

# PRAIRIE UNITARIAN UNIVERSALIST SOCIETY

2010 Whenona Drive, Madison 53711

<http://uuprairie.org>

Rev. Ralph Tyksinski, Minister

**Sunday, April 20, 2008**

Prelude – “The Earth is Rising”

Prairie UU Society Choir, Barbara Park, Director

Welcome – Rachel Long, President, Prairie UU Society

Opening Words – Rev. Ralph

(From the 2006 UUA Statement of Conscience)

Earth is our home. We are part of this world and its destiny is our own. Life on this planet will be gravely affected unless we embrace new practices, ethics, and values to guide our lives on a warming planet... We as Unitarian Universalists are called to join with others to halt practices that fuel global warming/climate change, to instigate sustainable alternatives, and to mitigate the impending effects of global warming/climate change with just and ethical responses.

\*Opening Hymn – #203 *All Creatures of the Earth and Sky*

Chalice Lighting - Rev. Ralph

*We light this chalice for Earth our home. Earth abundant, source of what was before we were and will be after we are gone. Each day we must hold out the chalice of our being to help in creating a world in which all people are assured a secure and meaningful life that is ecologically responsible and sustainable.*

Moment of Silent Meditation

## Joys and Concerns

Presentation- "Earth Day: Reducing the Carbon Footprint" - Ken Skog

Discussion

Offering

Offertory - Doleta Chapru

Introduction of Guests and Visitors

Prairie Announcements<sup>€</sup>

(Additional announcements are in your order of service.)

\*Closing Hymn #303 - *We Are the Earth Upright and Proud*

Closing Words - Ken Skog

Given our human capacity to reflect and act upon our own lives as well as the condition of the world, we accept with humility and determination our responsibility to remedy and mitigate global warming/ climate change through innovation, cooperation, and self-discipline. May we accept the challenge to undertake this work for the preservation of life on Earth." (2006 UUA Statement of Conscience)

Postlude - Doleta Chapru

\*Please stand

## Welcome

Welcome to our service! We are glad you are here. Please join us for coffee and fellowship after the service. Thanks to all who made this program possible.

## Announcements

**Prairie Fire** deadline is today. Please contact Dan Proud at 661-0776 or [admin@uuprairie.org](mailto:admin@uuprairie.org) or [prouds@tds.com](mailto:prouds@tds.com).

**Guest at Your Table** boxes will be collected through April 20.

**Volunteers** are needed to greet visitors, make coffee, bring flowers, and clean up after Sunday services. See Paula to sign up.

**Prairie Elders** will meet on Tuesday, April 22, at 1:30 p.m. at Oakwood West to discuss “Getting Your Legal Ducks in a Row”. See Prairie Fire for details.

**Film Group** will view *The Elephant Man* on Thursday, April 24, at 7:00 p.m.

**Spanish Speakers** will meet for potluck and conversation on Tuesday, April 29, at 6:30 p.m. at the home of Mary and Andy Somers, 4467 Crescent Rd. Anyone is welcome regardless of your level of proficiency in Spanish. For questions, rides, or directions, contact Rosemary Dorney at 238-4382.

**Humanist Union** will meet on May 11 to hear Christina Klock and Kathy Converse report on the 7th Annual International Bioethics Forum on the topic of evolution.

**Plan ahead** – Our annual retreat at Bethel Horizons is scheduled for September 5-7 this year, the weekend after Labor Day.

## Calendar

### **Sunday, April 20**

11:45 a.m. Board meeting

7:00 p.m. Meditation

### **Tuesday, April 22**

1:30 p.m. Prairie Elders meet at Oakwood West

### **Thursday, April 24**

7:00 p.m. Prairie Film Group views *The Elephant Man*

### **Friday, April 25 – Sunday, April 27**

Central Midwest District Assembly, St. Louis, MO

### **Sunday, April 27**

9:00 a.m. Choir rehearsal

10:00 a.m. “This I Believe” presented by Judy Skog, Bob Cape, and Rosemarie Lester

11:45 a.m. Congregational Review of Plan Part II

7:00 p.m. Meditation

### **Monday, April 28**

7:30 p.m. Housing & Property Committee meets

### **Tuesday, April 29**

6:30 p.m. Spanish Speakers potluck at the Somers' home

### **Sunday, May 4**

10:00 a.m. “The Music of What Happens” presented by Christina Klock

11:45 a.m. Spring Parish Meeting

7:00 p.m. Meditation

### **Sunday, May 11**

10:00 a.m. “Our Moms, Other Moms, and Apple Pie” presented by Rev. Ralph Tyksinski

### **Sunday, May 18**

5:00 p.m. Rachel Siegfried memorial service at Prairie

## **Stabilization wedges – actions that would each offset 1 billion tons of Carbon emissions by 2055.**

– S. Pacala and R. Socolow

7 wedges are needed to stabilize world CO<sub>2</sub> emissions at year 2000 levels

### **Increase efficiency and conservation**

1. Increase fuel efficiency of all passenger vehicles predicted for 2055 (2 billion) to 60 miles per gallon.
2. Increase mass transit use so miles traveled in each car is cut in half (from 10,000 to 5,000 miles per year)
3. Cut emissions by 25% in all new and existing buildings (space heating, cooling, water heating, lighting, electric appliances)
4. Increase efficiency of fossil based electric power production from 40% to 60% (allowing for doubling of electric power production) e.g. coal or natural gas

### **Carbon capture and storage**

5. Capture and store carbon from 800 large coal power plants or 1600 natural gas power plants e.g. pump CO<sub>2</sub> into geologic formations in the ground.
6. Capture and store CO<sub>2</sub> from processes that generate hydrogen (e.g. petroleum refining and fertilizer production). Generate 10 times more hydrogen for fuel and capture associated CO<sub>2</sub> (e.g. in geologic formations)
7. Capture and store CO<sub>2</sub> from 180 coal-to-liquid-fuel plants.

### **Fuel switching**

8. Switch to 1400 (1 billion watt) natural gas electric plants to replace coal-electric plants.

### **Nuclear Energy**

9. Add nuclear power plants to triple the world's current nuclear capacity.

### **Renewable Energy and Biostorage**

10. Add wind power to generate 30 times more electricity than today. About 2 million wind mills.
11. Add solar electricity arrays that cover two million hectares. About the size of the state of New Jersey.
12. Use wind power (electricity) to separate hydrogen from water to use as a vehicle fuel. This is ½ as efficient as using wind power to replace coal so would need 4 million wind mills.
13. Sustainably produce 30 times more biofuels from biomass than today.
14. Halt global deforestation. An additional wedge could be attained by planting new forests over an area the size of the contiguous United States.
15. Apply soil carbon management strategies to all the world's agricultural soils

## 7 among dozens of opportunities

- ❖ Reduce engine idling
- ❖ Reduce standby power use
- ❖ Faster adoption of compact fluorescents
- ❖ Adjust thermostat setting 2 degrees
- ❖ Lower water heater temperatures
- ❖ Maintain tire pressures
- ❖ Replace vehicle air filters more frequently

**Simple high impact actions to reduce carbon emissions –  
Thomas Dietz,  
Michigan State University**

Action	Plasticity	Emissions saved (million tons per year)
Engine idling	10% of drivers comply	6-10
Standby power	33% reduction	16-22
Compact fluorescents	300 million bulbs	12-37
Thermostat settings	33% of households	18-36
Water temperatures	50% of households	28-38
Tire pressure	33% of drivers comply	14
Air filters	25% of drivers comply	24
Total		118-181

## The Potential Impact of Behavioral Change

- ❖ 150 million tons of CO<sub>2</sub> by 2014
- ❖ Equivalent to:
  - ❖ Removing 26 million automobiles from the road, or
  - ❖ 25% of the reductions in the Lieberman-Warner Act, or
  - ❖ 75% of the new CAFÉ standards, or
  - ❖ 40% of a Pacala/ Socolow global stabilization wedge
- ❖ Fast, cheap and easy
  - ❖ C at \$10/ ton would allow investment of \$1.5 B in these efforts