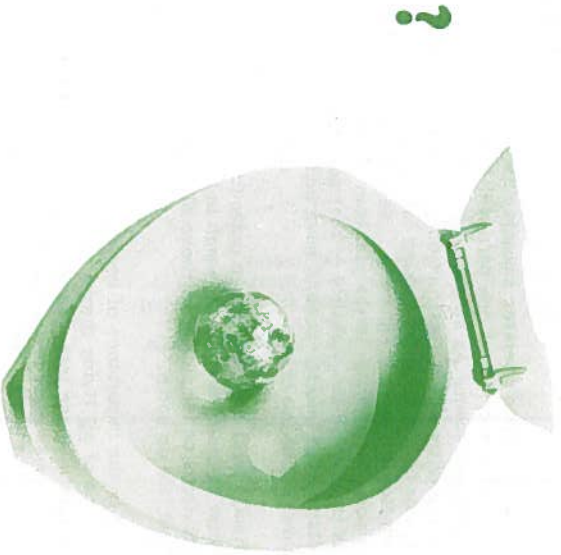


# Time Bmtd



ENVIRONMENTAL TEACH-IN

BOULDER

April 18 - 22, 1970

SCHEDULE OF EVENTS



# Environmental Bibliography

## April 22

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*Earth Household*, Gary Snyder's vision of the oneness of man and nature. New Directions.

Support your local ecosystem

APRIL 22



boulder

A campus and community effort to inform and distribute information concerning the quality of the environment . . . an attempt to initiate and support action programs to allow continued human survival. The entire Boulder community is welcome and urged to participate in all events which are free.

Saturday, April 18:  
8:00 pm

SRO Dance, UMC Ballroom

Welcome: Representative of the Office of the President, University of Colorado

Environmental Election begins.

Individual choices about the state and future of the environment.

**"The Bike Thing."** Starting riders leave from Boulder on a symbolic ride to Fort Collins, Greeley, and Denver.  
Reading of the "Declaration of Interdependence".

Entertainment: Black Pearl.

Sunday, April 19:  
All Day  
8:00 pm

Religious groups will focus on environmental matters.

Panel: **"Radiation in the Environment. What are the Hazards?"**, UMC Ballroom

Participants:

Dr. Peter Metzger, Ball Brothers Research Corp. and President, Colorado Committee on Environmental Information  
Dr. Chester R. Richmond, Medical Research Branch, Division of Biology and Medicine, Atomic Energy Commission

Monday, April 20:  
All Day

Ecology Speakers Bureau, Representatives to address junior and senior high school assemblies.

Hourly Rap Sessions: **"Ecology."**, UMC 157A

Dr. Oakleigh Thorne, II, President, Thorne Ecological Foundation, Boulder.

Speech: **"Air Pollution: Where Are We?"**, UMC 157

Glen Keller, Director, State Board of Health, State of Colorado

Panel: **"The American Dream: Affluence or Effluence?"**, Chemistry 140

Participants:

James E. Bryant, Architect, Charles Sink & Assoc., Denver  
Rabbi Lewis Bogage, Temple Michah, Denver, and Member, Board of Directors, Planned Parenthood of Colorado  
Herrick Roth, President, Colorado Labor Council, AFL - CIO, Denver  
Dick Prouty, Reporter, Denver Post, Denver  
Moderator: Sandy Cooper, Thorne Ecological Foundation

4:00 - 5:30 pm

Panel: **"Colorado: For Sale."** Auditorium, Boulder Public Library

Participants:

Julius Pickoff, Group Manager, Forward Metro Denver  
John S. Gilmore, University of Denver Research Institute, Denver.  
Scott Moore, Assistant to the President, Ideal Basic Industries, Inc., Denver.

James Johnson, Editor, Town and Country Review, Boulder.

Moderator: Constance Brown, Student, University of Colorado.

Rap Session: **"Establishing Environmental Programs at the University of Colorado."**, UMC 159

Richard R. Whitaker, Jr., Associate Professor of Architecture, University of Colorado

Dr. John Bushnell, Associate Professor of Biology, University of Colorado

Dr. Jane Bock, Assistant Professor of Biology, University of Colorado  
Dr. Wyn Owen, Professor of Economics, University of Colorado

Panel: **"Radiation in the Environment, Hazards and Benefits: Who Sets the Balance?"**, Baseline Jr. High Auditorium

Participants:

The Honorable Mark Hogan, Lt. Governor, State of Colorado  
Robert J. Catlin, Assistant Director for the Health Division of Operational Safety, Atomic Energy Commission  
Symposium: **"The Condition."**, Chemistry 140

Participants:

Dr. Adolf Busemann, Professor of Aerospace Engineering Sciences, University of Colorado  
Dr. Ronald E. West, Associate Professor of Chemical Engineering, University of Colorado  
Maury M. Travis, Vice President, Kornfield International, Denver  
Dr. Edwin Bennett, Assistant Professor of Civil Engineering, University of Colorado  
Dr. Carl Bock, Assistant Professor of Biology, University of Colorado  
Boris Tabakoff, Graduate Student, School of Pharmacy, University of Colorado  
Boyd Norton, Wilderness Society, Denver  
Moderator: Kent Palmer, Chairman, Boulder Teach-In.  
A concise presentation of the factors which contribute to the environmental crisis.

Tuesday, April 21:

7 am -  
12:00 noon

Hourly Rap Sessions: **"Ecology."**, UMC 157A

Dr. Oakleigh Thorne, II, President, Thorne Ecological Foundation, Boulder

1:00 pm  
Speech: **"Spatial Relationships Among Animals,"**  
Geology 207  
Dr. Michelle Baker, Assistant Professor of Biology, University of Colorado

1:00 pm  
Speech: **"An Art Historian Looks at the Environment,"**  
Forum Room  
Dr. John D. Hoag, Professor of Fine Arts, University of Colorado

1:00 pm  
Speech: **"Polluted Food--We Are What We Eat,"**, Hale 303  
Dr. Howard E. Bussey, Physicist, National Bureau of Standards, Boulder

2:00 - 3:30 pm  
Panel: **"Ecology and Man--Are They Compatible?"**,  
Old Main 103  
Participants:

Dr. Oakleigh Thorne, II, President, Thorne Ecological Foundation, Boulder

Dr. John Marr, Professor of Biology, University of Colorado  
Joseph Cannon, Graduate Student, Department of Chemical Engineering, University of Colorado

Dr. Paul Winston, Professor of Biology, University of Colorado

Moderator: Tom Mayberry, Thorne Ecological Foundation, Boulder  
Panel: **"Abortion - A Woman's Alternative."** Auditorium, Boulder Public Library

Sponsors:  
Women's Liberation of Boulder

2:00 pm  
Rap Session: **"The Furrier Business: Who Shall Wear the Spots?"**, UMC 157A  
Susan Van Tongeren, Representative, Sierra Club and Defenders of Wildlife, Boulder

3:30 - 5:00 pm  
Panel: **"Biocides: Delusion or Solution?"**, UMC 158  
Participants:

Dr. Donald E. Spencer, Consulting Ecologist, National Agricultural Chemicals Association

Dr. Robert Zimdahl, Assistant Professor of Botany, Colorado State University, Ft. Collins

Dr. Gordon Hoff, Extension Agent, Horticulture, Adams County

Dr. Peter Albersheim, Professor of Chemistry, University of Colorado  
Moderator: Boris Tabakoff, Pharmacy Graduate Student, University of Colorado

4:00 - 5:30 pm  
Panel: **"Radical Ecology and the Hostess Twinkie Syndrome,"** Physics 104  
Participants:

John Hillson, Executive Editor, Colorado Daily and Green Mountain News  
Dr. Estella Leopold, Palynologist, U.S. Geological Survey, Denver

Burt Wallrich, Institute for the Study of Non-violence, Golden  
Dr. Elise Boulding, Institute of Behavioral Science, University of Colorado

7:00 pm  
Moderator: Constance Brown, Student, University of Colorado  
Film: **"Myths and Parallels,"** Chemistry 140

7:00 pm  
Panel: **"Comprehensive Plan for Boulder,"**, Hellens 252  
Richard Veazy, City Planner, Boulder  
Dwayne Nuzum, Associate Professor of Architecture, University of Colorado

Carl Worthington, Carl Worthington Associates, Architect and Planner, Boulder  
Steve Williams, Professor of Law, University of Colorado

7:30 pm  
Panel: **"Adopting Children with Special Needs,"**,  
905 Lincoln Place, Boulder  
Participants:

Jerry Fries, Boulder  
Dr. Dean Plazak, Boulder  
J. Bradley Williams, Denver  
Mrs. Marietta Stevens, Boulder  
Mrs. Lani Tolman, Boulder

Sponsored by Parents for All Children  
Purpose: To encourage the adoption of special need children to further ecological alternatives to having more than two children.

8:00 pm  
Symposium: **"The Attitude,"** Chemistry 140  
Participants:

Dr. Omer Stewart, Professor of Anthropology, University of Colorado  
Dr. John Bushnell, Associate Professor of Biology, University of Colorado  
Father Harry Klockner, Dean, Regis College, Denver  
Dr. Gilbert White, Director, Institute of Behavioral Science, University of Colorado

Moderator: Sandy Cooper, Thorne Ecological Foundation  
An exploration of the historical roots of the environmental crisis and prospects for the future.

Wednesday, April 22:  
8:00 am - 8:00 pm  
Environmental Fair, UMC Ballroom

An array of exhibits provided by campus and community environmental groups.

8:00 am - 8:00 pm  
Films, Forum Room  
"Multiply and Subdue the Earth"  
"Myths and Parallels"

"House of Man: Our Changing Environment"  
"A Matter of Time"

Crossroads Mall

**"Less Than Human"**

**"Multiply and Subdue the Earth"**

Film and Art Exhibit --- Boulder Public Library

8:00 am - 8:00 pm

Eco-explorations: Ecology Walk, UMC Terrace

9:00 am - 12:00 noon

Ecologists:

Dr. Beatrice E. Willard, Vice President, Thorne Ecological Foundation, Boulder

Dr. Paul Winston, Professor of Biology, University of Colorado

Dr. Oakleigh Thorne, II, President, Thorne Ecological Foundation, Boulder

Dr. John Marr, Professor of Biology, University of Colorado

Dr. John Bushnell, Associate Professor of Biology, University of Colorado

Designers:

James E. Bryant, Architect, Charles Sink and Associates, Denver

Richard R. Whitaker, Jr., Associate Professor of Architecture, University of Colorado

Michael Pease, Assistant Professor of Architecture, University of Colorado

Charles Haertling, Architect and City Councilman, Boulder

Rego Thurmer, Architect, Environmental Design Associates, Boulder, Colorado

A walk to explore natural and built features in the Boulder area. The walk will conclude at the Central Park Environmental Rally.

12:00 noon

Lunch: Central Park Environmental Rally (Bring your own, please!)

Keynote: Mayor Robert Knecht, Boulder

Speech: **"What the Front Range MIGHT Look Like in the Year 2000."**, Auditorium, Boulder Public Library

Dr. Charles Slater, Professor of Business, University of Colorado

Lunch: Businessman's Luncheon

To be arranged by Boulder Jaycees.

Speaker: Dr. Albert Bartlett, Professor of Physics, University of Colorado

1:00 pm

Film: **"Noise: The New Pollutant."**, UMC 424

Speech and Slide Presentation: **"Polluted Streams as Biological Systems."**, Hale 302

Dr. Robert Pennak, Professor of Biology, University of Colorado

Speech and Slide Presentation: **"Population Ecology."**, New Business School 208

1:00 pm

Dr. Horace Quick, Associate Professor of Geography, University of Colorado

1:00 pm

Slide Presentation: **"Smoke, Sludge and Beer Cans."**, Forum Room

Dr. R. Curtis Johnson, Chairman, Department of Chemical Engineering, University of Colorado

Dr. Robert Ayre, Chairman, Department of Civil Engineering, University of Colorado

1:00 pm - 2:00 pm

Panel: **"Forest Fire Protection Along the Urbanized Front Range."**, New Business Building 251

Participants:

Oscar Shmunk, Deputy State Forester, Fort Collins

R. Terry Beeson, State District Forester, Colorado

2:00 - 3:30 pm

Panel: **"Law and the Environment."**, New Business Bldg. 251

Participants:

Frank Morrison, Attorney, Holland and Hart, Denver

Don Carmichael, Associate Professor of Law, University of Colorado

H. Anthony Ruckel, Attorney, Denver

H. Stanley Dempsey, Western Division Attorney, American Metal Climax, Inc., Golden

Moderator: Frank Flavin, Law Student, University of Colorado

2:00 - 3:30 pm

Panel: **"The Need for Environmental Education Programs."**

Hale 103

Participants:

William Featherstone, Environmental Education Specialist, National Park Service, Denver

Con Tolman, Director and Naturalist, Balarat Environmental Studies Center, Denver

Dr. Eugene Haas, Professor of Sociology, University of Colorado

Dorothy Curtis, Associate Director, Environmental Studies Program, Earth Science Curriculum Project, Boulder

Moderator: Sandy Cooper, Thorne Ecological Foundation

2:00 - 3:30 pm

Slide Presentation: **"The Colorado Front Range Corridor."**, UMC 158A

Sponsored by Colorado State Planning Office

James Miles, State Planning Director

Richard Brown, State Planning Administrator

Panel: **"The Transportation Mess."**, UMC 157

Participants:

John Macinko, Director, Language Laboratory, University of Colorado

James Bowers, Planning Office, University of Colorado

Kent Dewell, Traffic Engineer, City of Boulder

Dr. Byron L. Johnson, Director, Center for Urban Affairs at the Denver Center, University of Colorado

Moderator: Kent Brown, Student, University of Colorado

2:00 - 3:30 pm

Panel: **"Male Attitudes Toward Sterilization and Vasectomy."**, Ketchum 125

Participants:

Dr. Sherburne MacFarlan, Physician, Boulder

Dr. Ray Gutzort, Professor of Sociology, University of Colorado

Steve Castoff, Biology Graduate Student, University of Colorado

Reverend Norman Alexander, St. Ambrose Episcopal Church, Boulder

John Claydon, Research Assistant, Department of Molecular, Cellular and Developmental Biology, University of Colorado

2:00 - 3:30 pm

Speech: **"Noise Pollution."**, UMC 424

Dr. Richard K. Krug, Professor of Speech Pathology and Audiology, University of Colorado

2:00 - 3:30 pm

Panel: **"Population Control - Is There an Alternative?"**, Auditorium, Public Service

Participants:

Dr. Richard Waugh, President, Atapahoe Chemicals, Boulder

Sherril Tepper, Executive Director, Planned Parenthood of Colorado, Denver

Dr. Nicholas Schrock, Professor of Economics, University of Colorado

Moderator: Faith Witter, Boulder Planned Parenthood

2:00 - 3:30 pm

Panel: **"Power Plants and Industrial Air Pollution."**, New Business 249

Participants:

Dr. Paul Urone, Professor of Chemistry, University of Colorado

Dr. R. Curtis Johnson, Chairman, Department of Chemical Engineering, University of Colorado

George Benzen, Chairman, Boulder Utilities Committee

Andy Briscoe, Public Utilities Section Planning Department, City of Boulder

Moderator: John Kaakinen, Chemical Engineering Student, University of Colorado

3:00 - 4:00 pm

Speech: **"Pinebrook Hills: A Study of How Not to Build a Subdivision."**, UMC 424

Dave Fisher, Law Student, University of Colorado

Panel and Slide Presentation: **"Defoliation in Vietnam."**, Guggenheim 201

Speaker:

Dr. E. W. Pfeiffer, Professor of Zoology, University of Montana

Discussants:

Dr. Glenn Appelt, Associate Professor of Pharmacology, University of Colorado

Dr. V. Gene Erwin, Professor of Pharmacy and Toxicology, University of Colorado

4:00 pm

Rap Session: **"Project Rulison."**, Physics 104

Dr. Al Whately, Executive Director, Western Interstate Nuclear Board, Denver

Dr. Peter Metzger, Ball Brothers Research Corporation, and President, Colorado Committee for Environmental Information

Moderator: Dr. John Bushnell, Associate Professor of Biology, University of Colorado

4:00 - 5:30 pm

Panel: **"Industry, Consumers, and Growth."**, Chemistry 140

Participants:

William K. Coors, President, Adolph Coors Company, Golden, Colorado

Dr. Beatrice E. Willard, Vice President, Thorne Ecological Foundation, Boulder

Dr. Lawrence Senesh, Professor of Economics, University of Colorado

Richard Walker, Vice President in charge of Engineering and Planning, Public Service Company, Denver

Moderator: Mary Henderson, Boulder Teach-In

4:00 - 5:30 pm

Panel: **"Life Styles, Attitudes and Laws: Changes to Clean Our Air."**, UMC 159A

Participants:

Dr. James Hester, Professor of Anthropology, University of Colorado

Dr. Omer C. Stewart, Professor of Anthropology, University of Colorado

Tom Brightwell, Professor of Law, University of Denver

Robert Shipley, Air Pollution Control Officer, Department of Environmental Health, Boulder

Moderator: Ellie Crouse, Student, University of Colorado

4:00 - 5:30 pm

Panel: **"But What Can I Do?"**, Public Service Co. Auditorium

Participants:

Dr. James Swan, Lecturer in Resource Planning and Research Associate, Institute for Social Research, University of Michigan

Ted Tedesco, City Manager, Boulder

Dr. Norris Larson, Institute of Behavioral Science, University of Colorado

Moderator: Kate Stewart, Student, University of Colorado

4:00 - 5:30 pm

Panel: **"Predator Control: Is It Justified?"**, UMC 157

Participants:

Margaret Arp, Sierra Club, Predator Control Study Program Representative, U.S. Fish and Wildlife Service

Representative, Colorado Game, Fish and Parks

Moderator: Frank Flavin, Law Student, University of Colorado

Panel: **"Cool, Clean Water."**, New Business School 251

Participants:

John M. Rademacher, Regional Director, Missouri River Basin, Federal

Water Pollution Control Administration, Kansas City

4:00 - 5:30 pm

Dr. Robert Pennak, Professor of Biology, University of Colorado  
 Dr. Don Rummells, Associate Professor of Geology, University of Colorado

Robert Page, Bureau of Outdoor Recreation, Denver  
 Moderator: Don Erick, Biology Graduate Student, University of Colorado

5:30 - 7:00 pm  
 Earth Day Banquet, UMC Cafeteria

6:30 - 7:30 pm  
 Panel: "Solid Waste: How to Get Rid of It.", Board Room, Boulder Public Library

Participants:

Robert Shipley, Air Pollution Control Officer, Department of Environmental Health, Boulder

Harry Golby, Manager, Colorado Composting Corporation, Boulder

Moderator: Tom Wilson, Student, University of Colorado

Panel and Slide Presentation: "Low Income Housing: Problems and Solutions.", Auditorium, Boulder Public Library

Participants:

Richard R. Whitaker, Jr., Associate Professor of Architecture, University of Colorado

Frank Buchanan, Chairman, Housing Authority, City of Boulder

James Leach, Leach and Arnold Construction, Boulder

William Francis, W. H. Francis Realty Co., Boulder

Moderator: Steve Jones, Geology Graduate Student, University of Colorado

Speech: "The Politics of Overabundance.", UMC 157B

Burt Wallrich, Institute for the Study of Non-violence, Golden

"Symposium on Survival.", Field House, University of Colorado

Keynote: John C. Riggs, Special Assistant for Mineral Resources, U.S. Department of the Interior, Washington, D.C.

Discussants:

Richard Lamm, State Representative, Denver

Kenneth Boulding, Program Director, Institute of Behavioral Sciences, University of Colorado

Dr. Gilbert White, Director, Institute of Behavioral Sciences, University of Colorado

Senator John Bermingham, Denver

Dr. James Swan, Lecturer in Resource Planning, Department and Research Associate, Institute for Social Research, University of Michigan, Ann Arbor

Dr. E. W. Pfeiffer, Department of Zoology, University of Montana

Moderator: Lawrence Weiss, Editorial Writer, The Denver Post, Denver

Closing: Kent Palmer, Chairman, Boulder Teaching Entertainment by well-known rock group.

## WHAT CAN YOU DO ?

1. Solid wastes cause either land pollution or, if burned, air pollution. Every effort should be made to cut down on the volume of such wastes. The average American generates about five pounds of solid wastes per day. The general answer is to minimize wastes by curtailling excessive packaging, and to re-cycle wastes.
2. Use returnable bottles, not throwaways or cans.
3. Don't buy products with merely decorative unnecessary packaging. Toothpaste and shampoo containers, for example, don't need outside paper boxes.
4. Take your own basket shopping to cut down on the use of paper bags.
5. Reuse paper bags, boxes, plastic bags, envelopes, and other containers.
6. Use handkerchiefs, cloth napkins, and towels, instead of paper.
7. Be sure your own muffler, radios, air conditioners, TV's, etc., are not part of the noise problem.
8. Check to see that your community has a strong sign ordinance.
9. Keep your own environment clean and attractive. Do Not Litter.
10. A two-child family must be the maximum.
11. Support free access for everyone to birth control information and devices. Encourage birth control programs for all groups, not just the poor and minority groups.
12. Support legalization of voluntary abortion, and voluntary male and female sterilization.
13. Support legislation to eliminate tax deductions for more than two children.
14. Urge U.S. insistence on population control as the pre-requisite for food aid to foreign countries.
15. Do not burn leaves or trash. Make a compost pile.
16. Do not let your automobile idle unless this is necessary.
17. Walk, bicycle, or use rapid transit rather than your car. If a car is necessary, buy a small one.
18. Stop smoking.
19. Place several bricks in the flush tank of every toilet you use. This will reduce the amount of water used without decreasing the efficiency of the toilet.
20. Do not use colored tissue, colored paper, or colored napkins. Dyes released in the manufacturer's effluent pollute streams visually and biologically.
21. Turn off or request that officials turn off all drinking fountains of bubblers which flow continually in hallways, public places, etc.
22. Switch light bulbs not used for reading to lower wattage bulbs.
23. Use detergents, toothpaste, shampoos, and other household commodities which have the least detrimental effect on the water environment where they will eventually end up. A great deal of pollution comes from the phosphate chemicals in the detergents you use. The new bio-degradable detergents merely cut down the foam... They still contain phosphates, which fertilize algae and vegetation making green grass scum that increasingly borders our lakes and rivers. You as a consumer can hasten the production of non-polluting detergents. The following is a list of the percentages of phosphates in major detergent brands. (The less phosphates, the less product harms our lakes and rivers.)
- 24.

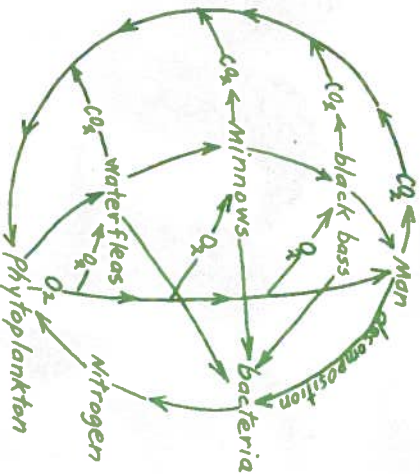
Amway Trizyme	52.5%	Bold	30.2%	Gain	24.4%	Fab	21.6%
Axlon	43.7%	Ajax	28.2%	Duz	23.1%	Cold Power	19.9%
Biz	40.4%	Punch	25.8%	Bonus	22.5%	Cold Water All	9.8%
Bio-Ad	35.5%	Drive	25.3%	Breeze	22.2%	Misk	7.6%
Salvo	35.3%	Dreft	24.5%	Cheer	22.0%	Trend	1.4%
Oxydol	30.7%						
Tide	30.7%						

## ENVIRONMENT I

ECOLOGY

Much has been written in the past year about "deterioration of the environment" and the "environmental crisis". Even the word "ecology" has come into popular usage. But what does this mean to you...to me...to the guy on the street?

Ecology can be likened to the thread in a string of beads. It is the thread which ties all the parts together. The thread, or web of life, is the interdependency of all living things...from the lowest form of life to the highest --- man. To clarify the interrelationships operating in this web of life, follow the events in this very simplified chain illustrating the life-support systems necessary to provide a fisherman with a meal of black bass.



The whole chain operates smoothly and guarantees a life-support system for all the parts. However, when one part of the whole is destroyed or disturbed, the chain begins to break down. As an example, what conditions might destroy land vegetation as a source of oxygen? Destruction of natural vegetation to make way for super-highways or huge concreted parking lots...indiscriminate use of herbicides...creation of barren fields from over-plowing. Nature has many safeguards built into the system. Another source of oxygen is the plankton in the sea. A major source---70%. Again, man has threatened the viability of that part of the chain. Excessive amounts of DDT being discharged into the oceans have endangered the plankton---a vital and irreplaceable part of the chain.

Animals must have oxygen in order to survive---man included. Animals must have water in order to survive---man included. Man is the only part of the chain which destroys or tampers with those elements in the life-support system necessary to sustain life on earth.

What is the importance of ecology? It is the tool for understanding the interrelationships of all living things and for understanding the hardy yet delicate balance which exists in these interrelationships. As one of the most powerful forces in the environment, man must reevaluate his responsibility as a participating member in the chain of life and utilize the tools of ecology in restoring and maintaining the environment---it's the only one he has!

