

**Program for Crossroads of Earth Resources and Society**  
**Vision Quest Student Research Symposium Poster Session for Cal Day 2005**

Earth and Planetary Science 106 AC and Letters and Science 170AC

A course satisfying the American Cultures (AC) requirement & a Breadth Requirement in Physical Science

**Schedule**

**9:00-9:20** Introductory overview of the class by George Brimhall in Room 141 McCone Hall on Crossroads in Earth Resources and Society- Where is the U.S. headed ? Scope of the Vision Quest presentations

**9:20 -12:00** Student Vision Quest poster presentations on Third floor of McCone Hall

**Overview:**

All societies throughout history have depended upon earth resources of land, air, fuels, minerals and water for their existence. Conflicts over land and earth resources arise at the cross roads of cultural interaction, historically where colonization displaced indigenous populations and now in a global arena where resources are traded. This class is an introduction to this complex interdisciplinary topic from a geological perspective. The program today includes presentations by students expressing their own personal "vision quests" seeking answers to pressing real problems of earth resources and society. The issues today are only partly scientific and technological, but instead involve cultural, social and political aspects that limit the available choices and thus direct the U.S. on its pathway into the future. The crossroads we all now face together as one, uniquely complex multi-cultural American People facing unprecedented challenges. This modern era of crisis in a new century has arrived with worlds in collision, still rooted in conflict over lands, resources and belief systems. It is essential that students inform themselves about current events and learn an analytical approach to studying current events that prepares them to participate in the voting process with an informed opinion and a willingness to become effective communicators engaging in a productive dialogue from which wise collective choices emerge. Please talk with each of them about their work. They have been asked to explore real issues in ways that may help prepare them to live in and to contribute to a multicultural American society; one that has a positive impact on the world today in terms of energy resource policy, technological and consumer choices, environmental impact and global peace.

The U. S. provides the preeminent case for study of resource and society interaction. Its rapid colonization of a vast land with varied indigenous cultures, on-going tribal land issues, multicultural immigration and diversity, current wars in Afghanistan and Iraq and contentious debate over how best to confront declining supplies of cheap oil and loss of industrial jobs to a global market place makes it so. By stepping back and taking stock in our past we can bring into better focus how ethnicity has been part of the collective American movement. It is a history of tension, conflict, warfare, and federal statutes that clearly favored the rights of one race over another, of inequity and injustice but also of truly remarkable creativeness and productivity developing an industrialized society from a unique geological endowment of varied earth resources to build an economic infrastructure and technology that set an international standard.

The American way of life today reflects a contradiction between a materialistic lifestyle and the stark limitations of a hospitable but finite planet to provide the basic material and energy needs of society while sustaining an acceptable environmental impact. Globalization may provide an worthy answer or it may be instead a deceptive escape from this contradiction. Perhaps we can identify wisdom and insight from traditional sources that might help shape a more egalitarian value system than our preoccupation with economic growth which is incompatible with the realities of limitation.

George Brimhall

THEME

AUTHOR(S)

PROJECT TITLE

**Response to Natural Disasters:**

- (1) **Sylvia Hartanto and Pearlyn Widjaja:** "The Deadliest Natural Disaster in Recorded History, The Indian Ocean Tsunami 2004, its Causes and Effects on the People of Indonesia"

**Earth Materials Used by Society:**

- (2) **Betty Sousa:** "What Are Plastics?"  
(3) **Yili Shi:** "Drugs from Nature: A Closer View of Where Drugs Come From"

**Traditional Wisdom and Land Use Issues on Tribal Lands:**

- (4) **James Kealy and Ajay Limaye:** "A Rising Tides Sinks These Stones: The Imperiled Heritage of the Winnemem Wintu"  
(5) **Tyler Salman:** "A Land of Plenty: Using Creation Myths to Understand America's Estrangement From the Land"  
(6) **Anders Vidstrand:** "Going Native in the New Millennium: A Return to Folks ways in the Form of Hybrid Communities of resistance. The Traditions of Dropouts and Maroons in America"  
(7) **Danny Ebert:** "Shamanism: An Exploration of the Healing Powers of the Native Americans"  
(8) **Mari Collins, Arsalan Salmat, and Gina Spitz:** " Berkeley's Earth Resources and Native American Wisdom"  
(9) **Christopher Ng:** "Struggles of an Ancient People: The Survival of Native Americans in the Modern World"  
(10) **Sara Garrett and Shea Anti:** "Native American Environmental Balance Versus the Desire for Development"  
(11) **Michelle MacDonald and Erin Golub:** "The Chemical Peel"

**Voices From the Past and Present:**

- (12) **Kallista Haltom:** "The Hidden Effects of History on Modern Concepts of Nature: Visions of California Through Poetry and Prose"  
(13) **Julia Lucky:** "Breathing Life into the Voices of Pioneer Women"  
(14) **Alexis Ashot:** "The Continuity of Life: Native Thought About Nature and Art"

### **Racial Discrimination in American Land Use and Abuse:**

- (15) **Ian Tsan:** "Institutional Discrimination: Can We Ever Learn from our Mistakes"
- (16) **Sharif Ebrahim:** "Is Bigotry Immoral- or Does It Make Perfect Sense?"
- (17) **Ernest Cheng:** "The Establishment of Chinatowns in the West"

### **Novel Technological Strategies and Transportation Systems:**

- (18) **Allen Lew:** "Opening up Society"
- (19) **Stephen Smith:** "The Power of Applied Microbiology to Address Today's Problems of Resource Management, and the Societal Implications of the Application of This Technology"
- (20) **Jasmine Dunning:** "Public Transportation and Energy Sustainability in America"

### **Water Resource Issues, Land Ethic and Impacts on the Land:**

- (21) **Kieran Melody:** "Management of Fresh Water in the 21<sup>st</sup> Century"
- (22) **Nicholas Perry:** "Restore the Lost Valley? The Debate on the Plausible Removal of Hetch Hetch Reservoir"
- (23) **Luca Tseng:** "The Sinking Desert Southwest: Human Impact on Land Subsidence"
- (24) **Justin Goya:** "A Search for a Forest Ethic"

### **Culinary, Vita Cultural and Agricultural Uses of Land and Evolving Attitudes:**

- (25) **Jordan Brooks:** "Sustaining the Napa Valley Terroir"
- (26) **William Felder:** "How to Get By When Safeway Runs Dry: A Contingency Plan for the Post-Petroleum Economy"
- (27) **Elizabeth Caldwell:** "The Changing Culinary Culture of the Bay Area: Past, Present and Future"
- (28) **Jason Garcia:** Tobacco and Wine: "Killing American Agriculture?"
- (29) **Evan Lane:** "Large Scale Farming: The Curse of the Land"
- (30) **Matthew Sander:** "Accommodating World Peopling: Spacial Conservation in Food Production and Recycling."

### **Present and Future Energy Sources and Their Impacts:**

- (31) **Magen Farrar:** "Radioactive America"
- (32) **Kelly Daugherty and John-Paul Jones:** "The Future of the Earth's Energy Supply: Nuclear, Solar, and Fuel Cell Development"
- (33) **Hiu Yan Lau:** "Social Issues and Government's Role in the Development of Wind Energy in the United States"
- (34) **Christopher Yap:** "The Actual Cost of Solar Power"

### **Environmental, Social and Political Impacts of Industry:**

- (35) **Jeremias Zunguze:** "Tears of Diamonds: U.S. Foreign Policy in the Democratic Republic of Congo (D.R.C.)"
- (36) **Yomei Kajita:** "Methylmercury: The Fishy Poison"
- (37) **Chenoa Landry:** "Impacts of Uranium and Gold Mining on Native American People"
- (38) **Jeremy Treanor:** "What We Lost for Gold"
- (39) **Joseph Nolan:** "The Reprehensible Practices of Mountain Coal Mining"

### **Consumerism and the Collapse of Society with Exhaustion of Earth Resources:**

- (40) **Frances Astoraga and Cem Atabek:** "Will The U.S. become Another Lost Civilization?"
- (41) **Juan Bahena:** "What Your Shopping Habits Are Doing to the Rest of the World"
- (42) **Savannah Lees-Haley:** "Conscientious Consumption: Letting Go of the Aesthetic of Excess"

### **Federal Policy and Leadership:**

- (43) **Amy Jacques-Jones:** "The Bush Administration and the Distortion and Censorship of Science"

### **Monetary Systems Using Earth Resources:**

- (44) **Leland Wilkins:** "Gold As Money"

George Brimhall, Professor  
Jennifer Redmond, Graduate Instructor

C. C. Wishon: The high cost of textbooks

Semra Hunter, Ida Momtaheni, Sian Bentson: A World Without Resources

Brent Dutra: Effective Means of Generating Electricity for Various Populaces

Zack Gainsforth: Transport of Alternative Energy Transport

Casey Wright: How will we survive in a post-peak oil world?

Ross Hollenkamp: Importance and implications of the U.S. signing on to the Kyoto Protocol.

Nick Ragestar, Angelito Rivera, and Megan Votaw: Many Small Solutions to a Large Problem

Sarah Pine and Sylvia Sale: Blue Gold: *Potential Solutions to California Water Mismanagement*

Meghan Keen: Education and AIDS in Kenya

Tanya Chapple: Wild Foods and the Promotion of Agricultural Biodiversity

Lilly Aston: Educational Systems Forming Ideal Citizens

Christopher Ha: The Fuels of Tomorrow

Eugene Konagaya: The Foreseeable Energy Crisis: The Political and Economical Implications

Shantelle Despabiladeras and Minh-Chi Tran, "Losing Paradise"

Alexis Wielunski: Black Mesa: Dine and Hopi Resistance and the Need for Self-Determination

Mark Allen Piccolo: Ode to People at risk of being Forgotten

Mark Lambert: History of carbon credits and carbon credit trading, as well as the Kyoto Protocol.

Kelly White and Courtney Hart: Bio-diesel as Part of Sustainable Communities

Korey Kassir and Doug Deroy: Global Warming, Alternative Energy, and the Road Ahead

Eric Griffin: Biotic Mining and Remediation-Mineral Recovery in Harmony with the Environment

Charles Paradis and Jonathan Yu: Something Stinks: How Americans value energy

Tei Newman-Lehman: Symbiosis; a More Conservative Approach to our Energy Future

Christina David, Ida Momtaheni, and Max Jacobs: Holistic Farming for the Twenty-First Century

Justin Crigler: The Media and Consumption

Jason Ruggiero: Reinventing Nuclear Power

Ross Diankov: Automating Society With Machines

Elliot Schatmeier: Post Katrina New Orleans: Rebuilding a Culture and a Race

Kevin Matthews: Auditory and Visual Merchandizing and Today's Luxury-Goods

Chun-Yu Lee, Hee-Chan Cho, and Jay Park: bridging the gap between food and its land source

Joelle Birnberg: Slash and Burn Consumerism-How Your Choices Determine the Fate of the World

Tianyi Feng:

Manu Gaur:

Jonah Lipsitt:

Joshua Gustafson: California Prisons

Rachael Kennedy:

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