700$

Carbon Monoxide concentrations in Spokane during recent air pollution alerts was 15% higher than any readings anywhere in Los Angeles during the entire year of 1973.

Eight-hour readings for CO reached 36 parts per million at the Monroe Street-Indiana Ave. monitoring station in Spokane on the evening of Oct. 18, 1974, far above the federal eight-hour standard of 9 parts per million which was set by the federal government to protect human health. (EPA Bulletin)

Oregon Statewide Uniform Building Code to be adopted, to be effective July 1, 1975, for the first time provides statewide uniformity, and communities that until now had no building codes will. As part of the building code is a mandatory energy conservation measure, still to be written. Contact:

Ron Schmidt
State Capitol Bldg.
Salem, Or. 97310
503-378-3121

Autonomous Dwellings Collective
Rm. 259, Social Sciences Bldg.
University of California
Santa Cruz, Ca. 95064

A group working with a local environmental consulting firm (Joint Venture) and the environmental studies department of U of C. Compiling a comprehensive file on the use of alternative energy systems in housing: "We have a dual filing system. A card access file identifies people, sources, materials and specific projects by type of life support system. This file is cross-referenced to information files and library sources. They are actively seeking persons willing to share information resources and will respond in kind.

Continued on page 4
ARCHITECTURE
(continued from page 3)

Our House of Stone
Sharon Watson Lewis
Stone House Publications
Sweet, Idaho 83670
$2 which includes a supplement and short general architecture bibliography. The 20-page booklet from an experiential point of view, $2,000 for an 1100 sq. ft. house. You'll probably need more information, but the technique used is reported to be fairly easy.

See also Community, Energy

COMMUNITY

Council of Planning Librarians
Exchange Bibliographies
P.O. Box 229
Monticello, Ill. 61856
National group of librarians, planners and persons interested in library organization and research. Several hundred bibliographies available ranging from $1.50 to $5.00. The several I've seen are good. Overload of course. Lots of areas of information about urban planning, etc, you might not expect. Write for list.

Census Data for Community Action
Data Access and Use Laboratory
Data User Services Office
Bureau of the Census
Washington, D.C. 20233
A 22-page booklet explaining availability, categories of statistics, etc. 50¢. Census data is available through the Dept. of Commerce (in Portland 921 SW Washington, 97205; in Seattle 1700 Westlake Ave. N. 98109). Many libraries also receive all or most census materials.

COMPUTERS

Peoples Computer Company
P.O. Box 310
Menlo Park, Ca. 94025
$5 for 5 issues. For several years now, in tabloid newprint format. Mostly computer games developed by the company (a non-profit group), friends and readers. Some access and "social commentary"—though mostly outlines of computer games. (Also tapes and books are available.)

EDUCATION

Maine Environmental Education Project
Yarmouth, Maine 04096
The community inventory for Yarmouth, Maine, is attractive, useful; a model for real time work studies; like an abbreviated carrying capacity study.

Western Forestry Center
4033 S.W. Canyon Rd.
Portland, Or. 97221
228-1367
Starting a series beginning in June of this year: forestry tours to places like Bull Run watershed, Wind River Nursery, Larch Mountain, John Day or Grande Ronde River float. Write or call for details.

Fisher Stoves
16130 Bothwell Way N.E.
Seattle, Wn. 98135
or
421 N. Water St.
Silverton, Or. 98855
I hear it's getting hard to find wood stoves. Fisher makes solid stoves with good exhaust (heat circulating); with flat cooking surface. Priced from $245 to $350. (Randy Skoog)

Edcentric
P.O. Box 10085
Eugene, Or. 97401
503-343-0810
Edcentric is a radical education journal published 6 times yearly which critically examines both the conventional school system and the movement for educational change. It also attempts to link changes in education to the overall movement for social change. Subscriptions $6 individuals, $10 institutions. Sample copies are available. $1 single issue, $1.50 special issues, c.g. sexism, Chicano education, working class education.

Visual Audio
National Audiovisual Center
Distribution Branch
Washington, D.C. 20409
Films on water pollution, solid waste, and noise. On loan free. Write for list and details.

Public Media Center
2751 Hyde St.
San Francisco, Ca. 94109
Produce good P.S.A. tapes on energy; some with a kind of Firesign Theater. Write for lists, costs. (Randy Skoog)

IDEAS (Institutional Development & Economic Affairs Service, Inc.)
1785 Massachusetts Ave., N.W.
Washington, D.C. 20036
202-483-9045
Provides consultations, training workshops, technical and fund development assistance to groups wanting to begin a Foxxfire-type publication. Usually this activity involves a high school, public school district, and/or state department of education. On occasion we have worked with and through arts and humanities councils, community action groups, historical societies, and bicen-
tennial commissions. We publish a periodical called Exchange which serves as an information exchange among the various projects and those individuals interested in the Foxfire Learning Concept (a free service to projects; individuals may subscribe to Exchange for $3.00 per year). Finally, we have available for purchase various instructional materials in support of the Foxfire idea, including a teachers' guide entitled Moments, by Eliot Wigginton. (Murray Durst)

FOXFIRE PROJECTS (December 1974)


All-ab-ahee, Nazareth High School, St. Thomas, U.S. Virgin Islands 00801. Folk culture and environmental subjects of the Virgin Islands. $6.00 yearly subscription.

Bitternets, Lebanon High School, 416 North Adam Street, Lebanon, Missouri 65536. Crafts, folk music, people and traditions of Missouri's Ozarks. $6.00 yearly.

Cityscapes, Western High School, Washington, D.C. 20007. The Multi-ethnic experience in urban neighborhoods. $2.00 per issue.


Dovetail, Ronan High School, Ronan, Montana 59864. Examines "dovetailing" of white/Flathead Indian experience in Montana mountain region. $2.00 per issue.

Foxfire, Rabun Gap-Nacoochee High School, Rabun Gap, Georgia 30568. Original Foxfire magazine describes crafts, folklife and traditions of the Southern Appalachians. $6.00 yearly subscription.

Furrora, Mount View High School, Thomdike, Maine 04986. Subjects drawn from rural region of interior Maine. Write for subscription information.

Guarsquen, Asociación Dominicana de Boy Scouts, Santiago, Dominican Republic. Spanish language magazine describes traditions of rural Dominican life. $4.25 yearly subscription.

Kil-Kas-Gir, Prince of Wales High School, Craig, Alaska 99921. Publication of Haida and Tlingit Indian students on Prince of Wales Island. $6.00 yearly subscription.

Ko Kakou, Kailua High School, Kailua, Hawaii 96740. Old Hawaiian traditions and their modern interpretations of the island of Oahu. $6.00 subscription.

Laulima, Ka'u High School, Pahala, Hawaii 96777. Rural traditions of Hawaii and Phillipino people and the island of Hawaii. $7.50 yearly subscription.

Loblolly, Gary High School, Gary, Texas 75643. Subjects drawn from rural traditions of East Texas pine country. $5.00 subscription rate per year.

Namib Wayja, Choctaw Central High School, Philadelphia, Mississippi 39350. Traditions and life of the Mississippi Bank Choctaw Indians. $8.00 annual subscription.


Salt, Kennebunk High School, Kennebunk, Maine 04046. Folklore, crafts and traditions of Main lobstermen and rural coastal region. $5.00 yearly subscription.

Sea Chest, Cape Hatteras High School, Buxton, North Carolina 27936. Stories, traditions, and environment of the Outer Banks. $6.00 per year.


Skipjack, South Dorchester High School, Church Creek, Maryland 21622. Life and traditions among oystermen of the Chesapeake Bay. Write for subscription rates.


Ta'a'ai, Ramah Navajo High School, Ramah, New Mexico 87321. Navajo Indian traditions, crafts, and stories. $8.00 annual subscription.


ENERGY

Energy Center 309 Weil Hall University of Florida Gainesville, Fla. 32611 904-392-0941

Where Howard Odum does his energetic studies. The net energy concept which has been known in Oregon for some time through the State Office of Energy Research and Planning, according to a Newsweek article (Jan. 13), is being considered by the Federal Energy Administration and the Environmental Protection Agency. For a good summary of Odum's work, see Whole Earth Epilog; and for some criticism by Hazel Henderson (Office of Technology Assessment, U.S. Congress) see Co-Evolution Quarterly, Winter Solstice issue.

The Center for Science in the Public Interest 1779 Church St. N.W. Washington, D.C. 20036 202-332-6000

The Center is now coordinating the development of a Citizens Energy Platform by national and local poverty, consumer and environmental organizations. It will be presented by registered lobbying groups to the members of Congress as an alternative to the Ford Administration's energy legislation proposals. Persons wanting copies of the statement of principles or wishing to work on the platform itself should contact C.S.P.I.

Nuclear Power, the Once Bright Hope From: Protect the Peninsula's Future P.O. Box 1677 Sequim, Wn. 98382 It is $1.50, not $1.00 as stated in Rain No. 4.

Helion

P.O. Box 4301
Sylmar, Ca. 91342
213-367-8291

"We have developed a 12-or 16-foot windmill (conventional three-blade horizontal axis machine), the plans for which are about ready for publication. This machine has been designed to introduce do-it-yourself builders to the simplicity of all metal (aluminum) wind-wheel blades. This is a 2 to 5 kilowatt class machine. The photo shows a small prototype of one of several hybrid wind systems we have tested . . . we have ongoing projects in solar and methane conversion. Additionally, we conduct lectures—with slides—at local libraries, 4H, and other groups. . . ." (Jack Park)

Appropriate Technology Publications LTD
9 King Street
London W.C. 2, U.K.

All kinds of small scale, low impact technological devices/ideas. Also ask for publications list. They have done lots of field work, utilizing small scale, low energy, labor intensive mechanical aids.

The Rasmussen Report, the study of nuclear reactor safety by the Atomic Energy Commission, has come under criticism in a recent Environmental Protection Agency Report. Especially critical of the AEC's definition of "acceptable risks."

EPA
Waterside Mall Bldg.
4th & M Streets
Washington, D.C. 20002

Continued on page 6
ENERGY
(continued from page 5)

Alcohol for Auto Use?
Currently automobiles consume 13% of the energy used in this country, and yet, alarmingly, the average fuel consumption of American cars has fallen since 1970. There are two basic reasons for this: a) increases in pollution control equipment, which accounts for about 10% of the fuel economy penalty; and b) increased weight and the trend to power equipment which makes up another 10-12% penalty.

Car makers could boost fuel economy by returning to the use of high compression engines, but they would also have to return to using 100+ octane fuels. And, regretfully, it takes more crude oil to produce a barrel of high octane gasoline than a similar barrel of low octane fuel.

Curiously, very little attention has been given to the scheme of adding alcohol to low octane gasoline to gain the effect of higher octane ratings. Studies undertaken at M.I.T. on a number of unmodified, late model cars, show these advantages of a gasoline/alcohol mixture: a) fuel consumption increased from 5 to 13%; b) carbon monoxide emissions decreased by 14-72%; c) exhaust temperatures decreased 1-9%; d) acceleration increased up to 7%; and e) the virtual elimination of engine knock. Interestingly, a 10% alcohol/90% gasoline (90 octane) combination yields a fuel with an octane rating of 94, equivalent to the addition of 0.13 grams of tetraethyl lead/liter of gasoline.

While alcohol is produced rather easily by ordinary commercial methods, the feedstock is ethylene, a petroleum product in rather short supply and needed desperately for commercial fertilizers. Alcohol can also be produced by the fermentation process, in which any carbon containing product can be reduced to alcohol and carbon dioxide in the presence of certain yeasts (a process known to bakers and brewers for centuries). Most first-year biology students have done the experiment in a week's lab experience. Any kind of vegetation waste material from canneries, tanneries, food processors, etc. could be utilized.

Perhaps a small portion of the $20 billion R&D bill now before the president earmarked for nonnuclear energy might be directed toward investigation of the feasibility of alcohol/gasoline mixtures for extending the supply of gasoline for automobile use. (Energy Office Newsletter, State of Or.)

Alternative Sources of Energy
Rt. 2, Box 90A
Milaca, Mn. 56353
$5 for 6 issues. Most people know of this fine magazine. December 1974 issue has especially interesting articles on algae research, driving with wood, solar conference reports, solar heating in slab construction, recycling auto batteries...

Producing Your Own Power. Edited by
Carol H. Stoner. 322 pp. $8.95.
Rodale Press
Emmaus, Pa. 1974
This is probably the best introduction available, with sections written by ASE oldtimers like Henry Clews (Solar Wind Company), Don Marier (Alternative Sources of Energy), Ken Kern (Owner Built Home). Sections on wind, water, fire, solar, general energy needs. Good bibliographies and source listings. For both educational and practical applications.

Office of Energy Research & Planning
Joel Schatz, Director
Executive Dept.
185 13th St., N.E.
Salem, Oregon 97302
503-378-4345
Ask for their complete array of studies including the July 1974 Interim Energy Study. They study energy economics using "net energy" analysis.

Office of Energy Conservation & Allocation
Ms. Julie Seltz
State of Oregon
Salem, Or. 97302
503-452-0340 or 378-8444
They publish our State Energy Newsletter which often contains tidbits you might find useful, and Ms. Seltz can direct you to many more specific sources of information.

Energy Information & Conservation Center
George Harvey
4220 E. Martin Way
Olympia, Wash. 98504
206-753-5420
They also publish a newsletter which can keep you in touch with legal and economic energy news, as well as direct you to more specifically expert information sources.

Prof. Jeffrey Cook
College of Architecture
Arizona State University
Tempe, Az. 85281
602-965-7298
Source for information on 3-dimensional or "sun-rights" zoning for solar heating, costs of solar heating in new and old ("retrofitted") homes.

Prof. John Schade
School of Architecture
University of Wisconsin, Milwaukee
Milwaukee, Wisc, 53201
414-964-1334 or 963-5339
He has written on the economics of renewable energy sources, life-cycle costing vs. present energy accounting systems and serves as an advisor on Wisconsin energy policy now being formed.

Mitre Corporation
Westgate Research Park
McLean, Va. 22101
703-790-7492
Request four reports on solar energy, MTR-6513, 6516, 6537, and 6544, being sure to get -6513, Systems Analysis of Solar Energy Programs, which identifies possible problems with solar-based energy systems. The phone will get you Mr. Richards, the Document Control Librarian.
John Baird, Coordinator for Energy Policy
U.S. Office of Education
Dept. of Health, Ed. & Welfare
5076 R.O.B. 3
7th & D Streets, S.W.
Washington, D.C. 20202
202-245-9826
In trying to entice school boards to use solar heating for new buildings, he runs into many legal and economic questions which he has to satisfy.

Alternative Sources of Energy Magazine
Don Marier
Rt. 2, Box 90A
Milaca, Mn. 56353
Subscribe to ASE to keep up to date on developments. $5/yr.

Marcia Lynch
The Energy Center, OMSI
503-248-5920
Contact above for a copy of my statement at the Portland Project Independence hearings, “Wind and Nuclear-Electric Power: a Cost-Benefit Comparison” and ask for copies of the solar, wind, bioconversion and energetics information sheets.

Robert Gray
School of Architecture & Allied Arts
University of Oregon
Eugene, Or.
503-686-3656
His 150-pg. master’s thesis titled “The Impact of Solar Energy on Architecture” contains much useful information on zoning and planning for solar heating of homes and buildings.

Gail L. Brees
Institute for Environmental Studies
University of Washington
Seattle, Wash. 98195
Ask for a copy of his student discussion paper series 74-1 titled “Windpower: Evolution, Technological Status and Potential for Washington” which contains cost figures.

Undercurrents
275 Finley Rd.
London NW3 England
$5 surface mail, $10 air mail/yr. One of the two basic alternative technology communication vehicles in the British Isles. Frustrating because it’s over there, but scientific dissemination and liberation at its best. Excerpt follows:

Disbelief followed by amused surprise, has been the reaction of most Alternative Technology enthusiasts to the news that the Duke of Edinburgh is visiting the National Centre for the Development of Alternative Technology in Machynlleth, Wales, at the end of October. Alternative Technology, until recently the almost-exclusive province of cranky eco-eccentrics, has become respectable with a rapidity that has taken most AT freaks’ breath away.

Elevated interest in the subject is not even confined to British Royals, as the visit of Queen Juliana of the Netherlands to Siets Leeflang’s rather similar “Small Earth Project” near Eindhoven in mid-October makes abundantly clear. Equally clear is the fact that Alternative Technology enthusiasts are going to have to learn to deal in one way or another with increasingly frequent overtures from the Establishment.

The Society for Environmental Improvement Limited which runs the National Centre, seems destined to become, at least in the mind of the general public, the standard bearer of the Alternative Technology “movement” in Britain. Yet very little is known about the Society in AT circles—apart from the vague general impression that it has hidden wealth and considerable Establishment backing. To shed at least some additional light on the activities and motivations of this embryonic AT Superstar, Undercurrents visited the National Centre a few weeks ago and talked to the Chairman of the Society, Gerard Morgan-Grenville.

The Energy Primer
Available from:
The Catbird Seat Bookstore
1236 S.W. Washington
Portland, Or. 97205
or
Whole Earth Truck Store
588 Santa Cruz Ave.
Menlo Park, Ca. 94025
415-323-0313
Comprehensive, fairly technical book about renewable forms of energy—solar, wind, water and biofuels. The biofuels section covers biomass energy, agriculture, aquaculture, alcohol, methane and wood. The focus is on small-scale systems which can be applied to the needs of the individual, small group or community. (More than 1/4 of the book is devoted to reviews of books and hardware sources. Hundreds of illustrations and a dozen original articles are used to describe the workings of solar water heaters, space heaters and dryers, water-wheels, windmills, wind generators, wood burning heaters, alcohol stills and methane digesters.) The introduction and the final section of the book focuses on the need for energy conservation and some of the problems and potentials of integrated energy systems. $4.50 per copy.

A wind and solar incentives bill has been introduced into the Massachusetts Legislature by State Senator William M. Bulger (D-Boston). The bill, S. 1385, provides individuals and corporations with incentives through both the tax and mortgage mechanisms by providing an outright tax credit and/or deduction on the property or state income tax, and by providing state guaranteed mortgage insurance for that part of any mortgage covering solar or wind equipment costs and installation. For further information, write Francis Koster, Division of Continuing Education, University of Massachusetts, Amherst, Mass. 01002, Phone (413) 545-5410. For a copy of S. 1385, write State Sen. Bulger, Mass. State Legislature, The State House, Boston, Mass. 02133. (L.J.)

Solar House Plans
Henry Mathews
Rt. 3, Box 768
Coos Bay, Or. 97420
$10 for plans of this Coos Bay solar heated home. One of the examples that contradicts the assumption of impracticability of solar heating in northern homes.

“The house was built in 1966 & 67. The solar heating system’s materials cost less than $1,000 and took, working alone, approximately 3 months to build, including building an 8,000 gallon tank. Five weeks were spent in building this heat storage tank—my first tank. The sun provided 75% of the heating. An additional collector 2/3 size was added on Jan. 1, 1974. Solar has since then furnished approximately 90% of the heating.” (From AERO)

Arthur W. Seplack, a technician at the Walton Ranger Station (Montana) shot a trespassing snowmobile to death, Dec. 27, 1974 (nobody was hurt). An investigation is underway. (Vancouver Columbian)

The American Pet Population has increased by 25% in the past decade, now estimated at 60-80 million animals. The pets consume about 3.8 million tons of food a year, including 1 million tons of meat and fish by-products, and 2 million tons of grains, at a cost of $1.6 billion...about 14 million American pets are destroyed every year at a cost of $125 million.

In “The Worst American City” (Harper’s, Jan. 74), Arthur M. Louis, using census data, appraises American cities in terms of 24 areas of support and failure, parks, crime, libraries, infant death, etc. and found Seattle to rank best and Portland sixth.

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**ECO NET REPORTS**

**Energy Center**
A free information sheet titled SOLAR HOME HEATING has recently been put together by Lee Johnson of The Energy Center. It lists what to read and where to get it under such headings as "the self-teaching path to building," "Oregon," "plans," "general surveys," "periodicals," "bibliographies," and "organizations." For free copies, write Ms. Marcia Lynch, The Energy Center, Oregon Museum of Science and Industry, 4015 S.W. Canyon Road, Portland, Ore. 97221. (Lee Johnson)

**ECO NET Video**
The video tape compiled by Eco-Net is now at the printer's and will soon be in the mails.

**RAIN**
Figuring that RAIN speaks for itself, I haven't reported on it in this space, but now it's time to take into account some possible near future changes. RAIN is funded until June 1975, as our choice of communication vehicle to explain what the EEC is about (which is often explaining what other people are doing). So, some choices have to be made.

First, some background information:

MAILING LIST. We started with a mailing list of about 700, the original Environmental Education Center list of environmental groups/agencies, educators, and persons interested in the center. The list is now about 4,300, which includes large dumpings by Bob Philips (video), Lee Johnson (energy, architecture), Marcia Lynch (The Energy Center), OPEN, NW Information Network, and my own hodge-podge. Waiting on the sidelines, wondering how to get on the list, is a pile about 15 inches tall (from Carol Costello), along with another 10 inches.

COSTS. RAIN costs about $1,000 a month to produce, including layout fees, my salary, printing some purchases (review books, etc.), and there is probably $100 to $200 in hidden costs that I can't see cause I'm in the middle of them.

INFORMATION FLOW. Sometimes everything looks relevant; other times any decision is capricious. And how do you judge what people need? Now, you take energy, for example. The field is glutted and it feels like choosing among movie magazines. Now and later we need people who would like to review things, take over a geographic or topical area. Sometimes only abstracting and pointing is restless. We have ideas and longer parcels of information we would like to have the time to produce, and now we are mostly running from one outside interference to another—of course skin is only so vant; other times any decision is capricious. And how do you make it complete. The RAIN catalog will be produced in the same way.

FUTURE. I will soon be writing up a detailed description of RAIN, including exact costs of production, and options of use and support, that I see. Would like to share this with interested people. And even now—would you pay $3 to $5 per year? Could you contribute time, information, space? What things would you change? What are our coming information needs? What means other than subscription could we use to support RAIN?

(S.J.)

**Environmental Living Studies**
COORDINATED BY THE PSU ENVIRONMENTAL EDUCATION CENTER 375 LINCOLN HALL, EXTENSION 4621

The Environmental Living Studies Program at Portland State University offers education for creative, self-reliant living. The program draws from the course offerings of various academic departments--Biology, Chemistry, Applied Science, Art, Health and Physical Education, etc.—that relate to such life support systems as food production, shelter, health, nutrition, energy conservation and related practical technologies. Other courses of environmental interest, but not related to the environmental living theme, are listed in the PSU catalog.

Courses offer both lower and upper division credit and are open to any full or part-time student with payment of regular course fees.

The Environmental Living Studies Program is not a separate division within the University. Rather, it is an attempt to link various academic fields and subjects to student and community interest in defining and implementing, through education, innovative life styles that are in harmony with environmental concerns. The function of the program is to provide a focus and identity for those resources within the University—curriculum, teaching faculty, and research facilities—that are applicable to the program's study area.

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**Shelter & Clothing**

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**Food Production**

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<td>PE 185</td>
<td>Yoga I</td>
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<tr>
<td>BI 410</td>
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<tr>
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**Information & Technology**

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**Health & Nutrition**

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<tr>
<td>BI 250</td>
<td>Nutrition</td>
<td>SUM-3</td>
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The Oregon Energy Report, *Transition* has been published. This 300-page analysis of Oregon’s energy—past, present and future—reviews the implications of various energy sources, including a net energy analysis of 14 energy supply systems, and a discussion of transition to a stable energy base. The report is available for $5 (defraying the cost of printing and mailing). Checks must be made payable to the State of Oregon and mailed to:

Off. of Energy Research & Planning
185 13th N.E.
Salem, Or. 97310


The Source Book Project
Glen Arm, Maryland 21057

You’ve probably noticed the onslaught of books about things like spacemen landing in the inca world, pyramid powers, and 3,000 year old batteries. The Source Book brings together (in a good form: looseleaf—but odd smelling plastic) articles from some of the well respected specialty journals and general science magazines, all about unresolved archeological finds, etc. Fascinating possibilities in the things we can’t explain. It creates a strong sense of there-is-something-weird, even for skeptics explained phenomena.)

See also *Grants, Agriculture, Information*

FUTURES

*Futures Conditional Magazine*
Northwest Regional Foundation
Box 5296
Spokane, Wn. 99205

Formerly published by futurist Robert Theobald, this magazine has been transferred to the Northwest Regional Foundation in Spokane, Wash. In Spokane this two-year-old publication will be redesigned to become an information service for groups and communities that are using the Bicentennial as a vehicle for thinking about their future. Each year ten “information packages” will be published dealing with issues of community and futures concern. These packages will contain project ideas and models, a switchboard of events and experiments, and directions to other resources. The first issue of the new *Futures Conditional* will be available by the end of February. Subscription rates will be $20/year.

The Futurist
World Futurist Society
P.O. Box 30369
Bethesda Branch
Washington, D.C. 20014

Often interested in high technology solution/salvation, the Oct. 74 issue is devoted to post-affluence, long-term energy goals. The futures people and energy scarcity, still an uncommon coalition. $2 single issues, $12/yr.

Simulation Sharing Service
221 Willey St.
Morgantown, W.V. 26505

An ecumenical service to promote the use of simulation/gaming in the church’s ministry. $5 for 10 issues. Correspondents keeping others up to date. Not as detailed an *Simulation Gaming News.* Obviously, especially for gaming in church. Write for sample copy.

Creative Computing
P.O. Box 789-M
Morristown, N.J. 07960
201-267-5559

Educational games in schools, computers and society—equipment. Jan/Feb. issue: computer-generated super 8 movies, limits to growth, palindromes, Plato project report, electronic journalism. Many reprints from other more technical computer journals.

In upcoming issues: role of computer in expanding universe, space exploration—game of survival between various alien life forms such as intelligent gas, anti-material being, radioactive rock . . .

See also *Computers*


Books are getting better in general, I think. It seems if this book were about 10 years ago it would be a polemic—a declaration in hardback cover. But *The End of Affluence* is a $1.95 paperback and gives you very direct alternative actions. Real addresses. It is also a good pulling together of all those miscellaneous things you’ve heard about or kind of know, about weather change, famine, industrial dependencies and inefficiencies, protein economy. Action/solutions are political, educational (& research) as well as self-sufficiency and survival.

GOVERNMENT

OPPORTUNITIES

- The Institute for Local Self-Reliance is looking for two or three people to work on the development of a social accounting system, writing a newsletter, and other publicity. Salary $2000 per month, write ILSR, 1171 18th St., NW, Washington, D.C. 20009 (202-393-4106).
- The Prisoners Rights Project, a legal services program for prison inmates, is seeking an executive director. Applicants should have administrative and criminal or prison law backgrounds. Write: Richard Shapiro, Prisoners Rights Project, P.O. Box 5296, Boston, Mass. 02116, (617-482-2737).
- Ralph Nader’s Public Citizen is seeking several people to do research, writing, and other political work on the nuclear power issue. Write Faith Keating, 135 C St., N.E., Washington, D.C. 20003 (202-444-6956).

- By February 7, 1975, comments must be submitted to the Agriculture Department’s proposed labeling regulations governing geographic origin of meat and poultry products. See Fed. Reg., 11/27/74.
- By March 9, 1975, comments must be received on the Food and Drug Administration’s proposals governing poisonous or deleterious food contaminants. See Fed. Reg., 12/6/74.
- By March 7, 1975, comments must be received by the Hazardous Materials Regulation Board’s proposals governing hazard information systems. See Fed. Reg., 12/10/74.
- From April 16–17, 1975, Cornell University is sponsoring a nationwide “Conference on Energy, Agriculture and Waste Management,” to focus on energy requirements for agricultural production and the feasibility of generating energy from agricultural wastes. For details, write: W.J. Jewell, 202-Riley-Robb Hall, Cornell University, Ithaca, NY 14853.
- From June 5–9, 1975, the National Audubon Society and the Sierra Club will host the world’s first privately-sponsored international conference on the world’s dwindling natural areas—forests, grasslands, tundra, wetlands, islands, etc. It will take place in New York City. For more info, write: Eartheart, 777 United Nations Plaza, New York, N.Y. 10017.

GRANTS

Northern California Committee for Environmental Information
P.O. Box 761
Berkeley, Ca. 94701

Affiliate of the Scientists’ Institute for Public Information. Grant from the Office of Education $24,000 to develop written materials on the environmental significance of alternative sources of energy and pests and pest control practices.

See also *Information*

INFORMATION

ECOL, book catalog. American Library Assn., Chicago, 1974. 195 pp. $6.95. A catalog (annotated bibliography) of the conservation library of Minnesota; one of the best in the country. This could be quite useful for people wanting to set up libraries as well as a valuable reading list for teachers and students. (It does have some Minnesota region emphasis.) Continued on page 10
An Introduction to Brainstorming

"Brainstorming" is the first in a series of RAIN-sheltered print tools designed to shape more positive and practical alternatives to a future in which the world's resources grow more scarce, and the rate of change calls for changes in our attitudes and life styles.

The Roughdrafts represent a philosophy about survival through dissemination of public information, learning to do things for ourselves, and moving beyond institutional territoriality. In large part, the philosophy has been envisioned by Don Stotler, Director of the Environmental Education Center, in his many books and publications over the last twenty-five years.

As the name "Roughdraft" implies, the information presented here is by no means the "last word" on a subject, but rather a tentative answer and a hitching post around which to organize our concerns for now. If the Roughdrafts speak to things that have been on your mind, we'd like to know about that. Hopefully, your copy of each Roughdraft will be flexible and durable enough that you can punch it out, hang it up, bring it to the park and on picnics, and pass it on to friends. Most important, we hope to hear about your visions and revisions of each draft.

There are a few other ideas on our minds which will be shared in upcoming issues of RAIN. How to get funded, how to do a model block, how to close a street, and how to get centers started, are a few of them. What would you like to see in future drafts? Does anyone know how to tan leather? How about the best soap and candle-making recipes? RAIN will publish your Roughdrafts if we can be provided with the information, and we can pass on your suggestions for Roughdraft topics to people who might help us decide what to say about them.

Here are my suggestions for future Roughdrafts:

Other comments:

To: Environmental Education Center
9/6 Anita Helle
Room 373 Lincoln Hall
Portland State University
Portland, Oregon 97201
The North Park Blocks were the brainstorm of some of Portland's founding fathers: Daniel H. Lownsdale, Benjamin Park, Capt. John Chapman and Capt. John Couch.
STORMING THE BRAIN—WHAT IS IT?

A GROUP THINKING PROCESS, A TECHNIQUE AND A TOOL FOR PRODUCING IDEAS FOR ANY GROUP

- combats institutional boggle by generating new perspectives, projects and ideas
  *What can be done about automobile industry layoffs?*

- stimulates the creation of new institutions
  *How can half a million dollars be raised for a museum of science and industry?*

- produces alternatives in a problem-crisis dilemma
  *What can be done about low stream-flow in the winter months?*

- inventories resources in a subject area as a way of initiating a file or a directory
  *What are some instances of urban agriculture in Portland?*

- enhances cooperation and trust among participants

PREPARATION

**Determine a location**
A relaxed but interesting atmosphere, preferably new to most participants, stands the best chance of encouraging fresh perspectives.

**Determine a time**
The first and last days of the work week are not usually the best times to get the group's undivided attention. A poll of our office suggests that morning rather than afternoon may be a preferred time for idea-spinning. Many sessions will, by necessity, have to be held during evening hours or on Saturdays.

**Should a briefing document be prepared?**
Is it necessary to provide participants with background information?

**APPOINT A FACILITATOR**

*The facilitator should be a good communicator,* able to prevent some members from dominating and some from holding back, able to stimulate and restate ideas without taking sides.

**SELECT GROUP MEMBERS**

*Depends, in part, on your purpose*

*Creativity is not a criterion*
The brainstorming process produces ideas for folks like us.

*Different interests/experiences should be represented*
Invite people with opposing viewpoints. Balance the group in terms of those who are acquainted and those who aren't acquainted. The right amount of tension can result in a state of "creative instability," in which people are stimulated to express themselves, but not inhibited by the expressions of others.

**STATE THE PROBLEM**

*State the problem in a single sentence*
Write it on the chalkboard or on butcher paper where it will be visible throughout the session.

After the statement has been drawn up by the group, the facilitator should ask for confirmation: Is this the way we want to state the problem?
LOGGING A BRAINSTORM

During a brainstorming session, each new idea is, in one sense, a creative product of all of the other ideas which have been expressed. In a super-techno world, comments could be instantly reflected on a common exchange board which would be visible to everyone in the room. Before the session begins, however, consider some of these alternative methods of logging brainstorms. The technique which is chosen should maximize each individual’s ability to gain from the ideas of others. The object of a brainstorming session is to produce a maximum number of ideas.

1. **Use a chalkboard or butcher paper**
   Chalkboard should be visible to everyone in the room. The facilitator or another member of the group performs the function of restating the comments as the session proceeds, although he does not interrupt the flow of ideas by offering them up for debate. The comments are summarized in key phrases which retain the essence of the comment. Writing the name of the person who is speaking next to the key-phrase comment is one way of verifying who said what and what was really said during the follow-up evaluation sessions. Key phrases may be arranged spatially and connected with arrows or other graphic indicators to show the inter-relationship among ideas and the order of development.

2. **Use a tape recorder**
   The machine should be turned on at the beginning of the session and placed fairly unobtrusively in the room. It should be left undisturbed during the session itself. This method provides actual documentation for review during evaluation session.

3. **Provide everyone in the room with scratch paper for notes**
   This enables people to develop their thinking in idiosyncratic doodles, and to take home a self-styled copy of what went on during the session. This method should not, however, become an inhibitor. Try it.

4. **Use 3” x 5” cards**
   Herb Giffen, architect at Skidmore, Owings & Merrill in Portland, uses 3” x 5” cards during his brainstorming with clients. He jots down one major idea per card, and when the session is over, client and architect can work to arrange the cards in a pattern which best reflects their thinking. The 3” x 5” cards can substitute, in process, for the chalkboard technique.

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**STIMULATE FANTASIES**

- **Encourage wild ideas**
- **Encourage humor**
- **Defeat judgment**
  Approving and disapproving comments are not allowed. Even if someone says “that’s a great idea,” spontaneity is interrupted. A disapproving statement expressed too early can squelch an idea which might later unfold.

The question of how to encourage the expression of ideas demands sensitivity on the part of the facilitator to the size and composition of the group. Here simple how-to-do-it formulas break down, and the importance of choosing a good facilitator is re-emphasized.

**LOOK AT LIMITATIONS AND POSSIBILITIES**

This signals the end of the brainstorming session.

Participants review log, applying judgments and evaluation of practical criteria.

For every limitation there’s a possibility. Don’t throw out ideas too quickly.
HITCHING POSTS

Frederick Schiller to a friend complaining of lack of creativity:

"Appar e ntly it is not good— and indeed it binders the creative work of the mind—if the intellect examines too closely the ideas already pouring in, as it were, at the gates . . . In the case of the creative mind, it seems to me, the intellect has withdrawn its watchers from the gates, and the ideas rush in pell-mell, and only then does it review and inspect the multitude. You worthy critics, or whatever you call yourselves, are ashamed or afraid of the momentary and passing madness which is found in all real creators, the longer or shorter duration of which distinguishes the thinking artist from the dreamer."


BRAINSTORMING began to denote a group thinking process during the thirties. Alex Osborne, of the ad agency Batten, Barton, Durstine & Osborne pioneered the use of a brainstorming technique, in part as a way of demystifying the creative process. Osborne’s approach was “originally a random search method; requiring no advance preparation, it was frequently misdirected, therefore unproductive.” In the 1950s, large corporations like Rand and Boeing began to hire so-called “high-creativity” individuals for their “think tanks.” But successful group brainstorming does not, in fact, require highly creative thinkers. The essence of the brainstorming process lies in the combination of perspectives and talents exercised in a positive atmosphere of trust.


SYNECTICS — A term used by Wm. J. J. Gordon to describe levels of analogical thinking which he felt encouraged creative problem-solving: (1) direct analogy (What resembles a virus colony?) (2) personal analogy (How do I feel as a virus?) (3) fantasy analogy (What are one’s wildest fantasies about viruses?)


BIONICS refers to using natural systems as analogies for man-made systems. The notion of radar, for example, was stimulated in part by an understanding of how selective vision operates in frogs. A brainstorming problem might be stated in terms of an analogy which might be easier for group participants to understand, and which might produce fresh perspectives. The food chain relationship between rabbits and predators might become an analogue for the consumer-producer relationship in human systems.


ROUGH DRAFTS are written and published at the Environmental Education Center, a U.S. Office of Education funded project located at 317 Lincoln Hall, Portland State University, Portland, Oregon. Among those who provided information on brainstorming are Herb Giffen, Skidmore, Owings & Merrill, architects; Kent Layden, Center for Urban Education; Dale Simmons, Professor of Psychology, Oregon State University. Anita Helle, editor; Victoria Johnson, graphic artist.
A RESOURCE INDEX—more or less related to brainstorming:

**ART:**

Paintings by René Magritte, Belgium. Magritte is a well-known surrealist whose canvases are among the most tantalizing exercises of the imagination. By displacing real objects from their conventional contexts, Magritte unfolds for us a mental landscape in which fixed notions become, like chess pieces, part of a manipulable game.

**BOOKS AND PERIODICALS:**

**Brainstorms: A Study of Human Spontaneity**
Wayne Barker, M.D.
Grove Press
53 E. 11th Street
New York, N.Y. 10003

Discusses recent research into the mental "storm" associated with epilepsy and their relationship to cognitive processes; 1968.

**Centering**
Wesleyan University Press
100 Riverview Center
Middletown, Conn. 06457

A potter uses the centering of a shape on a potter's wheel to explain how fixed notions become, like chess pieces, part of a manipulable game.

**Change**
Arthur Lockwood
Watson-Guphill Publications
165 West 46th Street
New York, New York 10036

A historical survey of conceptual diagrams/maps. Provides useful models on how to manipulate the concept in graphic form.

**Dimensions of Change**
Dawn Farm
Glencoe Publishing Company
MacMillan Co.
Riverside, New Jersey 03075

This book spins the future from the past, adventuring into the "possible" without the limitations of the impossible. An inspirational piece of reading which might work like a primer for a brainstorming session; 1971.

**Environmental Problem-Solving: A Process Manual**
Union of Young Environmentalists
University of Wisconsin
at Green Bay
Green Bay, Wisconsin

This book describes a method of problem-solving that is small national environmental service organization formed by and for young people. The manual is the result of a national workshop in Environmental Problem Solving sponsored by the Union. A one-of-a-kind publication, Problem-Solving documents the environmental problem-solving process as applied to the Green Bay Port Plaza Shopping Mall study, and provides generalized information about this process, including brainstorming, funding, and research methods.

**Exploring Madness**
(James Fadiman and Donald Newman, eds.)
Wadsworth Publishing Company
Brooks/Cole Division
540 Abrego Street
Monterey, California 93940

Keeping in mind that Shakespeare's fool was often wise, and that what appears to be the truth is not always "sane," this journey through the lunatic's galaxy may enhance the ability to hold a number of realities in the mind at once—a talent which sometimes associates creative thinking with madness, 1973.

**How to Solve It**
G. Polya
Doubleday & Company
501 Franklin Street
Garden City, New York 11531

Contains a checkpoint for brainstorming. "Inventor's Paradox". The more ambitious plan may have more chances of success. When passing from one problem to another we may often observe that the new, more ambitious problem is easier to handle than the original problem." (The Last Whole Earth Catalogue)

**The Journal of Creative Behavior**
New York State University College
1300 Elmwood Ave.
Buffalo, New York 14222

Published quarterly. Belongs in the bibliography of well-regarded periodicals on the subject of creative thinking.

**The Act of Creation**
Arthur Koestler
Hutchinson Press, London
Available from Dell Publishing Co., Inc.
750 Third Avenue
New York, N.Y. 10017

Presents a cognitive-perceptual model which relates humor to the creative process; 1964.

**Machine Design**
"Creativity by Committee" December 12, 1974. Vol. 46, No. 30
Penton Plaza
1111 Chester Avenue
Cleveland, Ohio 44114

An example of how brainstorming techniques are being modified to suit contemporary use in various fields.

**Programming and Metaprogramming in the Human Biocomputer**
John Lilly, M.D.
Julian Press
130 5th Avenue
New York, N.Y. 10011

An analogue, a travelogue, a lexicon of life programs, Programming and Metaprogramming is, at the very least, a tough but rewarding adventure. The central metaphor involves the cerebral computer, and the self as programmer and collaborator. Lily's hares are Cartesian, organismic, evolutionary. Recommended by Kent Layden, 1972.

**The Psychology of Consciousness**
Robert E. Ornstein
W.H. Freeman & Company
660 Market Street
San Francisco, California 94104

Ornstein sidesteps some of the knots of ontology, technology, et al. to provide a lucid and intriguing perspective on the puzzle of the way we think; 1972.

**Psycho-Sources**
Bantam Books, Inc.
666 Fifth Avenue
New York, N.Y. 10019

A psychology resource catalogue in Whole Earth format; 1973.

**A Sourcebook for Creative Thinking**
Harold F. Harding and Sydney J. Farnes, eds.
Scribner's Sons
597 Fifth Avenue
New York, N.Y. 10017

A collection from a symposium on creative thinking held at the University of Buffalo, New York, an international research center on the subject; 1972.

**Training Creative Thinking**
Gary A. Davis
Holt, Rinehart & Winston
New York, N.Y. 10017

Documents brainstorming studies carried on largely through industry; 1963.

**FILM:**

*Andalusian Dog* by Luis Bunuel, 1929.
*Kit Parker*
P.O. Box 227
Carmel Valley, California
A Bunuel-Dali collaboration.
The Smallholder
Argenta, B.C.
Canada
$3/12 issues. A kind of rural resources and information two-way newsletter, back to land, mother earth, especially for B.C. area. Looks like good information, friendly network of people.

The Housing and Urban Development Dept. has issued a set of performance criteria for construction of solar buildings under the Solar Energy Heating and Cooling Demonstration Act. Write for details:
451 7th St.
Washington, D.C.

Evergreen Environmental Resource/Research Center
c/o Don Blanchard
Rt. 14, Box 560-A
Olympia, Wn. 98502

"The basic concept underlying the center is access to tools—the legal, technical and tactical tools required by citizens to effectively address environmental issues.

"To facilitate this access, the project will devote itself to acquiring information resources and providing for their systematic organization."

The center has found office space and some monies. Plans for the future include: status report on wilderness areas and scenic waterways, profiles of NW congressional delegates, access file on groups, media campaign, research in nuclear power areas.

Energy for Survival. Wilson Clark, Doubleday Co., 1974, 652 pp. $12.50. This is a massive "textbook" on energy that breaks down all the available energy systems/devices. Hundreds of references. Good also because it covers technical information, but also political and social aspects. (Primary point of view: conservation)

Institute for Scientific Information
325 Chestnut St.
Philadelphia, Pa. 19106
215-923-3300

The institute has announced it will collaborate with System Development Corporation to provide information specialists and researchers with online, interactive, computer searches of the life sciences journal literature, covering every editorial item, from about 1,100 of the world's most important life science journals. The service initially offers a searchable file of over 400,000 items published between April 1972 and the present.

U.S. Environmental Protection Agency
Region X (Alaska, Idaho, Or., Wn.)
1200 Sixth Ave.
Seattle, Wn. 98101

They publish a periodical listing of completed impact statements, listing where document is available. Write, contact: Walter Jaspers.

Treasures of the Oregon Country, Maryard C. Drawson, Vol. II. $6.95. Continuation of first volume; both expensive "beautiful" guides to selected remote places in Oregon, and sometimes not so remote, just kind of odd/ unusual, like in Oregon for the Curious.

Environmental Quality, 5th Annual Report of the Council on Environmental Quality

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

$5.20. Brings together much data of "progress" made in environmental quality; includes information on state land use bills, water quality, pesticide and production, mineral demands. A good attempt at stopping some information movement.

See also Community, Energy, Networks

MEDIA

KXL Radio in Portland, in cooperation with the Oregon Consumer League, has volunteered to use phone lines for consumer complaints, especially short-counting problems. (503) 654-3193.

The Falls
W. 621 Mallon
Spokane, Wn. 99201

A new weekly from the inland empire. According to the editor, Jack Gerraghty, modeled somewhat after Willamette Week. $10/yr.

NETWORKS

Parkrose Community School in Portland has initiated a "people file," similar to the one at the Environmental Ed. Center, Vancouver, Wn. Public Library, Evergreen State College and other learning exchanges. The file will contain names of people and their special interests, which they might be willing to share with others.

Community Schools
14020 N.E. Thompson
Portland, Or. 97230
Sources and Resources

Issue Packet on World Hunger has been prepared by the American Freedom From Hunger Foundation. It includes several short articles on the world food crisis, a Fact Sheet on World Hunger, a list of additional readings, and a document of suggested strategies for confronting world food shortages published by the U.N. Food and Agriculture Organization. Available for $1.50 from the American Freedom From Hunger Foundation, 1100 17th Street, N.W., Suite 701, Washington, D.C. 20036.

Things to Come, The World Food Crisis —The Way Out published by the U.N. Food and Agriculture Organization is an excellent introduction for understanding the background and issues of the current world food shortages. The booklet, although prepared prior to the World Food Conference, incorporates the main topics of debate. It contrasts the well-fed and hungry worlds through many aspects: supply, technology, distribution, production, and prices. The booklet is available for $1.00 from UNIPUB, Inc., 650 1st Avenue, P.O. Box 433, New York, N.Y. 10016.

RECYCLING


Both from:
Supt. of Documents
U.S. Gov. Printing Office
Washington, D.C. 20402

As well as use by methane production, the use of "sewage" in application as "fertilizer" is important method of recycling. Saves a step, doesn't it?

World Energy and Materials
P.O. Box 1041
Taos, New Mexico 87571

Recycled products used in construction; bearing wall systems using tires; recycled cans. Still to be published information on building furniture out of recycled goods. Write for price and description.

Consumer Lobby for Refillable Beverage Containers
c/o Paul Mitchell
Rt. 14, Box 745
Olympia, Wa. 98502

Attempting to get legislation enacted similar to Oregon's bottle bill.

WATER

Student Oceanography Newsletter
Published by Seaside High School
1902 N. Holladay Drive
Seattle, Or. 97138

A vehicle of communication among marine science students in secondary and junior high programs. A well-done 4-page quarterly; good model for student newsletters. Informative coastal environment articles.

Energy Map of the State of Washington
State House Committee on Transportation & Utilities
Room 232, House Office Bldg.
Olympia, Wa. 98504

Free 3' by 4'. Flow charts, statistical tables on energy use, availability, etc. Good for classrooms.
U.S. Water Quality Trends, 1963-72

<table>
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<tr>
<td>Turbidity</td>
<td>500 mg/l-aquatic life</td>
<td>28</td>
</tr>
<tr>
<td>Temperature</td>
<td>90°F-aquatic life</td>
<td>0</td>
</tr>
<tr>
<td>Color</td>
<td>75 ppm-aquatic units</td>
<td>0</td>
</tr>
<tr>
<td>Ammonia</td>
<td>0.89 mg/l-aquatic life</td>
<td>16</td>
</tr>
<tr>
<td>Nitrate (as N)</td>
<td>0.9 mg/l-nutrient</td>
<td>12</td>
</tr>
<tr>
<td>Nitrile plus nitrate</td>
<td>0.9 mg/l-nutrient</td>
<td>18</td>
</tr>
<tr>
<td>Total phosphorus</td>
<td>0.1 mg/l-nutrient</td>
<td>34</td>
</tr>
<tr>
<td>Total phosphate</td>
<td>0.3 mg/l-nutrient</td>
<td>30</td>
</tr>
<tr>
<td>Dissolved phosphate</td>
<td>0.3 mg/l-nutrient</td>
<td>11</td>
</tr>
<tr>
<td>Dissolved solids (105°C)</td>
<td>500 mg/l-water supply</td>
<td>25</td>
</tr>
<tr>
<td>Dissolved solids (180°C)</td>
<td>500 mg/l-water supply</td>
<td>28</td>
</tr>
<tr>
<td>Chlorides</td>
<td>250 mg/l-water supply</td>
<td>12</td>
</tr>
<tr>
<td>Sulfates</td>
<td>250 mg/l-water supply</td>
<td>12</td>
</tr>
<tr>
<td>pH</td>
<td>6.0-9.0-aquatic life</td>
<td>0</td>
</tr>
<tr>
<td>Dissolved oxygen</td>
<td>4.0 mg/l-aquatic life</td>
<td>0</td>
</tr>
<tr>
<td>Total coliforms(MFD)</td>
<td>10,000/100ml-recreation</td>
<td>24</td>
</tr>
<tr>
<td>Total coliforms(MFI)</td>
<td>10,000/100ml-recreation</td>
<td>50</td>
</tr>
<tr>
<td>Total coliforms(MPN)</td>
<td>10,000/100ml-recreation</td>
<td>23</td>
</tr>
<tr>
<td>Fecal coliforms(MFD)</td>
<td>2,000/100ml-recreation</td>
<td>45</td>
</tr>
<tr>
<td>Fecal coliforms(MFI)</td>
<td>2,000/100ml-recreation</td>
<td>17</td>
</tr>
<tr>
<td>Phenols</td>
<td>0.001 mg/l-water supply</td>
<td>86</td>
</tr>
</tbody>
</table>

1 Levels associated with water quality protection for each parameter and type of water use.
2 Guidelines for Developing or Revising Water Quality Standards, EPA Water Planning Division, April 1973.
3 Criteria for Water Quality, EPA, 1973 (Section 304(a)(1) guidelines).
5 Membrane filter delayed, membrane filter immediate, most probable number, membrane filter.


WATER
(continued from page 11)

WHOLE SYSTEMS

Portland Noise Ordinance. The revised ordinance is now available for public discussion.

Paul Herman
Neighborhood Environment
City of Portland
2040 S.E. Powell Blvd.
Portland, Or. 97202
248-4465

Co-Evolution Quarterly
558 Santa Cruz
Menlo Park, Ca. 94025

$6/yr. The winter solstice issue ($2) contains some of the most apt and far-reaching environmental information and guidance around. As well as Whole Earth Epilog updates. Also some unpublished work by Gregory Bateson (and his call for a conference on power—not energy, that too); Warren McCullough, Lewis Mumford. Apocalypse Juggernaut, hello. Energetics short-comings, man made planets, lunacjection, preventive dentistry.


This 560-page directory is the best I've seen because it gives enough detail per entry, and defines environment to include architecture, energy in many ways, agriculture, and, of course, gamma rays and bird watching. Organizations, newsletters, trade journals, federal, regional, state, interstate agencies, study centers. Doesn't include very many little things. An invaluable library tool.

Wind Power Digest
Access to Wind Energy Systems
Rt. 2, Box 489
Bristol, In. 46507

$2 postpaid. Available some time in February. Hardware and literature (plans, kits, etc.) review. (Mike Evans, Wind Power Digest)

Eros Data Center
Sioux Falls, S.D. 57198

The center offers image products from the Earth Resources Technology Satellite, some high flight general aerial and skylab. Prices, for example, 29.2" paper positive photograph, $12; $2 for film negative (2.2'). It is not a simple catalog type order. You have to make decisions like maximum acceptable cloud cover, latitude and longitude, time of year, etc. (sometimes ERTS data can be disappointing without the aid of computer analysis or aerial photography expertise—though the color may be worthwhile.

The Cumberland General Store

Tools that last because they HAVE lasted, available from where they're still manufactured. A better investment than gold.

We've never seen a finer catalog.

The Cumberland General Store

Wish And Want Book

1974; 246pp.

$3.00 postpaid

From: Cumberland General Store
Route 3
Box 479
Crossville, TN 38555

"GOOTLESS SUB" DRUM OVEN with Thermometer & Boot CATHERS. Equipped with thermometer and boot which can be used as cookie sheet or biscuit pan. Practiced in the kitchen for baking and warming foods. Belongs to the oven door open, it acts as a radiator and throws off a surprising amount of heat at no additional expense. Merely turn the base into the oven with a fork. Bakes and roasts evenly, cooks while walks for short periods. Size: 16 in. long x 14 in. diam. Cookie sheet 13 x 13 in. Special order for 5 inch diameter. Shipping wt. 17 lbs. H12 x W12 x D12.5.

From: Co-Evolution Quarterly


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From: Co-Evolution Quarterly
NW Guide to Environmental Groups

This list was compiled mostly from our mailing list. It is not complete; it will only be complete when you tell us what is missing; also in a final version we will print descriptions of the groups. Save us postage; time, etc., by sending your own description. The list does not include governmental agencies (with some notable exceptions).


ASSOCIATIONS & ORGANIZATIONS

CONSUMER

Consumer Food Council, 6844 SW 62nd Pl., Portland, Or. 97219.
Consumer Rights Research Center, 107 Commonwealth Hall, University of Oregon, Eugene, Or. 97403.
Educated Consumer Food Council, 1734 NW Aspen, Portland, Or. 97210, 233-1614.
Oregon Consumer League, 3131 NW Layur Terrace, Portland, Or. 97210, 228-8787.

ARCHITECTURE & DESIGN

Community Design Center, 723 SE Grand Ave., Portland, Or. 97209.
Design Collaborative, 123 NW 2nd, Portland, Or. 97209.
Skidmore, Owings & Merrill, Environmental Study Group, 900 SW 5th, Portland, Or. 97204.

ENERGY

Alternative Energy Resources Organization, 417 Stapleton Bldg., Billings, Mt. 59101.
Coalition for Safe Power, 3423 NE Siskiyou, Portland, Or. 97212.
Consumer Power League, 3920 NE Highland St., Portland, Or. 97219.

Committee for Conservation of Energy, Rt. 1, Box 1205, Wilsonville, Or. 97070.
Delphian Foundation, Rt. 2, Box 195, Sheridan, Or. 97378.
Energy Conservation and Allocation, Oregon Office of, 528 Cottage NE. Rm. 301, Salem, Or. 97310.
Energy Information Center, 4220 E Martin Way, Olympia, Wn. 98504, 753-5420.
Energy Research and Planning, State of Oregon, 185 13th St., Salem, Or. 97310.
ECOTOPE, 531 NE 96th Pl., Seattle, Wn. 98115.
Linfield Research Institute, Linfield College, McMinnville, Or. 97210.
OMSI Energy Center, 4015 SW Canyon Rd., Portland, Or. 97221.

GENERAL

Air Quality Coalition, 216 Broadway East, Seattle, Wn. 98102, 329-4411.
Arboretum Coalition, 1927 26th E, Seattle, Or. 98121.
*A.S.U.O. Survival Center, M-111, ERB Memorial Union, Eugene, Or. 97403, 686-4356.
Bay Area Environmental Committee, P.O. Box 3385, Empire Station, Coos Bay, Or. 97420.
Bay Area Environmental Council, 270 Johnson, Coos Bay, Or. 97420.
Bicycle Lobby, 3003 NE 25th, Portland, Or. 97212, 287-8251.
Bring Recycling, P.O. Box 865, Eugene, Or. 97401, (503) 746-3023.
Costwatch Oregon, P.O. Box 488, Portland, Or. 97207.
Coalition for a Safe Environment, 3123 Eastlake Ave. E, Seattle, Wn. 98102.
Clatsop Environmental Council, P.O. Box 504, Astoria, Or. 97109.
Clackamas Environmental Council, Rt. Box 235AA, Clackamas, Or. 97015.

Citizens for Clean Environment, P.O. Box 255, Corvallis, Or. 97330, 754-1215.
Citizens for Better Government, P.O. Box 1482, Vancouver, Wn. 98663.
Citizens Coalition for Clean Air, 1020 SW Taylor, 830 Medical Arts Bldg., Portland, Or. 97205, 224-5145.
*Center for Urban Education, 0245 SW Bancroft, Portland, Or. 97201.
Coast, Star Rt., Box 84, Newkowin, Or. 97419.
Consumer Lobby for Refillable Beverage Containers, c/o Paul Mitchell, Rt. 14, Box 745, Olympia, Wn. 97502.
Desert Trails Assn., P.O. Box 589, Burns, Or. 97720.
East Salem Environ. Council, 390 Fir Knoll Lane, Salem, Or. 97311.
Eco-Activists, 830 E. 24th, Albany, Or. 97321.
Environmental Action Council, Cooperative Fisheries Unit, University of Idaho, 83884.
Environmental Action, P.O. Box 652, Gresham, Or. 97030, 761-5682.
Environmental Defense Fund, University of Washington Law School, Condon Hall, Seattle, Wn. 98195.
Environmental Law, Oregon State Bar Assn., 808 SW 15th, Portland, Or. 97205.
Eugene Future Power Committee, P.O. Box 5274, Eugene, Or. 97405.
Evergreen Environmental Resource/Research Center, Rt. 14, Box 560-A, Olympia, Wn. 98502.
Federation of Fly Fishermen—NW Region, 3805 46th Ave. SW, Seattle, Wn. 98116.
*Federation of Western Outdoors Clubs, 4534½ University Way NE, Seattle, Wn. 98105.
Friends of the Earth, 3123 Eastlake East, Seattle, Wn. 98102.
Friends of the Earth, P.O. Box 882, Billings, Mt. 59103.
Friends of the Three Sisters, Wilderness, Inc., 2310 Trillium, Eugene, Or. 97405.
*Friends of Tryon Creek Park, P.O. Box 493, Lake Oswego, Or. 97034.

Continued on page 14
ENVIROMENTAL GUIDE
(continued from page 13)
Greater Sawtooth Preservation Council, P.O. Box 1156, Idaho Falls, Idaho 83401, (208) 522-9665.
Greater Sawtooth Preservation Council, P.O. Box 1156, Idaho Falls, Idaho 83401, (208) 522-9665.
Hells Canyon Preservation Council, P.O. Box 2693, Idaho Falls, Idaho 83401.
Hells Canyon Preservation Council, Wallowa Chapter, Box 254, Enterprise, Or. 97825.
Hood Canal Environmental Council, P.O. Box 87, Seabeck, Wn. 98380.
*Idaho Alpine Club, P.O. Box 2885, Idaho Falls, Idaho 83401.
Idaho Environmental Council, P.O. Box 3371, University Station, Moscow, Idaho 83843, (208) 526-9407.
Independent Water Committee Project, 13007 8th NE, Seattle, Wn. 98125.
*Izaak Walton League, Oregon director: Rod Munro, 3300 SW Ridgewood Rd., Portland, Or. 97225.
*League of Women Voters, Comm. on Environmental Programs and Projects, 495 State St., Suite 212, Salem, Or. 97301.
League of Women Voters, Environmental Committee—Rogue Valley, 2913 El Dorado Dr., Medford, Or. 97501.
League of Women Voters, Environmental Committee, 755 Clay St., Ashland, Or. 97520, 482-5425.
Local Action for National Clean Environment, Star Route 1, Box 210, Hoodsport, Wn. 98548.
Living Earth, 2806 NE 11th, Portland, Or. 97212.
Main St. Gathering, 5124 NE Cleveland, Portland, Or. 97211.
Mazamas, 909 NW 19th, Portland, Or. 97209, 227-2345.
Mazamas, 909 NW 19th, Portland, Or. 97209, 227-2345.
Merce Island Environmental Council, P.O. Box 741, Mercer Island, Wn. 90040.
Mid-Coast Living Council, P.O. Box 35, Westlake, Or. 97439.
Mountaineers, P.O. Box 122, Seattle, Wn. 98111, (206) 623-2314.
Mycological Society, Oregon, 6548 SE 30th, Portland, Or. 97202. (For other NW mushroom clubs, see Sunset, Oct. 74.)
National Speleological Society, 13402 NE Clark Rd., Vancouver, Wn. 98665.
Nature Conservancy, 1234 NW 25th, Portland, Or. 97210.
Nature Conservancy, Island Empire Chapter, Route 1, Box 269, Pullman, Wn. 99163.
Natural Resources Law Institute, 10015 SW Terwilliger Blvd., Portland, Or. 97219, 244-6161 x 545.
North Cascades Conservation Council, P.O. Box 156, University Station, Seattle, Wn. 98105.
*Northern Plains Resource Council, 421 Stapleton Bldg., Billings, Montana 59101.
Northwest Environmental Defense Center, 10015 SW Terwilliger, Portland, Or. 97201.
Northwest Fund for the Environment, 222 2nd Ave., Seattle, Wn. 98104.
Northwest Regional Foundation, P.O. Box 5296, Spokane, Wn. 99205.
N.W. Steelheaders Council, Trout Unlimited, 3226 N Lombard, Portland, Or. 97217.
Olympia Conservation Council, P.O. Box 402, Roche Harbor, Wn. 98259.
Open N.W. Information Network, P.O. Box 5599, Seattle, Wn. 98105.
Oregon Bass & Panfish Club, P.O. Box 1021, Portland, Or. 97207.
February 1975

*Oregon Environmental Council, 2637 SW Water, Portland, Or. 97201.
Oregon Inventory Project, 1234 NW 25th, Portland, Or. 97210.
Oregon League of Environmental Voters, P.O. Box 42105, Portland, Or. 97242.
Oregon: Population Target, 14302 SW Pacific Hwy., Portland, Or. 97223.
*Oregon Wilderness Coalition, 1312 Mill St. #1, Eugene, Or. 97401.
Oregon Wildlife Federation, P.O. Box 12438, Portland, Or. 97212.
Montana Science for Public Interest, University of Montana, Missoula, Montana.
Oregon Roadside Council, P.O. Box 1557, Portland, Or. 97207.
Oregon Shores Conservation Coalition, P.O. Box 438, Portland, Or. 97207,
222-1963.
Oregon Wildlife Federation, 589 Locust St. NE, Salem, Or. 97303.
Pacific N.W. Seed Bank, 1155 NE 7th, Corvallis, Or. 97330.
People for Energy and Environmental Responsibility, Star Rt. 1, Box 174,
LaCom, Or. 97354.
*Planned Parenthood, 1200 SE Morrison, Portland, Or. 97214, 234-5411.
Preservation of Urban & Rural Environment, 718 E 8th, Bend, Or. 97701.
Population Research Center, 188 Cramer Hall, Portland State U., Portland, Or.
97207.
Population Study Center, Battelle Seattle Research Center, 400 NE
41st St., Seattle, Wa. 98105.
*Rural Resources and Information, P.O. Box 53, Springfield, Wa. 99773.
Save Skagit Bay, Route 1, La Conner, Wa. 98257.
Save Our Sound, 2314 Pacific St., Bel­
lingham, Wa. 98225.
Save Spring Lake Comm., P.O. Box 532, Rockaway, Or. 97136.
Save the Trask, 24400 Trask River Rd., TILLAMOOK, Or. 97141.
Sea-King, Info. Referral, 1327 N 79th
St., Seattle, Wa. 98103.
*Sierra Club, Pacific N.W. Chapter,
4534-1/2 University Way NE, Seattle, Wa. 98105.
Sierra Club, Columbia Group, 2637 SW Water Ave., Portland, Or. 97201.
*SHI Community Assn., Route 1, Box 244 E, Cottage Grove, Or. 97424.
Small Towns Institute, P.O. Box 517, Ellensburg, Wa. 98926.
Steamboaters, 610 Capitol Tower, Salem, Or. 97302.
Steelheaders Council, Trout Unlimited,
3146 E 31st St., Spokane, Wa. 99203.
STOP, 405 NW 18th, Portland, Or. 97209.
Student Assn. Voters for Ecology, Central Washington State, ASC Office,
Sub, Ellensburg, Wa. 98926.

Student Conservation Inc., Rt. 1, Box
573 A, Vashon, Wa. 98070, (206)
567-4798.
Talking Leaf Assn., 3800 East Pine,
Seattle, Wa. 98122.
Tilth, Rt. 5, Box 699, Shelton, Wa.,
98584.
Transportation Coordination Commit­
tee, 3917 NE 127th St., Seattle,
Wn. 98125.
Umpqua Wilderness Defenders, P.O.
Box 15, Roseburg, Or. 97470.
Union of Young Environmentalists,
c/o Doug Biggs, 321 Ridgeway
Gamma, Bellingham, Wa. 98225.
Washington Alpine Club, P.O. Box 352,
Seattle, Wn. 98111.
*Washington Environmental Council,
107 S Main, Seattle, Wn. 98104,
623-1483.
Washington Roadside Council, P.O.
Box 217, University Station, Wn.
98105.
Washington State Sportsman Council,
650 Mt. Index Place NW, Issaquah,
Wn. 98027.
Wildlife Management Institute, 1617
NE Brazee, Portland, Or. 97234.
Idaho Wildlife Federation, P.O. Box
849, Coeur D'Alene, Idaho 83814.
Willamette River Greenway Assn., Lane
Cty. Chapter, 2865 Ferry St., Eu­
gene, Or. 97045.
Willamette River Greenway Assn.,
2300 Georgia Pacific Bldg., Portland,
Or. 97204.
Zero Population Growth, 4080 Fabian
Way, Palo Alto, Ca. 94303 (write for
local contacts).

BUSINESS, INDUSTRIAL, PROFESSIONAL

American Chemical Society, University
of Portland, 5000 NW Willamette Blvd.,
Portland, Or. 97203.
American Forest Institute, 9711 SW
Corbett St., Portland, Or. 97219.
American Institute of Architects, Portland
Chapter, 200 Dekum Bldg.,
Portland, Or. 97204.
American Institute of Industrial Engineers, 10470 NE Lee St., Portland,
Or. 97229, 292-2181.
American Institute of Planners, Mid­
Willamette Valley Council, Rm. 305,
Civic Center, Salem, Or. 97301.
American Society of Landscape Archi­
ette, 200 Dekum Bldg., Portland,
Or. 97204.
American Society of Landscape Archi­
ette, Pacific N.W. Chapter, 4320 Barbara
Lane, Missoula, Mont. 59801.
Associated Oregon Industries, 2187 SW
Main, Portland, Or. 97201.
Committee for a Livable Oregon, Public
Service Bldg., 920 SW 6th Ave.,
Portland, Or. 97204, 226-7411.

Environmental Science Service Ad­
ministration, 5420 NE Marine Drive,
Portland, Or. 97218, 255-6660.
Environmental Quality, Portland Cham­
ber of Commerce, 824 SW 5th,
Portland, Or. 97204.
Environmental Resources, Weyerhauser
Company, Tacoma, Wa. 98401.
Industrial Forestry Assn., 1220 SW
Columbia, Portland, Or. 97201.
Keep Oregon Livable, 220 SW Morrison
Box 26, Portland, Or. 97204.
N.W. Public Power Assn., 113 W 1st St.,
Vancouver, Wn. 98660.
Portland General Electric, Environ­
mental Services, 621 SW Alder,
Portland, Or. 97205, 228-7181.
Society of American Foresters, Colum­
bia River Section, Box 1148, Cor­
vallis, Or. 97330.
Soil Conservation Society of America, In­
land Empire Chapter, Pullman,
Wn. 99163.
Soil Conservation Society of America, Rm. 345, 304 N 8th St., Boise,
Idaho, 83702.
Soil Conservation Society of America, Olympic View Chapter, 1031 Cas­
cade Ave., P.O. Box 671, Chehalis,
Wn. 98532.
Stop Oregon Litter and Vandalism, 824
SW 5th Ave., Portland, Or. 97220.
Trojan Nuclear Plant Information Cen­
ter, Rt. 2, Box 120, Rainier, Or.
97048.
Western Chem. Nuclear Services, 1750
SW Skyline Blvd., Portland, Or.
97221.
Western Environmental Trade Assn.,
100 SW Market, Room 610, Port­
land, Or. 97201.
Western Forestry Center, 4033 SW Can­
yon Rd., Portland, Or. 97221.
Western Forestry and Conservation
Association, 1326 American Bank
Bldg., Portland, Or. 97205.
Western Wood Products Assn., 1500
Yeon Building, Portland, Or. 97204.
224-3930.

EDUCATION

Adams High School, Eco Action, 5700
NE 39th, Portland, Or. 97212, 288-
7211.
Alternative Energy Sources Program,
Oregon Museum of Science & In­
dustry, 4015 SW Canyon Rd., Port­
land, Or. 97221.
Apocalypse Reconstruction Founda­
tion, 5265 NE 73rd, Portland, Or.
97218.
Applied Environmental Studies, Ever­
green State College, Olympia, Wn.
98505, (206) 866-6604.

continued next page
Energy and Man’s Environment, P.O. Box 200, Beaverton, Or. 97005, 649-0443.

Environmental Education Center, Portland State University, Portland, Or. 97207.

Environmental Sciences Dept., Portland State University, P.O. Box 751, Portland, Or. 97207.

Environmental Education Program, Dave Kenedy, Old Capitol Bldg., Olympia, Wn. 98504

Dept. of Environmental Science, Clackamas Community College, 19600 S Molalla Ave., Oregon City, Or. 97045.

Environmental Studies Center, 636 PLC, Eugene, Or. 97403.

Environmental Studies Center, University of Oregon, Eugene, Or. 97403, 686-3516.

Director of Environmental Studies, University of Montana, Missoula, Mt. 59801.

Environmental Studies Center, Washington State University, Pullman, Wn. 99163.

Environmental Systems Project, Evergreen State College, Olympia, Wn. 98505.

Experimental College, University of Washington, Hub Bldg., Rm 203, Seattle, Wn. 98195.

Falls Creek Project, P.O. Box 1504, Missoula, Mt. 59801.

Farmscapes Workshop, Rt. 1, Box 501, Junction City, Or. 97448.

Mr. Ernest McDonald, Forest Service, P.O. Box 3623, Portland, Or. 97208, 226-3361 x. 2131.

Forestry Department, Oregon State University, Corvallis, Or. 97331.

Huxley Environmental Reference Bureau, Western Washington State College, Huxley College, Bellingham, Wn. 98225.

Institute for Environmental Studies, University of Washington, 112 Sieg Hall, FR-40, Seattle, Wn. 98195.

Institute for Alternate Futures, 2376 E Walker Valley Rd., Mt. Vernon, Wn. 98273.

Malheur Environmental Field Station, P.O. Box 989, Burns, Or. 97720.

Marine Science Center, Oregon State University, South Beach, Or. 97366, 867-3011.

Multnomah County Outdoor Education, P.O. Box 16657, Portland, Or. 97216.

Ms. Mary Lewis, Oregon Board of Education, 942 Lancaster Dr. NE, Salem, Or. 97310.

Living Learning Program, Southern Oregon College, Ashland, Or. 97520.


Oregon Assn. of Outdoor Education, 6301 SE 14th, Portland, Or. 97204.

Oregon Herb Society, 6825 SW Capitol Hwy., Portland, Or. 97219.

Oregon Mycological Society, 6548 SE 30th, Portland, Or. 97202.

Outdoor Education Project, Central Elementary School, La Grande, Or. 97850.

Outdoor Education Project, Central Elementary School, La Grande, Or. 97850.


Ragged Ridge Environmental Center, Whitworth College, Spokane, Wn. 99218.

Regional Studies Center, College of Idaho, Caldwell, Idaho 83605.

Western Natural History Institute, 1234 NW 25th, Portland, Or. 97210.

*Also have newsletters.

Beverage Container Control Coalition, 4534-1/2 University Way NE, Seattle, Wn. 98105

OSPIRG, 408 SW 2nd, Portland, Or. 97204.

*Page 23 for list of state offices.
The following is a listing of magazines in the Northwest that are, or show interest in, environmental issues and information. We would like to extend this list to include environmental writers for the major newspapers; and eventually TV/radio contacts; and to enlarge the list to include all newspapers/newsletterers, etc., published in the Northwest— which then can be used as a base for an environmental news service; and will be published in the RAIN catalog.

### NORTHWEST MEDIA GUIDE

**Edcentric.** P.O. Box 10085, Eugene, Or. 97401. $6 individual. Radical education, some environmental reports. **Environmental Law.** 10015 SW Terwiliger Blvd., Portland, Or. 97219. National. $8/yr. 3 issues. **Forest Log.** State of Oregon, Dept. of Forestry, 2600 State St., Salem, Or. 97310. Free. News of state forests, forestry in general.

**BLM Clips.** U.S. Dept. of the Interior, Bureau of Land Management, Oregon State Office, P.O. Box 2965, Portland, Or. 97208. Free. Watch for geothermal development.

**Capitol Memo.** Legislative Advocates, 180 Commercial NE, Salem, Or. 97301. $36/yr. Reports on Oregon State government hearings, committees, reports.

**Dead Mountain Echo.** P.O. Box 467, Oakridge, Or. 97463. Weekly, $4/yr.

**Earthwatch Oregon.** 2637 SW Water Ave., Portland, Or. 97201. With $10 membership ($5 student & over 65) especially legal, protection, and citizen action.

**Geological Newsletter.** Geological Society of Oregon, P.O. Box 8579, Portland, Or. 97207.

**High Country News.** Box K, Lander, Wyo. 82520.

**Northwest Experience.** P.O. Box 8187, Moscow, Idaho 83843. $4.50/yr.

**Northwest Magazine, Oregonian.** 1320 SW Broadway, Portland, Or. 97201. Outdoor living, sometimes environment.

**Oceanography Student Newsletter.** Marine Science, Seaside High School, 1901 N. Holladay Drive, Seaside, Or. 97138.

**Northwest Passage.** P.O. Box 105, Bellingham, Wn. 98225


**Oregon Science Teacher.** 4015 SW Canyon Rd., Portland, Or. 97221.

**Oregon Times.** 1000 SW 3rd, Portland, Or. 97204. $7/yr. Investigative journalism, good energy/environment information.

**Oregon Washington Farmers Union.** Willamette Bldg., Suite 35, 215 Front St. NE, Salem, Or. $1/yr. Agriculture, small farms, energy.

**Oregon Wilderness Coalition.** 1312 Mill St. #1, Eugene, Or. 97401. $3/yr. An exhaustive wilderness events calendar.

**Oregon Wildlife.** Ore. Wildlife Commission, P.O. Box 3503, Portland, Or. 97208. Free.

**Pacific Search.** 715 Harrison St., Seattle, Wn. 98109. (206) 682-5044.

**Pacific Wildlife Journal.** 2022 SE Rex, Portland, Or. 97202.


**Pilot Rock.** 27-1/2 N Main St., Ashland, Or. 97520. (503) 482-1219. Bi-weekly. $2/yr.

**Planet Drum.** P.O. Box 140, La Conner, Wn. 98257. Pacific Rim consciousness. $10 membership.

**Portland Magazine.** 824 SW 5th Ave., Portland, Or. 97204. Chamber of Commerce.

**Washington Environmental Council Newsletter.** 107 S Main, Seattle, Wn. 98104.

**Willamette Valley Observer.** 454 Willamette St., Eugene, Or. 97401.

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**POSITIONS - SITUATIONS**

Used JVC 6410, battery powered, with camera. EJJA type one. $1,100. Also used Concord cameras, 25 mm lens, as is, need vidacos, $100 each. Call Jim Schiller (503) 644-8022.

Active in video playback theater, Ken Boettcher is looking for people to exchange video tapes with. Instructional Technology Center, Southern Oregon College, Ashland, Or. 97520. 503-482-6393.

**Alternative Energy Resources Organization**

**418 Stapleton Bldg.** Billings, Mt. 59101

406-248-1154

Establishment of a resource pool of materials and skills being actively pursued. Would like to hear from people with skills and materials, in area of alternative sources of energy.
Feb. 6, 13 People's Law School, Portland Classes. Feb. 6, introduction to courts and lawyers; 13, small claims court; 20 & 27, landlord tenant law. 224-4086 for details.

Feb. 7-9 Toadskin Film Video Event. $1 entry fee. Jan. 15th deadline. Filmmakers Cinematheque, 107 Cross Place, Eugene, Or. 97402. 342-7806.

Feb. 11 Citizen Lobbyist Workshop. 7:30-9:30 pm. Presbyterian Church, 1624 N.E. Hancock, Portland. Sponsored by coalition of environment and consumer groups.


Feb. 17 AMAX Aluminum Plant Hearing. To decide if the Astoria-Warrenton area is a special problems area. Bonneville Power Administration Building Auditorium, Portland, 9 am.


Feb. 22 Abundant Life Seeds. Forest Glenn Roth will talk about seeds and the seeds he grows and sells. At the Environmental Education Center. Write to Forest at P.O. Box 30018, Seattle, Wn. 98103.

Apr. 17 Food Day, like “Earth Week.” Sponsored by Science in the Public Interest and others, 1779 Church St. N.W., Washington, D.C. 20036.

Apr. 20-26 Earth Week, 1975. For contact with National Affiliation of Environmental Education groups participating, contact Alan Freeman, American Alliance for Health Physical Ed. and Recreation, 1201 16th St., N.W., Washington, D.C. 20036.