

The American College and University Presidents Climate Commitment - Sustainability @ WCC

"Sustainable development ... meets the needs of the present without compromising the ability of future generations to meet their own needs."

- *Report of the Brundtland Commission,
Oxford University Press, 1987*













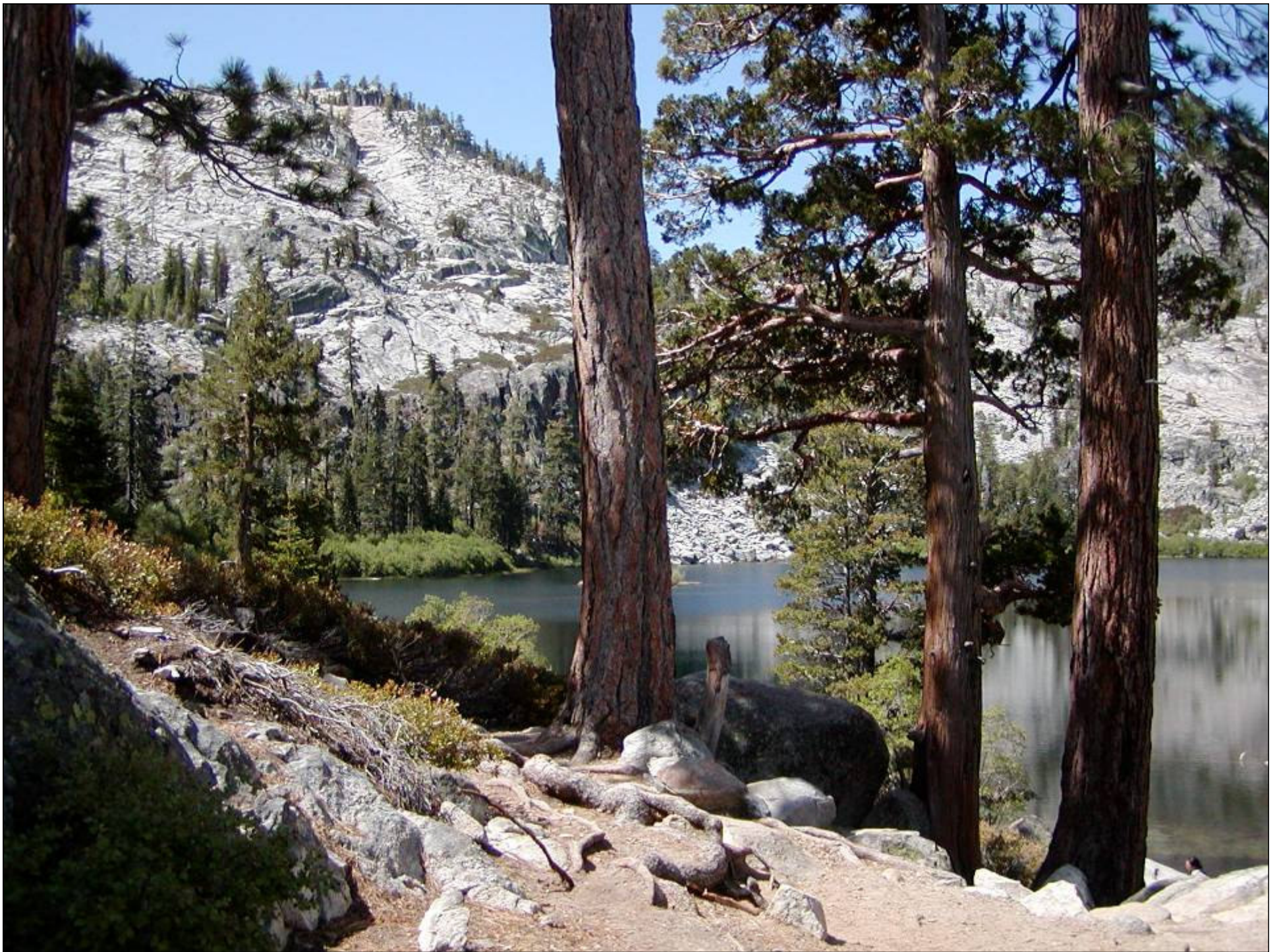


“Our decision about energy will test the character of the American people and the ability of the President and the Congress to govern this Nation.

This difficult effort will be the "moral equivalent of war," except that we will be uniting our efforts to build and not to destroy.”

- President Jimmy Carter, April 18, 1977























“What we do in the next two to three years will determine our future.”

-I.P.C.C. chairman, Rajendra Pachauri, November 2007







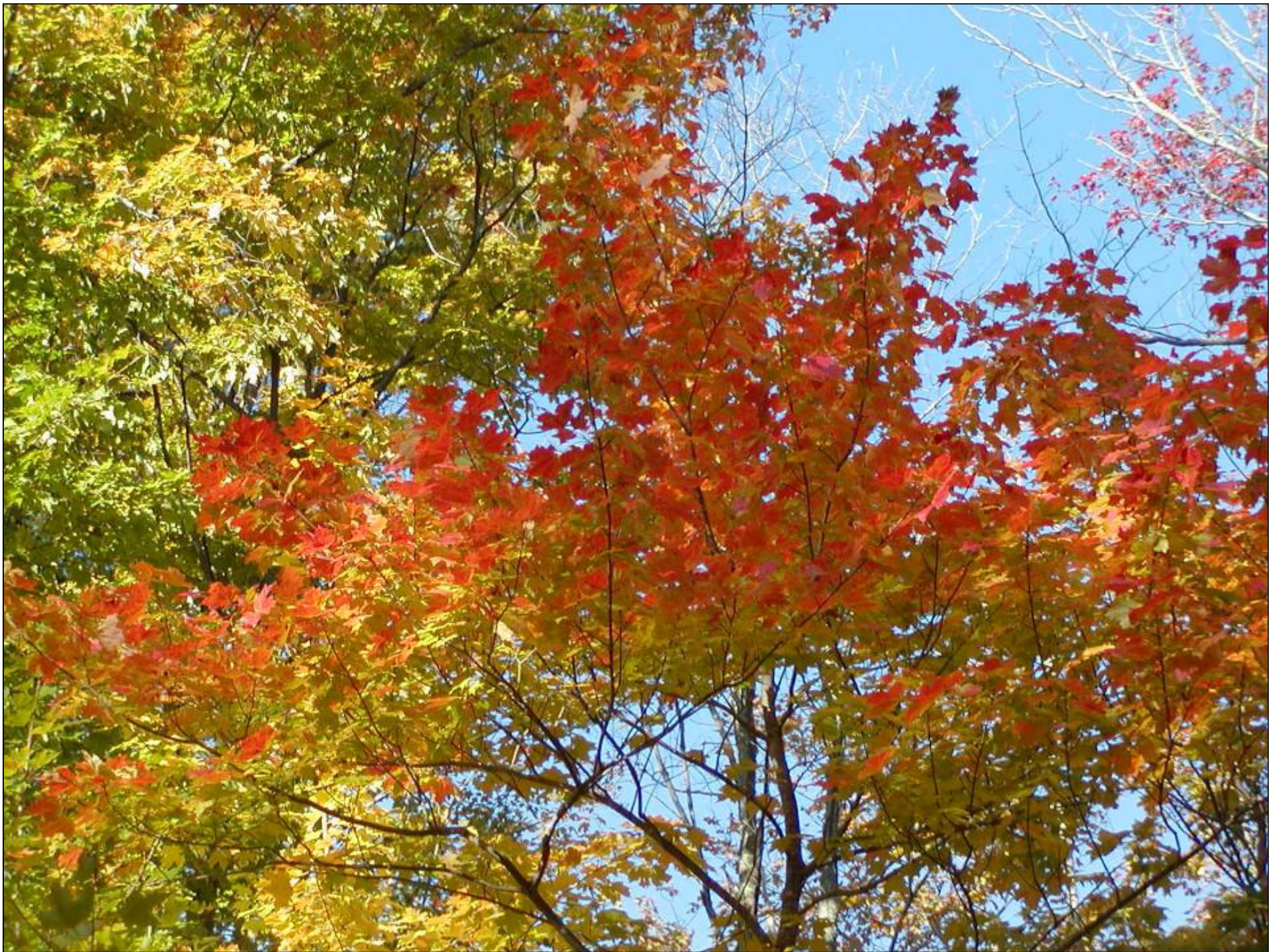




















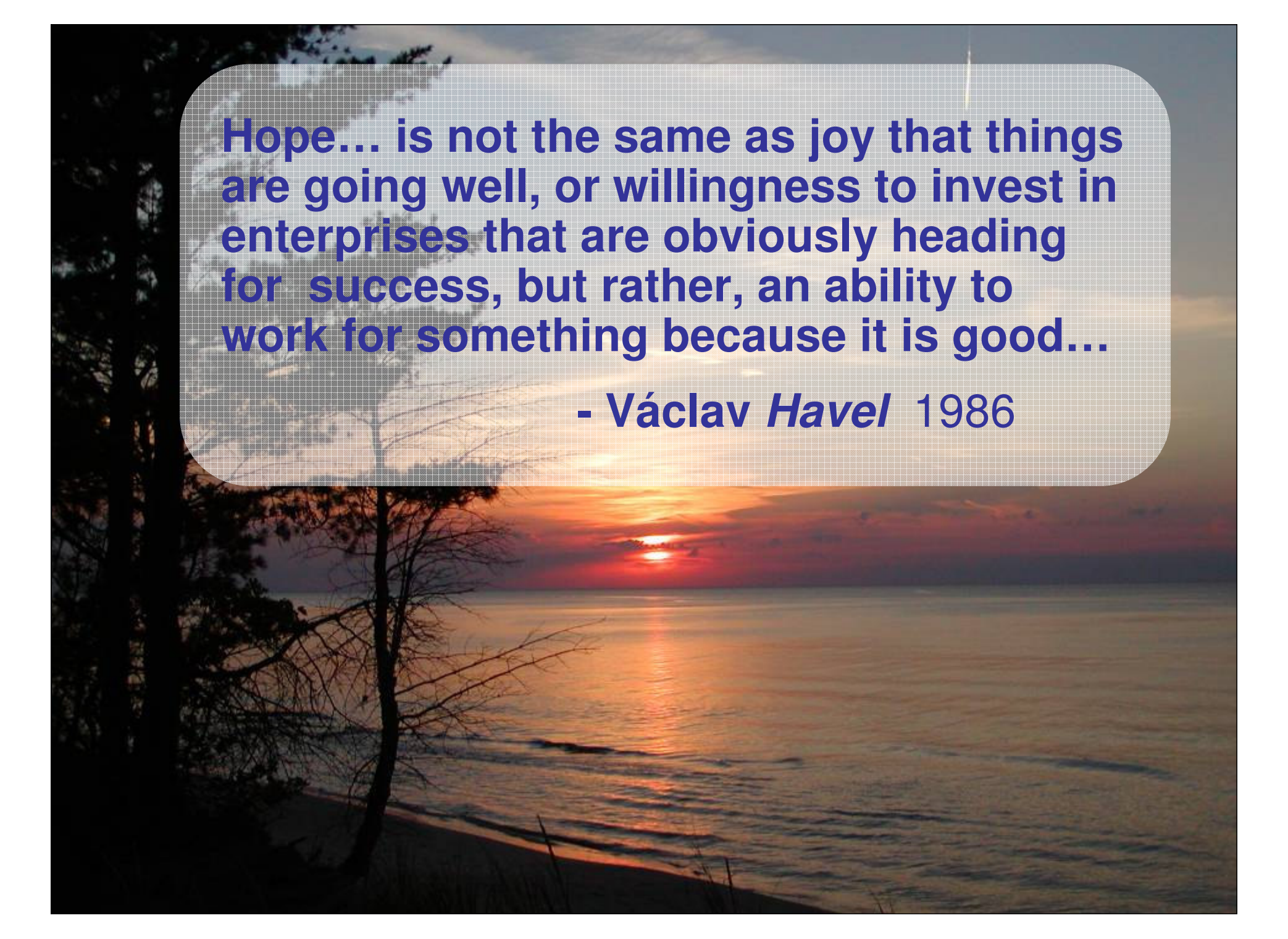






The Climate Change Challenge: Mobilizing to Save Civilization¹

- Global warming – melting ice, rising seas
- The end of oil, rising food prices
- Water tables dropping, lakes disappearing
- Disappearing forests, cropland and rangeland
- Disappearing fisheries, extinction of bird, amphibian and mammal populations
- Growing population, poverty, hunger, disease
- Increasing numbers of “failed states”, threatening world order
- “Tipping points” from which recovery is unlikely

A serene sunset scene over a large body of water. The sun is low on the horizon, casting a bright orange and red glow across the sky and reflecting on the water's surface. In the foreground, the dark silhouettes of trees and a sandy beach are visible against the bright light of the sunset.

Hope... is not the same as joy that things are going well, or willingness to invest in enterprises that are obviously heading for success, but rather, an ability to work for something because it is good...

- Václav Havel 1986

The Opportunities:

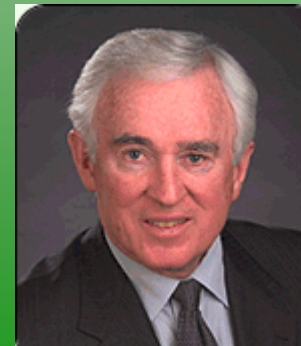
- 1 million plug-in, 150 mpg hybrid cars, built in American factories, by 2015
- Supply 25% of U.S. electricity from renewable sources by 2025
- Increase energy efficiency by 50% by 2030
- Weatherize one million homes annually
- Install millions of solar photovoltaic roofs and water heaters
- Invest \$150 billion to build a clean energy future and create five million new jobs

American College and University Presidents Climate Commitment

- A nationwide effort by American colleges and universities to address global warming
- 562 signatories as of 8/18/2008
 - Arizona State, Bryn Mawr, Case Western Reserve, Cornell, Clemson, Colorado State, Duke, Middlebury, Oberlin, Ohio State, Rice, U of Colorado, U at Buffalo, Syracuse, U of California, U of Wisconsin...

ACUPCC Michigan Signatories

- Albion College
- Delta College
- Grand Rapids Community College
- Grand Valley State University
- Jackson Community College
- Kalamazoo College
- Lake Michigan College
- Lansing Community College
- North Central Michigan College
- St. Clair Community College
- **Washtenaw Community College**



The ACUPCC Commitment

- Global warming is real and is largely caused by humans.
- Global emission of greenhouse gases must be reduced by 80% by 2050 or sooner.
- Colleges and universities must exercise leadership in their communities and throughout society
 - by modeling ways to eliminate global warming emissions
 - by providing the knowledge and the educated graduates that will help achieve climate neutrality.
- Campuses that address the climate challenge will
 - better serve their students
 - meet their social mandate to help create a thriving, ethical and civil society.

Develop a plan to achieve climate neutrality as soon as possible

1. Create a **task force** to guide and implement the plan, including staff, faculty, student, and administrator representatives.
2. Complete a **comprehensive inventory** of all greenhouse gas emissions.
3. Develop an **action plan** for becoming climate neutral
4. Make climate neutrality and sustainability a part of the **curriculum** for all students.

We are on our way to meeting the President's Climate Commitment

- Recycling
- Energy management
- LEEDs building standard
- Low carbon transportation
- Native plant landscaping
- Student Activities
- Environmental Committee
- Sustainability in the curriculum

Recycling

- Recycling totals for 2006:
 - 40 tons of mixed paper
 - 40 tons of cardboard
 - 4.7 tons of cans and bottles



- Technotrash' recycling – CDs, DVDs, tapes, ink jet cartridges, cell phones, transparencies

- Other recycling and reuse – Styrofoam, shipping boxes, pallets, lost clothing, computers, used equipment and furniture



Educating Students, Staff and Faculty



**STOP
THINK
RECYCLE!**

**HERE
CONTAINERS**

RECYCLE THESE ITEMS

MILK CARTONS	PLASTIC BOTTLES
JUICE BOXES (no straws)	Marked  or  on bottom
GLASS BOTTLES	<i>(Only bottle shaped plastics are recyclable. The mouth must be smaller than the base.) Please remove all lids</i>
ALUMINUM & STEEL	
Pop Cans	
Aluminum Cans	
Clean Foil	
Metal Jar Lids	
Clean Pie Tins	

DO NOT RECYCLE THESE ITEMS

- Styrofoam/Plastic Cups
- Plastic Utensils or Plates
- Containers that have held a toxic material
- Dirty Containers
- Yogurt containers
- Oil Containers
- Plastic Bags
- Plastic Lids

QUESTIONS?
Contact Barry Wilkins:
677-5312, blw@wccnet.edu



**Conserve Energy
Power Off**



Oh say, can you recycle

Join students all across America competing in RecycleMania, the ten-week recycling competition.

For more information please visit:  www.recyclemaniacs.org 

Energy Efficient Operations



- Adjusting thermostats (76 °F summer / 68 °F winter)
- Energy efficient variable speed pump and fan motors
- Energy efficient fluorescent lights and ballasts
- Waterless urinals and dual-flush toilets
- Turning off building and parking lot lights after hours
- Room occupancy sensors



Building to LEED standards

- Fitness Center – LEEDs Gold certified



- TI Building renovation – aiming for LEEDs Silver

CNN.com.

AMERICAN MORNING

Member Center: [Sign I](#)

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THE WEB



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Ana

UPDATED: 3:26 p.m. EST, February 5, 2007



Encouraging Low Carbon Transportation



...naked some financial services and parcel batches on the disabled list from the northern Plains across the Great Lakes.



Native Plant Landscaping

- Reduced pesticide use
- Improved water retention
- Increased biological diversity
- Reduced goose pollution



Zero Waste Events

- Cheers Picnic
- Your next event?



Student Activities



Phi Theta Kappa
service projects



Recycling Art Contest

**Environmental
Lecture Series
– Fall 2008**

(Please send students!)

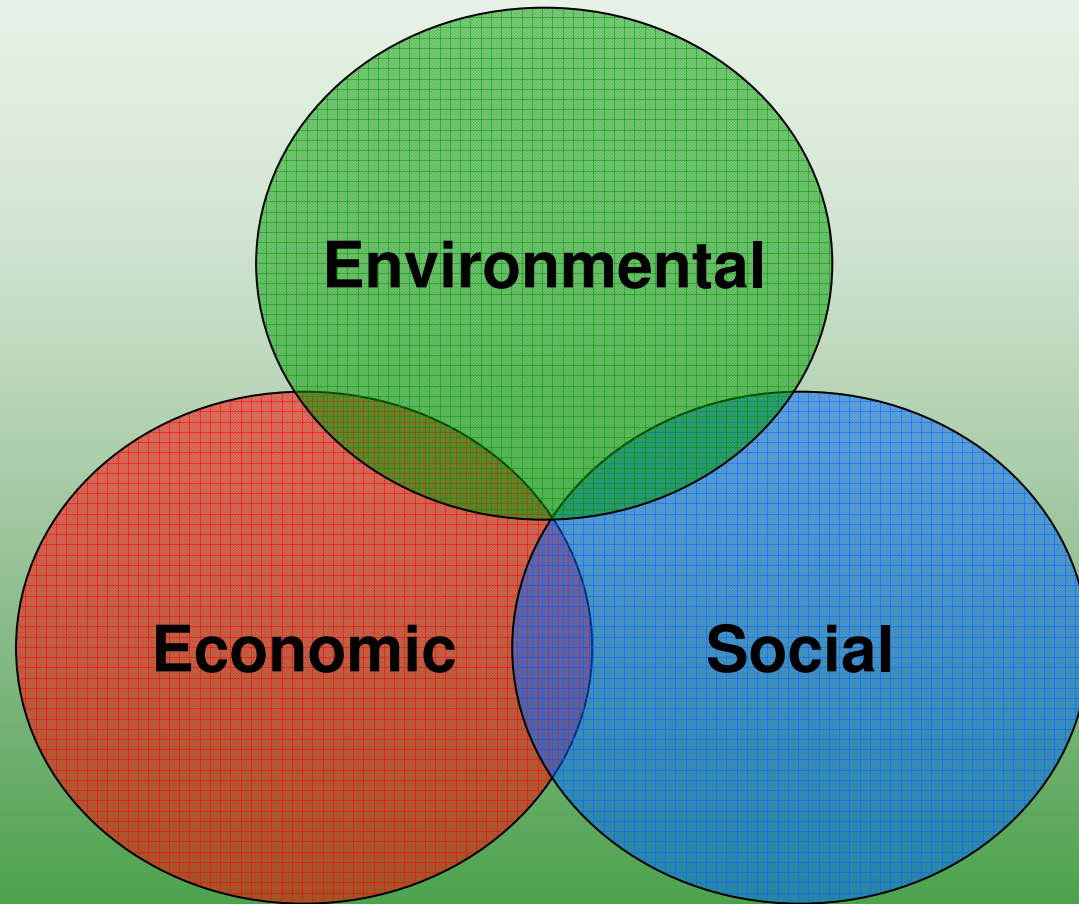


Earth Day at WCC

**Educating ourselves
and the community
since April 19, 2001**



Triple Bottom Line





Connecting with the Community



A Community Resource for Employment, Education and Enrichment Fall 2008 Volume 11 • Issue 3

CareerFocus™

CareerFocus

Career Watch

The Future is **BRIGHT GREEN**

Turns out that what's good for the earth is good for the economy

Green. That just might turn out to be the word of the decade. Green, as in tree-hugging, earth-loving, fossil-fuel-reducing, global-warming-fighting. Green, as in developing new ways to fill our human needs for energy, transportation, housing and food that don't damage the

with programs in everything from solar panel installation, to wind power technician to newer, greener versions of established professions such as engineering, business and agriculture.

Co-author James P. Hendrix predicts that the growth in green jobs will be equivalent to the tech sector

Renewable energy and environmental consciousness are affecting where the jobs and money flow in a number of significant ways. An economic analysis conducted by the Rand Corporation and the University of Tennessee estimates that 25 percent of the country's energy demand could be tapped from renewable energy sources by 2025.

Solar power also is taking off with many new opportunities for engineers to develop new products and for trained installers to put the products to work. Says Hen-

Partners in Sustainability

- WCC Bookstore

- Environmentally friendly products – recycled office supplies, water bottles, coffee mugs, cloth shopping bags
- Reducing plastic bags by asking customers if they want one
- Special displays of environmental books
- Environmental Committee participant



WCC Environmental Committee

- Maryam Barrie
- Rachel Barsch
- Keith Bearup
- Victoria Bennett
- John Bruckner
- Clarence Burgen
- Damon Flowers
- Philip Geyer
- Mary Gmeiner
- Ian Griffin
- Judith Hommel
- Melanie Jorgensen
- Bethany Kennedy
- Michael Koen
- Diane Laboda
- Gregory Laycock
- Laura Lyjak
- Dale Petty
- Mark Rabinsky
- Cheryl Ruszkiewicz
- Ronald Schebil
- Diana Sepac
- Eleanor Shelton
- Catherine Smillie
- Kathleen Stadtfeld
- Kathleen Strnad
- David Thomas
- Larry Whitworth
- Barry Wilkins
- **YOU !**

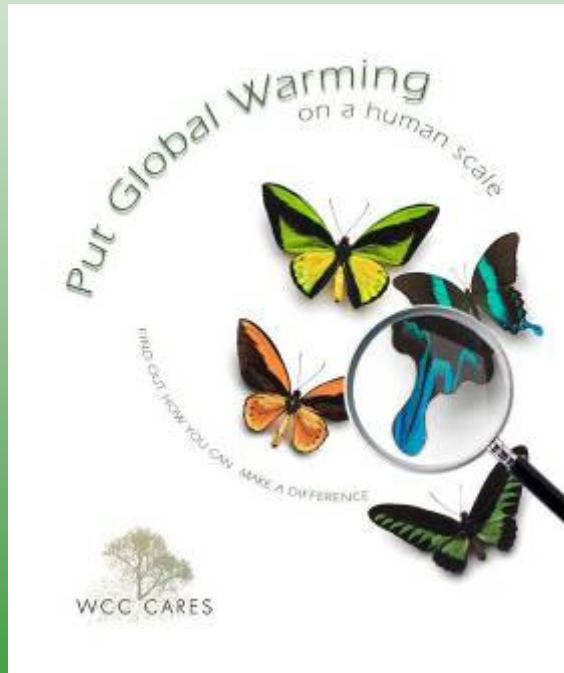


Integrating Sustainability into the Curriculum

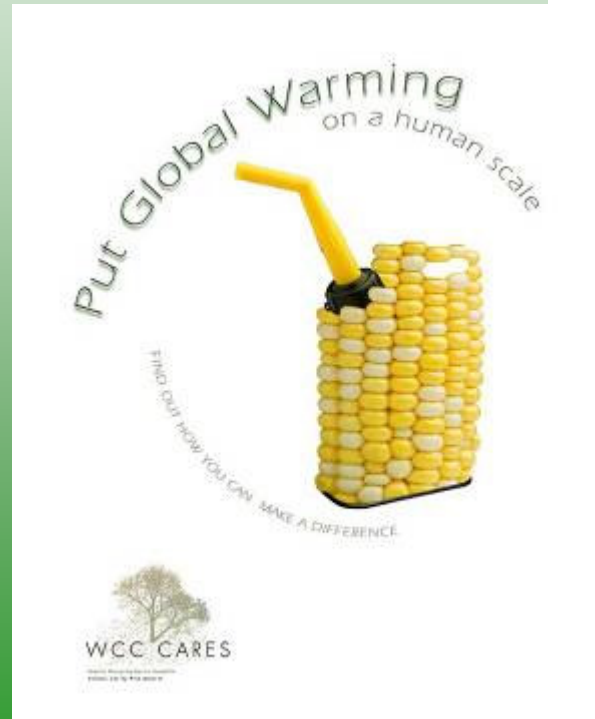
- Geothermal heating and cooling – HVAC
- Poetry on the environment – English
- Sound for Forever Wild concert – Music
- Nature photography exhibit – Photography
- Recycling metal scraps – Machine Tool
- Reusing manila folders for 3D models – CAD
- DNR fire maps for area calculations – Math
- Electric Motorcycle – Electronics
- Share what YOU are doing!



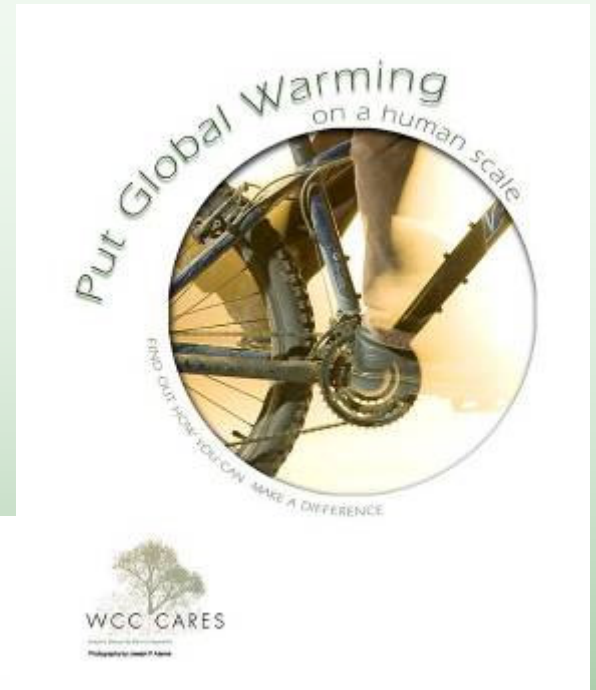
PHO 220 Advanced Studio Techniques



**Don Werthman &
Dennis Guastella**



Mike Bowdish



Joe Adams



**ELE 199
Residential Solar
Installation**

GLG 199 Earth Science Service Learning



BIO 267
Winter Field Study





**CUL 199 Local Organic
Food Preparation**

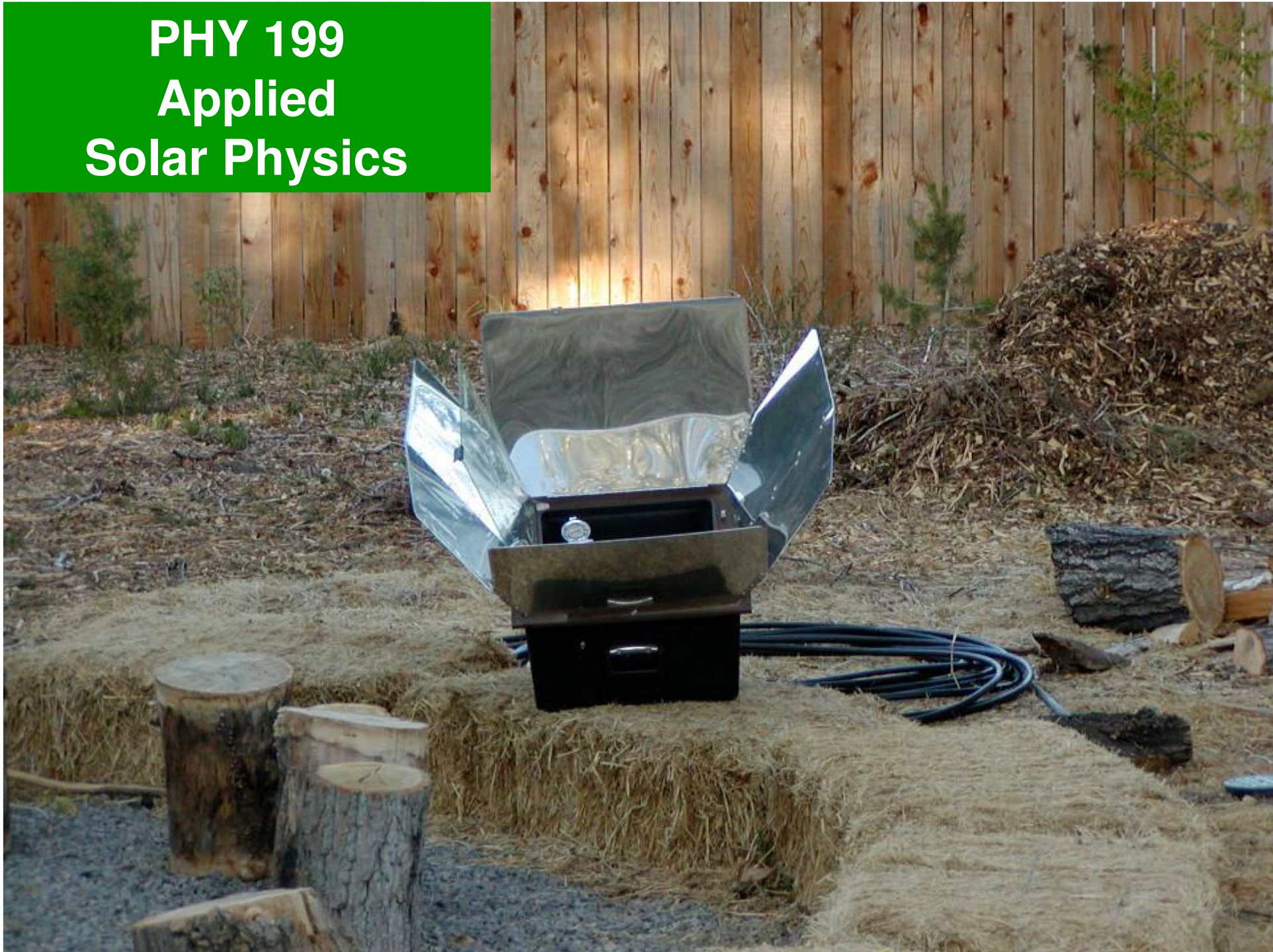
CCC 299 Solar Car Fabrication





ART 199
Color in Nature

PHY 199
Applied
Solar Physics



PTA 199
Outdoor
Therapeutic
Exercise





PSY 299
No Child
Left Inside

- Add Sustainability to the college Mission & Values

- Bike, bus or car pool to work

- Recycle my own stuff
What Can I Do? paper, cardboard, bottles, cans, Styrofoam

- Refuse extra bags and packaging

- Buy and use 100% post consumer recycled paper

- Make two-sided copies

- Reduce my document management
Print on both sides of paper. Print two-sided on each side

- Replace old printers with ones that support two-sided printing

- Re-use paper, envelopes, folders instead of buying new

- Use more electronic documents and less paper

- Turn lights and equipment off when I leave the room

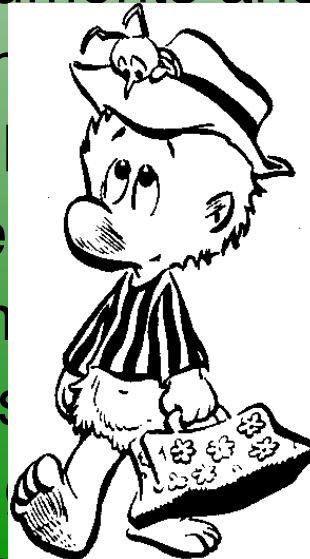
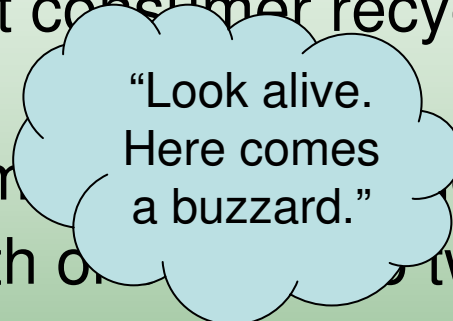
- Turn off or hibernate my computer when not in use

- Use energy saving mode

- Use a re-usable coffee mug

- Use waterless urinals / use less water when appropriate

- Talk about Climate Change with students and colleagues





“I am only one; but still I am one.
I cannot do everything; but still I can do something.
I will not refuse to do the something I can do.”

- Edward Everett Hale