

Update: 16 January, 1989

**Stanford University 1988-89
"You Can Make a Difference Conference"**

DECIDING OUR ENVIRONMENTAL FUTURE

Pre-Conference Events

Faith, Philosophy, and Our Relationship to the Natural Environment

Sunday, January 22, 10:00 AM Service, 11:00 AM Forum, Memorial Church

What do some of our major religions reveal about our relationship to the environment? As part of the regular Memorial Church Sunday Service, representatives of different spiritual traditions will describe their faiths' views on the human relationship to the environment. Following the 10 AM service there will be a discussion of the different viewpoints presented.

- The Reverend Don Castro, Minister of the Seattle Betsuin Buddhist Temple
- Professor Paula Gunn Allen, Native American Studies, University of California- Berkeley
- Ms. Charlene Spretnak, Green Politics Philosopher, Author of Spiritual Dimensions of Green Politics
- Dr. Harlan Stelmach, Graduate Theological Union of Ethics and Social Policy, Berkeley

A Spiritual Message from the Hopi Nation

Thursday, January 26, 8:00 PM , Cubberley Auditorium

Thomas Banyacya, Spokesman for the Hopi Nation

Following up on Sunday's event, Mr. Banyacya's speech will examine the relation of the Hopi legend and prophecy to the history and future of our environment's degradation. Mr. Banyacya brings both his unique perspective and 40 years of experience working on environmental issues and to this presentation.

Conference Events

Saturday, January 28, 1989

**8:00-8:55 AM Conference Registration,
Kresge Auditorium**

9:00-9:10 AM Opening Remarks
Donald Kennedy, President, Stanford University

9:10-10:00 AM Keynote Address
Peter Raven, Secretary, National Academy of Sciences, and
Director, Missouri Botanical Garden

10:15-12:15 AM Morning Case Sessions: Responding to Global Challenges

• Ozone Depletion and Acid Rain: International Crises or Catalysts for Cooperation?

Ozone "holes" in the atmosphere and acidified trees and waterways are problems that cross borders, affect people and ecosystems indiscriminately, and need to be resolved through international cooperation. Yet our political and scientific decision makers have handled the ozone issue far more effectively than the acid rain issue. What different factors influence our ability to mitigate these two problems? What are the costs associated with delaying our response? What can we do as consumers and as citizens to alleviate the problems?

- Moderator: -- Tina Hobson, Executive Director, Renew America Project
Panelists: -- D. Warner North, Principal, Decision Focus, Inc., Consulting Professor, Engineering Economic Systems, Stanford University
-- Armin Rosencranz, Ph. D., President, Pacific Energy and Resources Center, former Stanford Trustee
-- James Losey, former member of U.S. Delegation to the Montreal CFC Ban Treaty Accords
-- John Roberts, former Minister of the Environment for Canada

• Understanding and Stabilizing Our Changing Global Climate

This past summer's drought raised international awareness of the probable links between human activity and a changing global climate. To what degree are we destabilizing our climate and what are the potential ramifications of this change? How will uncertainty about the nature of the problem affect our attempts to stabilize the global climate? How can we best respond to this most challenging side-effect of a fossil-fuel based civilization?

- Moderator: -- Gil Masters, Prof of Civil Engineering, Stanford University
Panelists: -- Alden Bryant, President, Earth Regeneration Society
-- Hal Mooney, Professor of Biological Sciences, Center for Conservation Biology, Stanford University
-- Chauncey Starr, Ph. D., President Emeritus, Electric Power Research Institute (EPRI)
-- Warren Washington, Ph. D., Climate Research Scientist, National Center For Atmospheric Research (NCAR)

• Rainforest Use in the Tropics: Development or Destruction at What Cost?

Tropical rainforests provide indigenous peoples, recently displaced city dwellers, and the citizens of industrialized nations with many basic necessities -- like food, shelter, clothing, medicine, and oxygen. As tropical nations rush to develop their rainforest resources, how are the short- and long-term costs and benefits being evaluated? What economic imperatives have led to the intensive use of rainforests? How can North Americans have a positive influence on these events?

- Moderator: -- Monti Aguirre, Co-producer and Co-director, Amazon Film Project
Panelists: -- Nilo Cayuqueo, Coordinator, South and Meso-American Indian Information Center
-- George Ledec, Doctoral Candidate - Economics, UC Berkeley
-- Randall Hayes, Executive Director, Rainforest Action Network

- Peter Vitousek, Associate Professor of Biological Sciences, Stanford University
- Rodrigo Gamez, Ph. D., Presidential Advisor for Natural Resources, Costa Rica

• **Taking it Abroad: Who Benefits from the Hazardous Waste Trade?**

Tightening regulations on hazardous waste disposal in industrialized countries creates incentives to export toxics abroad. While such trade confers financial benefits to shipper and receiver alike, the environmental and health costs can be great. Officials from Nigeria and Guyana, along with industry and environmental representatives, will debate the complex costs and benefits of the toxics trade, focusing on the decision-making processes and economic structures which underly such exchanges.

- Moderator: -- Jonathan Jansen, Doctoral Candidate, School of Education, Stanford University
- Panelists: -- Mark Eze, Nigerian Consul General
- Pat Costner, Research Director, National Source Reduction Campaign, Greenpeace, USA
 - Winston King, Executive Chairman and Officer, Guyana Natural Resources Agency
 - Finn Moller, CEO at Potts Industries
 - Suellen W. Pirages, Ph. D., Managing Director for Environmental Policy, National Solid Wastes Management Association

• **The Politics of Global Family Planning**

Many people believe that population growth is a major contributing factor in most of the environmental challenges confronting us. If this is true, population policy and family planning are significant components of a comprehensive response to our environmental problems. Aside from the personal reproductive choices we make, we impact world population growth through the population policies of our governments. This session examines in what ways current US population policy supports or fails to support international efforts to slow population growth, and why.

- Moderator: -- Fred Pinkham, Ph. D., Associate Director, Morrison Institute for Population and Resource Studies, Stanford University
- Panelists: -- Sarah C. Clark, Ph. D., Deputy Director, Office of Population, U.S. Agency for International Development
- Francisco DiBlasi, Senior Program Advisor, International Planned Parenthood Federation
 - Ann Firth-Murray, President, Global Fund for Women

• **The Dilemma of Disappearing Species: Meeting Human Needs While Preserving Animal Habitats**

Why is it ecologically and economically important for us to preserve endangered species? How does the present political process slowdown or accelerate current rates of extinction? Representatives from political, industrial, environmental, and scientific sectors will critique the impact and effectiveness of the Endangered Species Act .

- Moderator: -- Peter Raven, Ph. D., Secretary, National Academy of Sciences, and Director, Missouri Botanical Garden
- Panelists: -- Steve McCormick, California Nature Conservancy
- James D. Range, Senior Director for Government Affairs, Waste Management, Inc.

- Edward T. LaRoe, Ph. D. , Cooperative Research Unit, U.S. Fish and Wildlife Service
- Dennis Murphy, Professor and Director, Center for Conservation Biology, Stanford University

• **Combatting Land Degradation: Strategies for Sustainable Development**

Soil erosion, salination, and desertification have been called the "silent crises facing the global economy." These processes of land degradation are posing a major threat to our future, and some regions' current, ability to feed people and support animal life. This session will examine the magnitude, causal factors, and possible responses to this problem, with particular attention paid to Africa.

Moderator:

- Panelists:
- Mahamadou Nassirou Ba, Humphrey Fellow , U.C. Davis
 - Dean Freudenberger, Land Degradation Specialist and Professor, Claremont School of Theology
 - Jeffrey A. Gritzner, Ph. D., Senior Associate, World Resources Institute
 - Rattan Lal, Ph. D., President, International Association for Soil and Water Conservation, and Professor of Agronomy, Ohio State University

• **Biotechnology: Abating or Abetting Environmental Stresses in Agriculture?**

Modern agricultural practices exchange high productivity for environmental impacts like pesticide accumulation, topsoil erosion, and heavy demands for energy and water . Biotechnology, the science of designing and testing genetically-altered life forms, has recently shown how to lessen environmental stresses while maintaining high food production levels. What are the potential public health costs accompanying biotechnology's promising benefits? Under what sort of regulatory framework should this form of "accelerated evolution" occur?

Moderator: -- Sandra Archibald, Assistant Professor , Food Research Institute, Stanford University

- Panelists:
- Donald Dahlsten, Professor of Entomology, U.C. Berkeley
 - Jane Rissler, Ph. D., Biotechnology Specialist, National Biotechnology Policy Center, National Wildlife Federation
 - Stephen Rogers, Ph. D., Fellow, Monsanto Company
 - Virginia Walbot, Associate Professor of Biological Sciences, Stanford University

12:30-1:55 PM Lunch, Opportunities Faire, and Information Tables

2:00-3:45 PM Environmental Policy-making In the 90's: How Can We Make a Difference?

Moderator: Ted Koppel, ABC 's *Nightline*

- Panelists:
- Judith E. Ayres, Vice-President, William D. Ruckelshaus Associates, and former E.P.A. Administrator, Region 9 .
 - David Brower, Founder and Chairman, Earth Island Institute
 - James N. Sullivan, Vice Chairman, Chevron Corporation.
 - Greg Watson, Executive Director, Office of Science and Technology, State of Massachusetts
 - Joan Martin-Brown, Senior Liaison Officer, United Nations Environment Programme.

4:00-5:50 PM Afternoon Case Sessions: Responding at the Regional Level

• Logging the Ancient Forests of the Pacific Northwest: A Question Of Economic and Ecological Viability

Ancient forests -- forests that have never been logged -- form the basis for extraordinarily complex ecosystems. The timber needs of North America have led to the logging of 80 percent of these forests. Should the remainder be preserved, logged, or managed for multiple uses? Which forest uses are mutually compatible, and which are not?

- Moderator: -- Robert Ewing, Ph.D., Director, Forest and Range Resource Analysis, California Department of Forestry
- Panelists: -- John Berry, District Ranger, Clackamas Ranger District, Mt. Hood National Forest
- Coyote (Fred Downing), West Coast Representative, Council of Elders, Leaders, Chiefs, and Medicine People
- William Dennison, President, Timber Association of California
- Martin Raphael, Ph. D. Research Scientist, U.S. Forest Service
- Michael Roselle, Member, Earth First!

• The Trash Wars: Why We Need to Abandon the Throw-Away Ethic

Cities and counties around the country are facing a major crisis in the disposal of solid waste. Land fills that have been in use for decades are now filling up and communities are having to make tough decisions about future alternatives. San Mateo County's Ox Mountain landfill debate will be used to bring the issues into focus. Special attention will be paid to the need for increased recycling and the reduced use of disposables if the long-term economic and environmental costs of trash disposal are to be kept down.

- Moderator: -- Terry Trumbull, Environmental Attorney and former director of California Board of Waste Management
- Panelists: -- Gilbert Gossett, Half Moon Bay Farmer
- Tom Nolan, President, San Mateo County Board of Supervisors
- Barney Opton, Ph. D., Environmental Resource Manager, U.S. Army Corps of Engineers
- Steven Ritchie, Executive Officer, California Regional Water Quality Control Board, San Francisco Bay Region
- Lino Valbusa, District Manager, Browning-Ferris Industries (BFI)
- Fred Martin, Co-founder, Californians Against Waste

• A Citizen's Forum on Development in East Palo Alto (To be held in East Palo Alto)

Rapid changes in East Palo Alto's current land use priorities and housing options highlight the need for local citizens to understand the development process. This forum will bring together local developers, citizens, and government officials to explore their concerns and to explain how these concerns can be addressed by public involvement in the decisionmaking process.

- Moderator: -- Joyce King, Ph. D., Director of Teaching, Santa Clara University
- Panelists: -- Trevor Burrowes, Landscape Historian and East Palo Alto Resident
- Armond Ross, East Palo Alto Planning Commission
- Mahasin Khan, United Peoples of East Palo Alto and East Menio Park
- Joaquin DeMonet, De Monet Industries
- Wendy Cosin, Pacifica Planning Commission
- Bob Hoover, Youth Development Council, East Palo Alto(invited)

• **The Politics of Allocation: Who's Getting California's Water?**

Most California residents and farmers live in arid or semi-arid climates and rely on water diverted from other parts of the State. How can we balance these competing needs for a scarce resource and also respond to critical environmental concerns? What role will conservation efforts play?

- Moderator: -- David Freyberg, Professor of Civil Engineering, Stanford University
Panelists: -- Bill Dubois, California Farm Bureau (invited)
-- B.J. Miller, Ph.D., Consulting Engineer, specialist in California Water issues, consultant to East Bay Municipal Utility District
-- Tom Graff, Environmental Defense Fund (invited)
-- Brian Gray, Professor of Law, Hastings University

• **Hazardous Waste Source Reduction: Achieving The Ultimate Solution**

Most interest groups agree that producing less and recycling more hazardous substances on-site are necessary responses to the toxic waste problem. Yet much remains to be done in implementing and financing effective waste reduction programs in industry. What initiatives and policies have been most successful? How can lasting public safety be assured?

- Moderator: -- Barton H. Thompson, Jr., Associate Professor of Law, Stanford Law School
Panelists: -- Jeffrey Zelikson, Director, Toxics and Waste Management Division, United States E.P.A. Region 9
-- Jacqueline A. Bogard, Director, Environmental Programs, Santa Clara County Manufacturing Group
-- Ray Kerby, Director, Environmental Programs, IBM
-- Perry McCarty, Professor of Civil Engineering, Stanford University; Director, EPA Western Regions Hazardous Substances Research Center
-- David B. Roe, Senior Counsel, Environmental Defense Fund

• **Debating Offshore Oil Drilling: Whose Economy Is at Stake?**

Large tracts of land off the California coast are slated for lease to oil companies. Proponents point to our national security need for reducing reliance on foreign oil; opponents cite a series of regional economic and environmental threats from drilling. What alternatives to this stalemate will address both our environmental and economic security needs?

- Moderator: -- James Newton, Director, Central Coast Conservation Center; Professor, San Francisco State University
Panelists: -- Mike Fergus, Staff Representative, Western States Petroleum Association
-- J. Lisle Reed, Ph. D., Regional Director, Mineral Management Service, Pacific Region Outer Continental Shelf Office, Dept. of the Interior
-- Richard Charter, Director, California Local Government Coordination Program
-- Anna Eshoo, San Mateo County Board of Supervisors

- **Environmental Impacts Of National Security: Managing Department Of Defense Wastes In Hanford, WA**

News articles have recently brought to public attention the mismanagement of nuclear and toxic waste disposal at U. S. weapons production facilities, and the fact that, historically, national security needs have been invoked to exempt these facilities from the oversight procedures and standards applied to commercial operations. This session examines these issues in the context of the Hanford Reactor Complex controversy, and asks what policy changes might more adequately protect the public.

- Moderator: -- Chris Whipple, Ph. D., Electric Power Research Institute
Panelists: -- Ron Izatt, Office of Communications, United States Department of Energy
-- Roger Stanley, Washington State Attorney General's Office, Technical Adviser in DOE negotiations
-- Timothy Connor, Hanford Education Action League
-- Ron Lerch, Divisional Manager, Westinghouse Hanford Co.

- **Living Under the Influence of Effluents : Community Response to Industrial Air Pollution**

The residents of urban communities subject to downstream air and water pollution from industrial plants often feel they are inadequately protected from these threats to their health. This session examines the response of the residents of Richmond, California to industry-generated air pollution, and raises questions as to: (1) whether current government guidelines are adequate, (2) whether industry is behaving responsibly, and (3) whether government and industry are sufficiently accountable to the citizenry on the issues.

- Moderator: -- Daniel Abbasi, Associate Director, Center for Conflict Negotiation, Stanford Law School
Panelists: -- Henry Clark, West County Toxics Coalition
-- Mike Belliveau, Citizens For A Better Environment
-- Peter Williams, Manager of Environmental Affairs, Chevron Corporation
-- Steve Hill, Manager, Air Quality Engineering, Bay Area Air Quality Management district
-- Dan McLanahan, Richmond Fire Department
-- Wendell Brunner, MD, Director of Public Health, Contra Costa County Health Services Department

- **Highways or Flyways: Urban Development versus Wetlands Conservation**

Urban development and agricultural expansion are leading to the disappearance of wetlands at an unprecedented rate. Wetland ecosystems serve as a vital life supporting habitat during crucial phases of the life-cycles of both numerous forms of marine life and of migrating birds. Newark's Mayhew Landing "wetlands preservation or development" debate will serve as a focus for discussing the tough choices we face in reconciling the demands of a growing human population with those of preserving biological diversity and open space.

- Moderator: -- Steve McAdam, Planning Director, San Francisco Bay Conservation and Development Commission

- Panelists:
- William Whalen, William Whalen and Associates
 - Bernard "Skid" Hall, Visiting Professor of Civil Engineering, Stanford University
 - Mark Holmes, Program Director, Save San Francisco Bay Association
 - Rick Colman, Director, San Francisco Bay Wildlife Refuge, United States Fish and Wildlife Service

6:00-7:15 Reception

Sunday January 29, 1989

8:30-12:00 AM Our Environment Up Close: Bay Area Tours

Several organizations will lead interested attendees on tours of places that exemplify both endemic problems and innovative solutions affecting our environmental future. Bag lunch discussions will focus on how "making a difference" is possible in each tour's area of concern.

12:15-12:45 PM Featured Speaker. "Revitalizing The Environmental Movement."

Denis A. Hayes, Chairman, Earth Day 1990, and San Francisco Attorney

12:45-2:45 PM Stanford's Environmental Transformation: Our Campus as a Microcosm for Environmental Decision-making.

Three separate panels will each explore a major environmental issue facing Stanford. **The Future of Land Development at Stanford** will examine critical land use planning issues involving the Near West Campus Development Project, the Stanford Foothills, development impacts on surrounding communities and opportunities for sustainable land use planning. **Stanford's Corporate Investments** will investigate the opportunities and impacts of incorporating environmental screening into Stanford's corporate investment strategies. **Hazardous Materials Management**, on the heels of an extended review of health and safety issues at Stanford, will focus on issues involving hazardous wastes in the Stanford Industrial Park, and the disposal of hazardous materials in university laboratory facilities.

• The Future Of Land Development at Stanford

Moderator:

- Panelists:
- Thomas W. Ford, Stanford Trustees' Committee on Land Use and Buildings and President, Ford Land Company
 - David Schrom, Magic Inc., and Consultant with the Stanford Planning Commission
 - Michael Corbett, Urban Planning Consultant, and Mayor, Davis, CA
 - Enid Pearson, Committee For Green Foothills; People For Open Space

• Hazardous Materials Management

Moderator:

- Panelists:
- Alain DeCleve, Director, Health and Safety Department, Stanford University
 - John D. Joynt, President, Barron Park Association
 - Ken Sutherland, Corporate Environmental Manager, Hewlett-Packard
 - Mark Wilson, Engineer, California Regional Water Quality Control Board-- San Francisco Region

• **Stanford's Corporate Investments**

Moderator:

- Panelists: -- **Ted Mitchell**, Chair, Stanford Trustees' Committee on Investment Responsibility
-- **Nancy E. Pfund**, General Partner, Hambrecht & Quist Venture Partners
-- **Michail Kieschnick**, President, MHK Ventures
-- **John Lickerman**, Research Analyst, Working Assets Money Fund

12:15-2:45 PM A Revolution In Urban Evolution? The Sustainable City Concept

Explores how the programs and policies of local government can be reshaped to help solve global problems as well as better accomplish traditional health, safety, and economic development goals. Describes innovative efforts by San Jose in energy, water, solid waste, toxics, land use, transportation, infrastructure, and housing.

Presenters for the City of San Jose:

- Shirley Lewis**, San Jose City Council; Chair, Council Environment Committee
- Judy Stabile**, San Jose City Council: Chair: Urban Infrastructure Board
- Gary Schoennauer**, Director, Planning Department, City of San Jose
- Michelle Yesney**, Director, Office of Environmental Management, City of San Jose
- Gerald E. Newfarmer**, City Manager, City of San Jose
- Les White**, Assistant City Manager, City of San Jose
- Dennis Church**, Policy Advisor, City of San Jose

Moderator: --**James Bettinger**, City Editor, San Jose Mercury News

- Panelists: --**Donald Aitken**, Professor and Environmental Studies Coordinator, San Jose State University
--**Peter Giles**, President, Technology Center of Silicon Valley Television; City of San Jose Planning Commissioner
--**Robert Mang**, President, Greenbelt Alliance/ People for Open Space
--**Steve Speno**, Executive Vice-President, Gibson & Speno Company

3:00-3:50 and 4:00-4:50 PM Action Workshops: Approaches for Creating a Sustainable Future.

This will be a series of hands-on workshops devoted to "making a difference" on environmental issues. Topics will include affecting environmental change through:

- **Legislation**
- **Media and the Environment**
- **High School Environmental Education**
- **Conflict Resolution**
- **Cutting Edge Research at Stanford**
- **Lifestyles**
- **Reforestation**
- **Restoration**
- **Community Trust Building**
- **Computers and Environmental Activism**
- **Open Space Preservation**
- **and more!!**

Post-Conference Events

Energy, the Environment and the Economy: Choosing Among Diverse Options for the Future

Tuesday, January 31, 7:30PM, Terman Auditorium

Relates energy and its pivotal role in the world economy to various environmental problems such as the greenhouse effect, oil spills, nuclear waste, acid rain, and resource depletion. Experts from both conventional and alternative energy fields will discuss appropriate policies and the role that different technologies could assume in our energy future.

- Moderator: -- James Sweeney, Professor of Engineering-Economic Systems, Stanford University
- Panelists: -- Mason Willrich, Executive Vice-President, PG&E; President and C.E.O., PG&E Enterprises
- Donald Aitken, Professor and Environmental Studies Coordinator, San Jose State University
- Amory Lovins, Ph. D., Director of Research, Rocky Mountain Institute
- Tina Hobson, Executive Director, Renew America Project

Population, Resources, Environment: Making the Connections

Co-sponsored by the Morrison Institute on Population and Resource Studies

Thursday, February 2, 8:00 PM, Cubberley Auditorium

Professor Paul Ehrlich will moderate an interdisciplinary panel discussion weaving together the many topics covered in the Conference. Panelists will discuss how ecology and economics interact in issues of sustainable development.

- Moderator: -- Paul Ehrlich, Bing Professor of Population Studies, Center for Conservation Biology, Stanford University
- Panelists:- -- Stephen Schneider, Ph. D., National Center for Atmospheric Research
- Herman Daly, Ph. D., Senior Environmental Economist, The World Bank
- Peter Vitousek, Associate Professor of Biological Sciences, Stanford University
- John P. Holdren, Ph. D., Energy Resources Group, UC - Berkeley
- Pamela Matson, Ph. D., Earth Systems Science Division, NASA
- Peter Raven, Ph. D., Director, Missouri Botanical Garden, and Secretary, National Academy of Sciences
- Pamela Matson, Ph.D., Earth Systems Science Division, NASA
- Peter Raven, Ph. D., Secretary, National Academy of Sciences, and Director, Missouri Botanical Garden