RAIN: Journal of Appropriate Technologies

1-1-1975

Rain Monthly Newsletter of ECO NET

ECO-NET

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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.

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.)

1975 RAIN Catalog

We need an index and update to RAIN, so we decided we will cut up old RAINs. We will send out entries, addresses, etc., and ask people to update/correct the information, and to tell us what key words they want.

We have long thought we would like to know our readers, so we will print up a reader enquiry card, and hope you will fill it out.

Then we've got other compilations: the "Rough Drafts," the Energy Center Bibliographies, an Urban Agriculture Directory, a N.W. Media Guide—so of course, why not do it all under one cover.

It can also be an update to Chinook Centrex, or more regional and national. The basic component will be a compilation of RAIN entries, indexed. Beyond that, it’s up to you and us.

Send us information about yourselves, or others, or needs, or books. People sending in information we use will receive a free copy (unless it’s just information about their own project).

The catalog could provide more in-depth information, lots of How to Survive, and . . .

We expect to send out cut-up RAINs by February; the catalog will be published like in April. But we are waiting for your feedback.
**January, 1975**

**AGRICULTURE FOOD**

American Association of Nurserymen Inc.
230 Southern Bldg.
15th and H Streets, N.W.
Washington, D.C. 20005

General education publications as well as detailed nursery landscape information. Energy conservation through planing shade. Nice free brochure on energy conservation called "It Depends on You." Ask for publications list.

Emerald Dairy Goat Association
Findrack Station
Rt. 1, Box 501
High Pass Road
Junction City, Ore. 97448

Newsletter, with articles, commercial ads and classifieds from dairy goat raisers in Oregon. $3/yr subscription.

Council for Agriculture, Science & Technology
Astronomy Department
Iowa State University
Ames, Iowa 50010
515-294-2036

Many published reports, including "Energy and Agriculture," submitted to Congress Nov. 26, 1973; also a valuable "Directory of Environmental Scientists in Agriculture," Nov. 1972 ($3). Also publish a newsletter reporting on developments in technology, science and agriculture.

Corporate Secrecy: Agribusiness
U.S. Government Printing Office
Washington, D.C. 20402
Stock No. 5270-0178, $2.25
(or GPO bookstore)

Hearings before the Subcommittee on Monopoly of the Select Committee on Small Business, U.S. Senate. A 500-page report. Testimony, newspaper clippings, studies, articles.

Index to Groups and Individuals
Interested in Food Production and Farming (Wa., Or., Ida., B. Columbia)
OPEN, N.W. Network
Box 692
Port Townsend, Wn. 98368

Fifty cents and a large self-stamped envelope. Over 100 producers and interested exchangers. Along with the as yet unfinished Agricultural Conference Director, makes a large information base for alternative forms of agriculture in the Northwest. (See also Jaybird, under Agriculture)

Jaybird Information
P.O. Box 554
Republic, Wn. 99166

A listing of people involved in marketing sessions, Agricultural Conference. Over 200, includes some people not at conference. Co-ops, organic farmers, warehouses, trucks. Send donation AND be two-way about it.

Homesteading Class
Antioch College West
Rt. 1, Box 28A
Winters, Ca. 95694

80-acre organic farm; students farm some hours, other times take classes in alternative energy, soil analysis, pest management.

Michael Dillon of Athens, Georgia, has a 27-foot tower which holds 230 tomato plants, which he figures provides the equivalent of 175 feet of conventional row space. A 10-foot tower produced 1230 pounds of tomatoes in 1971. The tower is filled with compost, etc. and has a water/nutrient system in the core.

“Acres, U.S.A. — a voice for Eco-Agriculture
10227 East 61st St.
Raytown, Missouri 64133

$5.50 a year. Research and news, some politics, even pyramid power. Lots of how-to things.

Forestry as Agriculture
Source/Bibliography
Oregon has several tax options which lower running yearly taxes in favor of a higher harvest tax. We just got "reforestation" or "Fee (yearly) and Yield (harvest)" classification, which means we pay 10 cents/acre — for the trees that are on it, no matter how much or little they're worth. When we cut them we will have to pay 12 1/2% to the State. The land itself is also subject to tax, but apparently it is exempt from school taxes.

John H. Cejka, the farmer-scientist interviewed in Acres U.S.A. last month, is telling farmers to till the soil this fall. Come spring there may not be time. Reason — heavy rains, very wet weeks in many areas. Cejka's firm, Cyclomatic Engineering, P.O. Box 382, Glenview, Illinois 60025, pinpoints super-wet areas.

Organic Waste. A report by the Bureau of Mines in 1970 stated "A significant part of the energy demand of the nation can be obtained by converting nearly every kind of organic solid waste to a low-sulfur oil." A refuse plant at Rosenheim, Germany serves 14 towns. Paris turns 1.6 million tons of refuse annually into steam to produce power. Other European cities are doing the same. Fertilizer from waste would be better. Energy rates better than landfills.

ACRES U.S.A.
Oregon Historical Society

General Readings

Where to Get
Pacific Bamboo Gardens, 4754 Vista Laci, San Diego, California 92116

Solar Heated Buildings: A Brief Survey
Dr. William A. Shurcliff
Solar Energy Digest
P.O. Box 17776
San Diego, Ca. 92117
Fifth edition. Data on 68 houses, schools and commercial buildings. (*High Country News*)

His (Baladasre Forestiere) main tools were hand tools, a pick, a shovel and a wheelbarrow; a horse and a small scraper were used to move large rocks. He dug over 90 rooms, passages and courts, each with an open hole to the surface for light and water, and each with a fruit tree immediately below. He dug most of the rooms ten feet below the surface, a small lower level 23 feet below, and another few rooms 35 feet below the surface.

His big dream was a restaurant...

(Rhaps Weekly)

NAHB Research Foundation, Inc.
P.O. Box 1627
Rockville, Maryland 20850
301-762-4200
The National Association of home builders. They publish a very good manual, the "Insulation Manual"—homes, apartments. $4, with locations, amounts, techniques, design and operating cost data for 561 communities. Also from them: "Manual of Lumber and Plywood Saving Techniques," for residential light frame construction. Various options in allowable support load factors. $3.50.

Soil Cement: Its Use in Buildings
Available from:
United Nations, Sales Section
New York, N.Y. 10017
Information regarding types of soils used used, lengthy instructional data, models, results of experiments.
Portland Community Design Center
723 S.E. Grand Ave.
Portland, Or. 97214
503-232-4221
Community oriented resource center providing free services in architecture, planning and community development to neighborhood groups and low income individuals who otherwise could not afford such services. Having worked with various community projects including Eliot Neighborhood Model Block, Sunnyside Neighborhood, Children’s playground design, N. Portland Neighborhood, Community Center remodeling... . . .

See also: Energy, Weather.

Audio Visual

Oregon Filmmakers: November 1974 issue of Film Library News. 6-page rundown of some films about Oregon. Also audio tapes, available by loan from:
Oregon Division of Continuing Education
1635 S.W. Park Ave.
P.O. Box 1491
Portland, Or. 97207

Midwest Video News
widl video
5875 N. Lincoln
Chicago, Ill. 60659
Especially for midwest, but also national source material too. $4/yr. Write for sample or exchange.

Challenge for Change Newsletter
National Film Board of Canada
P.O. Box 6100
Montreal 101, Quebec
Reports on activities; special issues, good access. Social Animation through media.

Videomaker, Appalachia’s Living Newsletter
Broadside TV
204 E. Watauga
Johnson City, Tenn. 37601
A catalogue of videotapes for purchase or exchange. Tapes on “The Wobblies,” “Jesse Stuart,” “on living and learning, “The Union Struggle” “Black Midwife and Nurse”—Aunt Minnie Conley of Carter County is 96 years old and talks of her service to the mountain community delivering babies and offering other health services, “Moonshine Making.” Broadside TV also offers a supplemental tape list for use in school curriculums—a series on environmental education, know your city, and general interest... . . . (B.P. C.A.)

Speakers’ Bureau
Portland Community College
12000 S.W. 49th Ave.
Portland, Or. 97219
A brochure available describing the range of topics/speakers. PCC faculty, available for speaking engagements, no charge unless long distance.

Community Video Report
c/o Community Video Center
P.O. Box 21068
Washington, D.C. 20009
$4/4 issues if community, $12 if institution. (Randy Skoog)

Bulletin for Film and Video Information
Anthology Film Archives
80 Wooster St.
New York, N.Y. 10012
Callie Angell and Hollis Melton, eds. 2$/yr., bi-monthly. A what’s happening for film and video people. Traveling artists’ itineraries, grant information, reprints of articles from other publications, show show places, catalogues... . . . (B.P., C.A.)

COMMUNITY

National Conference on Urban Environment
Contact:
Mr. Wayne Schimpff
Open Lands Project
53 W. Jackson Blvd.
Chicago, Ill. 60604
To be held in March. Forums being held prior to gain national input. For information on the national conference, Mr. Albert Hopkins, National Conference on the Urban Environment, 1028 Connecticut Ave., N.W., #407, Washington, D.C. 20036.

Community Garden Fact Sheet
Emmaus Garden and Farming
Emmaus, Pa. 18049
Also Dec. 1974 article on a dozen or so community gardens around the country. Free.
See also: Audio-visual, Futures, Media.

Computers

The Tom Shift Terminal or A Convivial Cybernetic Device
Write to:
LGC Engineering
1807 Delaware St.
Berkeley, Ca. 94703
For information (a 50-page paper) on modification of Don Lancaster’s TV Typewriter.

Education

Environmental Education
Science Education News
American Asn. for Advancement of Science
1515 Massachusetts Ave., N.W.
Washington, D.C. 20005
November 1974 issue reports on several environmental education councils and centers, including the EEC.

continued next page
They have salvaged a barge and are creating a living learning center to eventually travel around the biodegradable waste, food growing, etc.

Cispus Environmental Learning Center
Seattle, Wn. 98195

ENERGY

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

They have salvaged a barge and are creating a living learning center to eventually travel around the biodegradable waste, food growing, etc.

The Port of Tacoma will be shipping 2.5 million gallons of manure each month to the Arab countries Buhrain and Dubai, for use in a billion dollar desert reclamation project. (Ore. State Energy Conservation Newsletter)
A daily load curve for an electric range. (Source: Federal Power Commission)

On Energy—On Site Magazine. $6.95
60 Greene Street
New York, N.Y. 10012

A collection of photos and articles on energy, energy and civilization, René Dubois, Architectural Prospects, Richard Stein, Autorama, Chip Lord & Ant Farm Farm, People in Glass Houses, Witold Rybeyneki, Washington Monument as a Sundial, Yuri Schwebler. Selection follows:

As we mine ever poorer grades of ore approaching the crustal abundance of these elements, we must provide an energy subsidy from fossil fuels that geologic processes provided for us in the past. It requires energy to go from a high entropy, dispersed state (crustal abundance) to a low entropy, concentrated state (ore). To that extent the human substitution of an energy subsidy for one of nature's is a key to rising inflation. (James Mellett)

If we focus our attention on solar energy, plant growth and manpower, we shall find that all our basic energy needs are available in abundance, not only kinetic energy for current supplies, but potential energy stored in living cells and organs, in plant fibers, wood, fossil fuels, bodily reserves of fat and sugar, muscular structures, and finally etherized in subjective superorganic form in the tissues of the human brain. (Lewis Mumford)

The unit of measure now being used by some sophisticated whole system thinkers is sometimes called the "eco-dollar." The eco-dollar can be used to measure the true cost of electricity purchased from Con Ed by including the health and cleaning costs of pollution in the calculated sum. The eco-dollar can be used to measure the loss of a species of wild bird in terms of the resultant simplification of the overall system when we lose that bird's concentration of information in its gene pool. And the eco-dollar can be used to measure the social worth of a novel in terms of the media's concentration of information it brings into the social system.

See also: Games, Groups, Media, Networks, Recycling, Whole Systems.

FUTURES

Earthrise
P.O. Box 120
Annex Station
Providence, R.I. 02901
401-274-0011

Futures research, education and design. Occasional publications. Futures Lab— an ongoing study, with credit at the University Without Walls; global futures game. An attractive newsletter; reviewing futures study around the country. Student $3, Individual $5, Institution $10, Memberships $6, $10, and $20.

Goals for Seattle
City of Seattle
Seattle Municipal Bldg.
Seattle, Wn. 98104
400-page comprehensive plan for Seattle.

GAMES

Simulation Learning Institute
P.O. Box 637
Huntington, New York 11743

They offer a nuclear energy game (we haven't seen it). Write for details, other projects/games.
Groups/Assns

National Council for Public Assessment of Technology
1714 Massachusetts Ave., N.W.
Washington, D.C. 20036

Started by Byron Kennard, who also helped develop the Public Interest Economics Center—same address. Providing a forum for public participation in governmental discussions about technological growth

Uni-versing Center
1520 S.E. 37th
Portland, Or. 97214
Michael SunU, director
On the moment positive feedback from the group for helpful thoughts. Ongoing brainstorming, reporting and recording on eco-issues and new education experiences. We explore how much energy is gained by making certain changes in design and function in a system of society. Reprints and condensations and original copies are part of handouts and free media and communication networks, body healing. Massage and yoga lessons. Questions, relevant info and donations wanted. (Lili Everbee, Universing Center)

Northwest Regional Foundation
P.O. Box 5296
Spokane, Wn. 99205

Robert Stilger, director of program development, Expo '74; Robert Theobald (with probability of "Futures Conditional" moving to Spokane); Edward Lindaman (pres. Whitworth College); Mr. Bob Baily, and Mrs. Lorna Ream, incorporators.

Formative stages. Hoping to be involved in citizen participation through bi-centennial and the U.N. Habitat conference (June 1975, Vancouver, B.C.). Write for more details on the foundation's goals.

Information

The Connection
P.O. Box 224
Ojai, Ca. 93023

A catalog of hundreds of items, survival oriented. Available for subscribers at special discount prices. Prices average, some above and some below others I’ve seen. Impressive range of stuff. (Catalog itself, available in bookstores, is $4.) They also publish the New Journal ($6/yr.), and provide services connections. Write for details.

Bibliography of Data Describing Social, Economic and Environmental Conditions of the Spokane Metropolitan Area

Produced by the Spokane Regional Planning Conference, transportation study division, City of Spokane. Lists publications of Wash. State Dept. of Ecology, urban planning reports, geology, water, air, pollution reports, census. Mostly Spokane Basin interest

Environmental Problem Solving—a Process Manual

Union of Young Environmentalists
University of Wisconsin—Green Bay
Green Bay, Wis. 54302

A 64-page nicely done booklet providing elementary information on areas such as research, grants, clarification skills, use of flow charts, graphics, matrices. Developed out of a workshop summer of 1974. (no price on our copy)

Forest Park Committee of Fifty
Garrett E. Cannon, Chairman
4470 S.W. Greenleaf Drive
Portland, Or.
227-2069

Annual meeting held, with presentation of plan for management of Portland's 6,000-acre wilderness park.

University of Idaho
College of Law
Moscow, Idaho 83843
/c/o David Risley & Ellen Spano

Volunteer basis. Legal research for environmental issues.

Washington Environmental Council
107 S. Main
Seattle, Wn. 98104
623-1483

State-wide legislative action group.

Newsletter. Write for details.

Task Force Against Nuclear Pollution
153 E St., S.E.
Washington, D.C. 20003

Petition drive underway to include a nuclear power moratorium as amendment to the nuclear budget bill next spring. Write for details, newsletter, petition.

The Servant as Leader
Center for Applied Studies
17 Dunster Street
Cambridge, Ma. 12138

Single copies $12.50. Three other titles in series. The idea comes from Herman Hesse's Journey to the East, where Leo, the servant to a band of men on a mythical journey, disappears and the band falls into disarray, revealing Leo as a leader.

The Whole COSMEP Catalog
Dust Books
5218 Scotwood Rd.
Paradise, Ca. 95969

Catalog of shoestring publishers in audience directed layout (each publisher cited laid out own page). This is a compilation of people who belong to the Committee of Small Editors and Publishers, Inc. Alone with Alternatives in Print, provides a large peek into publishing/distributing on the cottage/community level.

Science for Society
Commission on Science Education
American Assn. for Advancement of Science
1776 Massachusetts Ave., N.W.
Washington, D.C. 20036

An extensive (110 pp.) bibliography, for secondary and college students and teachers, and lay groups. Includes newspapers, magazine references; very few references earlier than 1971. (no price)

City of Portland, Information
1220 S.W. 5th Ave.
Portland, Or. 97204
503-248-4583

New copies of City Services (breakdown by problem area) partially reproduced in RAIN No. 2, is available again. Also City Government, How It Works, a brief description; a useful departmental breakdown; a summary of budget pamphlets available.

The Lives of a Cell. Lewis Thomas.
Viking Press.

Lewis Thomas is director of the Memorial Sloan-Kettering Cancer Center, where unusual nutritional research takes place, involving the use of Laetrile (vitamin B-17). The book is about exchanging information as the goal of life.
January, 1975

Recycling Information Office
1234 S.W. Morrison
Portland, Or. 97205
229-3115

A large new poster (23" by 23") available for 25¢. For organizations and schools to post.

LAND USE

Oregon Coastal Conservation and Development Commission
P.O. Box 34
Florence, Or. 97439
503-997-8248

Information about Coastal resources in 14 different reports. Coastal wetlands, continental shelf, planning, economic analysis, historical and archaeological resources, others. They are attempting to make the reports available. Prices not set—somewhere between $2 and $4. Write for details.

Get Involved: Some Groups To Do It With

Across the country, a great number of organizations are involved in various aspects of the land reform movement. Here's a partial list. Get in touch with a group near you and pitch in!

Agricultural Accountability Project, 1000 McLean Ave., N.W., Washington, D.C. 20009
Allianca Popular de Pueblos Libres, 3751 13th St., NW
Albuquerque, N.Mex. 87105
Americans for Indian Opportunity, 1346 Connecticut Ave., N.W., Washington, D.C. 20036
Center for Community Economic Development, 1210 Pennsylvania Ave., N.W., Washington, D.C. 20004
Center for the Biology of Natural Communities, 1717 Massachusetts Ave., Cambridge, Mass. 02138
Coastal Wetlands, National Audubon Society, 650 3rd Ave., New York, N.Y. 10017
Cut Cane Associates, 1113 15th St., N.W., Washington, D.C. 20036
Cooperative League of the South, 511 S. Wabash, Chicago, Ill. 60603
Community to Concerned Citizens, 1363 P.O. Box 1731, Winlock, Wash. 98596

The C.U.E. Media Guide will be continued, but we were short on space. If you desire an entire guide, write to us or C.U.E.

Community Communications Center
Rt. 1, Box 778
Winlock, Wa. 98596

Formative stages. Proposing a multi-purpose facility, offset printshop, dark room, audio tape production studios...

MEDIA

Ruralite
P.O. Box 1731
Portland, Or. 97207

This 40-page newsmagazine goes out for $1.32 a year to members of many rural power companies. There's inspirational and heart-warming stories, recipes, good classified ads, some soft electrical sell. $2.00 for outsiders. 25¢ a copy.

NETWORKS

“Watergate is a great compared to the Bell System” - Southwestern Bell of Texas Vice President, T.O. Gravitt in a suicide note, found after his death by carbon monoxide poisoning. (Daily Olympian)

The Knowledge and Skills Exchange
203 Jefferson Blvd.
Iowa City, Iowa 52242
319-253-3610

People learning, teaching, sharing skills ranging from accounting to flying and zen. Newsletter for 9 months (Free Lemonade) $1. (See RAIN No. 1 for learning exchange directory.)

OMSI Communication Resource Center
4015 S.W. Canyon Rd.
Portland, Or. 97221
503-248-5940

For mathematics and science educators primarily, and subscription services. Forwarding announcements, locating experts, assisting research, suggesting learning materials, convening people.

Freestyle
420 17th St. East
Seattle, Wa. 98105

Xerox newsliping and pasteup potpourri; though primarily the age of media; an anthology of blocks of words.

Library Networks 74-75
Knowledge Industry Publications, Inc
Tiffany Towers
P.O. Box 429
White Plains, N.Y. 10602
$24.50. Recent information on special library services developed, as OHIO computerized library service and others. They also publish Advanced Technology /Libraries, $36/yr.

continued next page
The Workbook
Southwest Research and Information Center
P.O. Box 4524
Albuquerque, New Mexico 87106
505-843-6537
A catalog format index to tools for learning and social change and organization. First issue has many new information resources and many pretty well known. All explained in good detail. Agriculture, health care, penology, transportation, energy, education. Monthly $7/yr., students; $10 individual; $20 institutions. Sample copy on request.

Alternative Technology Information Center
Rm. 423 UMC
University of Colorado
Boulder, Co. 80302
443-2211, ext. 6854
Preparation of information packages, research and technical assistance, seminars, public awareness programs in wind and solar power, greenhouses, hydroponics, aerobic and anaerobic waste management, integrated life support systems. Write for details.
See also: Agriculture.

OUTDOOR ED

Friends of Tryon Creek State Park
P.O. Box 493
Lake Oswego, Or. 97034
Completion of nature study center due the first of the year. More trails, horses, bicycle and pedestrian. Write to help, get newsletter, become member, etc.

Replacement of dog sleds with snowmobiles and the use of hunting rifles may have contributed substantially to the partial hearing loss of 85% of the adult Eskimo population in the Bafflin zone of northern Canada. (Canada Journal of Otolaryngology, Vol. 3, No. 2, 1974)

RECYCLING

The Ore Plan
Rich Duncan
Systems Science
Portland State U.
Portland, Or. 97207
Revised edition, December 1974, of report on this labor-intensive, neighborhood oriented recycling plan that is utilized by Sunshine Recycling in Portland.

POSITIONS-SITUATIONS

Lime Saddle
A very interesting sounding proposal dated March 30, 1974, for an alternative education network. Any one know how I can reach them? Steve Johnson, c/o EEC/RAIN.

Evel Knievel
According to the October edition of Western Aluminum News, nearly 100,000 all-aluminum cans were littered at the site of Knievel's attempted jump over Snake River Canyon. The Twin Falls, Idaho, YMCA has new tumbling and exercise equipment thanks to the $380 they received for 2,550 pounds of cans collected by volunteers. (The energy required to produce 100,000 aluminum cans is about 75,000 kilowatts-100 households for a month). (Vern Riffer, Earthwatch Oregon)

SOCIAL SERVICES

Source
P.O. Box 21066
Washington, D.C. 20009
Starting with a communications catalog in 1971, then a catalog on communities/housing, now No. 3, "Organizing for Health Care," 250 pp. of national groups, projects, resources. The only successful national People's Yellow Pages. Always out of date, but even the description of activities is worth the time/money.
Source No. 1: Communications.
Swallow Press, 1971. 120 pp. $1.75.
Source No. 2: Communities/Housing.
Swallow Press, 1972. 255 pp. $2.95.
Source No. 3: Organizing for Health Care.
Beacon Press, 1974. 250 pp. $5.95.
See also: Audio-visual, Energy.

TRANSPORTATION

Bikeway Planning and Design, a primer.
A 9-page brochure, describing alternative costs, accessories, general safety, aesthetics, design. Interesting bibliography. $1 from:
David Bainbridge
57 Slatters Court
Davis, Ca. 95616

Rolls Royce is planning to introduce a new $100,000 model in 1975. Their sales have gone up recently. Of an estimated 70,000 Rolls Royces produced since 1904, 40,000 are still running.

The Environmental Education Reporters Inc. (The EE Reporter) is seeking more input about local conferences, etc. 1621 Connecticut Ave., N.W., Washington, D.C. 20009.

Man on bicycle ranks first in efficiency among traveling animals and machines in terms of energy consumed in moving a certain distance as a function of body weight. The rate of energy consumed for a bicyclist (about .15 calories per kilometer) is approximately a fifth of that for an unaided walking man (about .75 calories per gram per kilometer). Also more efficient than salmon or dogs. (from Bicycle Technology, S.S. Wilson, Scientific American, March 1973)
January, 1975

Pegasus Publishers, Inc.
P.O. Box 121
Olympia, Wn. 98507
Update of technology developed during World War II utilizing wood, peat and coal for gasoline. Set of engineering drawings also available at $22.50. Revised edition soon to be published.

The cost of the Trans-Alaska Pipeline has increased sixfold since 1969. In 1969 the project was estimated to cost $900 million and was to be completed in 1972. Today the price tag is $5.98 billion with a completion date of 1977. *(High Country News)*

See also: Information.

**WEATHER**

Direct Solar Radiation on Various Slopes for 30 to 60 degrees north latitude.
John Buffo, Leo J. Fritschien, James L. Murphy
Pacific NW Forest & Range Exper. Station
U.S. Dept. of Agriculture
809 NE 6th
Portland, Or. 97232
503-234-3361
Tables of daily values of direct solar radiation for selected slopes, in 15 degree gradients, and isograms of hourly values of direct solar radiation in 10 degree gradients. (no price)

Washington Climate— for King, Kitsap, Mason and Pierce Counties.
College of Agriculture
Washington State University
Pullman, Washington 99163
Fifteen pages of general description of Washington weather factors. Fifty plus pages of tables, including average monthly precipitation, select locations, surface wind "roses", evapotranspiration, solar radiation, moisture content . . . *(B.W.)*

Dam across the Bering Straits
The loudest advocate is Dr. Clyde L. Cowan, Catholic University, Washington, D.C. (co-discoverer of the subatomic particle, the neutrino). Careful study has convinced him that such a dam, by stopping the icy arctic ocean currents that sweep down America's west coast would drastically alter our climate. *(Skeptic, July 1974)*

Direct Solar Radiation on Various Slopes for 45 and 47.5 degrees north latitude.
John Buffo and Leo J. Fritschien
University of Washington
Seattle, Wn. 98195
Only a preliminary report. For comment only, not ordering.

Arctic Environmental Research Laboratory
College, Alaska 99701
An associate laboratory of the National Environmental Research Center, 200 S.W. 35th St., Corvallis, Or. 97330. They investigate the unique problems of perma frost lands, and other extreme cold conditions. Reports and newsletter available.

**WHOLE SYSTEMS**

*Mankind at the Turning Point: the 2nd Report to the Club of Rome*. $12.95
E.P. Dutton
201 Park Ave., S.
New York, N.Y. 10003
Mihajlo Mesarovic and Eduard Pestel.
See also: Groups.
CALENDAR

Jan. 6  Alternative Sources of Energy. 5-week basic course. William A. Mackie, Linfield Research Institute, Linfield College, McMinnville, Or. 97128.


Jan. 11-12  Photography in Art and Science. Write to John Pratt, OCE, Monmouth, Or. 97361. 838-1220, x215.

Jan. 13  Oregon Legislature Opens.


Jan. 16  Video Exchange Information. Workshop: time and place to be announced. Call 229-5927.

Jan. 18  Solid Waste Workshop. Environmental Studies Institute. University of Wn. $3.50 registration. ($1 students)


Jan. 27  Oregon Mycological Society Meeting. Dr. Stuntz, University of Washington, speaking. 7:30 p.m. 3536 S.E. 26th, Portland.

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

Feb. 20-22  Open Encounter on Video. Establishing a base for an international festival. To be held Oct. 21 to Nov. 7th. Institute of Contemporary Arts, Ltd., Nashhouse, 12 Carlton House Terrace, London SW 1, England.

Feb. 22  New Age Agriculture Conference. Contact Mark Dworkin, P.O. Box 306, Langley, Wn. 98260.

March  National Conference on Urban Environment. (See under Community)