

## Earth Week – Frostburg State University

April 20 – April 22, 2011

SCHEDULE of Events



Sponsored by FSU's Learning Green, Living Green (LGLG) Committee

**Wednesday, April 20, 2011**

### Presentations

**9am – 9:50am**

**Leadership Models to Promote Sustainability** - *Mr. McClellan, Ms. Sanders, FSU MGMT*

Significant change leadership via non-traditional approaches is necessary to promote sustainability and climate awareness. This presentation describes a model for promoting sustainability through adaptive change leadership.

**Green Art Education in Armenia** - *Dr. Rhodes, FSU Visual Arts*

The Tufenkian Foundation's Creative Art Centers expose youth to an environmental curriculum while developing their skills as artists. Pedagogical strategies unite ethics with aesthetics, resulting in outcomes to address the nation's immediate needs.

**Using Efficiency Technology to Reduce Energy Costs at Home and Work** - *Mr. Emerick, Allegheny Power*

Energy efficiency technology can be used to dramatically reduce energy consumption in homes and small businesses. Information on utility rebates and state and federal tax credits is presented.

**10am – 10:50am**

**Space Seed: The Promise - or Threat - of Directed Panspermia** - *Mr. Duncan, FSU ENGL*

Even if humans never travel beyond the solar system, we theoretically could populate the galaxy with life - including, in the long term, intelligent life - by launching single-celled organisms on colonization voyages. But should humans purposefully alter far-distant alien environments for eons to come?

**Green Restrooms, Green Learning** - *Ms. Keene, Evergreen Heritage Center*

Learn how solar energy and self-contained composting toilet technology can save 6600 gallons of water and 385 trees per person per year. Such solutions are being implemented at the Evergreen Heritage Center as part of an experiential service learning project.

**Harnessing the Power of the Sun with Organic Solar Cells** - *Dr. Norris, FSU CHEM*

This talk is an overview of organic solar cell technology for a general audience. Every day, the Earth receives more energy from the sun than humans can use in a year. Organic solar cells provide an inexpensive, lightweight, and flexible way to harness that power.

**Education for the Local Future** - *Dr. Russo, FSU GEOG*

Much emphasis in higher education in the past 20 years has been on preparing students to live and compete in a globalized world. From the perspective of a sustainable future, how might we prepare our students to live and cooperate in a localized world?

**11am – 11:50am**

**Prototype for Tidal Electricity Generation** - *St. Peter's School*

Students at St. Peter's School participated and placed 1st in a region-wide competition with a prototype on use of tides to generate electricity. Through the use of turbines, tides are a very powerful and often overlooked source of renewable energy.

**History of Earth's Atmosphere and Average Global Temperature** - *Dr. Doyle, FSU PHYS*

Millions of years ago, average global temperatures and CO<sub>2</sub> levels in Earth's atmosphere were much higher than they are today. Understanding climate change as it relates to natural atmospheric variations allows for evaluation of the evidence regarding human-induced global warming.

**Drilling for Energy in Marcellus Shale** – *Mr. Rotruck, Chesapeake Energy Corp, and Dr. Larivee, FSU CHEM*

This is a primer on the important aspects associated with drilling for natural gas in Marcellus Shale. This presentation balances the need to find a suitable energy source for the future and possible environmental consequences.

### **Sustainability and Stewardship from a Spiritual Standpoint – Rev. Dr. Zirlott, Ms. Marsh, FSU UCM**

Stewardship has transcendent implications in biblical scriptures and in modern society. With an exploration of stewardship and the link between faith and sustainability, UCM esteems to build a strong, diverse community for Christians and non-Christians alike.

#### **1pm – 1:50pm**

##### **Water Water Everywhere (Maybe Soon) Not a Drop to Drink Anywhere - Dr. Allen, FSU GEOG**

With rapid population growth and increasing demands for freshwater, risk of water shortage poses severe consequences on the environment and society. Unless our attitudes and practices change soon, the forecast for our civilization looks very dry.

##### **Compassionate Conviction: Women's Experiences in Activism - FSU Women's Studies Program**

This presentation explores women's activism related to animal rights, mountain top removal, and children's exposure to toxins.

##### **Educational Perspective on Sustainable Energy: The Danish Example - Dr. Hedegaard, FSU EDUC**

How does a nation change its attitude toward windmills and sustainable energy in general? In Denmark, wind already meets one-fifth of the population's total energy needs.

##### **Pennsylvania Energy Impact Analysis - Ms. Keech, The Nature Conservancy**

This presentation outlines a unique study by The Nature Conservancy evaluating projected habitat impacts from new energy development in Pennsylvania. Included in the discussion are conclusions about possible loss of forest, stream, and rare species habitat from wind and Marcellus shale gas development.

#### **2pm – 2:50pm**

##### **Economic Botany Presentations\* - Dr. Brosi and students, FSU ETBO**

Students in Economic Botany will present projects on Frostburg urban forestry, a dehydrator facility production, an online herbarium, a children's garden, and upland bog restoration.

*\*This double-session runs one hour and 50 minutes.*

##### **The Quest for Sustainable Communities - Dr. Bullamore, FSU GEOG**

Can cities and suburbs become sustainable in light of societal concerns for climate change? Explore the links between urban form, suburbanization, and sustainable planning.

##### **Ecotourism: Examples of Sustainable Tourism and Travel Initiatives - Dr. Buta, FSU RECR**

This paper covers the criteria used in establishing sustainable tourism operations. The social, environmental, and economic sustainability principles of ecotourism are covered.

##### **Using Different Means in Nature - Dr. Revennaugh, FSU MATH**

This presentation covers examples and explanations of the arithmetic, geometric, and harmonic means found in nature.

#### **3pm – 3:50pm**

##### **Forever Green: Sustainable Burials - Dr. Flinn, FSU PSYC**

"Green burials" are becoming an increasingly popular option in society, where individuals can choose to be buried in a natural setting, with none of the materials usually used in modern burial (exotic woods, concrete, toxic materials, etc).

##### **Portable Wind and Solar Power for Critical Infrastructures - FSU Renewable Energy Center**

A mobile wind and solar powered generation system could supply critical infrastructures needs should our electric grid become unavailable. Development of a private renewable energy business continuity center at FSU is also covered.

##### **Industry, Urbanization, and the Production of Noise, 1890-1920 - Dr. Wood, FSU HIST**

The noise resulting from urbanization and industrialization during the 20th century have profoundly shaped our feelings about noise in our environment. Ongoing tensions have led to calls for urban and industrial reform and an increasing interest in quieter spaces.

#### **4pm – 4:50pm**

##### **Frostburg Grows: How Does Your Garden Grow? - Mr. Plourde, AmeriCorps VISTA**

This proposed local greenhouse initiative aims to supply a large portion of FSU's produce needs, thereby reducing its carbon footprint. The design features will allow for year-round operation using minimal energy and resources.

**Energy Extraction and Production in Appalachia** - *Dr. Rogers Thomas and students, FSU SOCI*

This panel discussion explores the pros and cons of energy production in Appalachia. The presentation and its companion display feature topics of natural gas drilling, industrial wind production, and coal mining.

**6pm – 8pm**

**HOME Documentary** – *Sierra Student Coalition*

With visually stunning aerial footage from over 50 countries, Yann Arthus-Bertrand's film provides a stepping stone to further the call to action to take care of our HOME.

**DISPLAYS:** *LUC 1<sup>st</sup> and 2<sup>nd</sup> Floor Lobbies, 9am – 5pm, unless otherwise indicated*

**Prototype: Tidal Electricity Generation** - *Students from St. Peter's School*

A prototype display on use of tides to generate electricity.

**Our Sisters the Trees: Environmental 3D Design** - *FSU ART Students*

This piece celebrates photosynthesis and the interconnected relationship between humans and trees.

**Poster Session: Sustainability Initiatives at Evergreen Heritage Center** - *FSU GEOG Students*

Geography students showcase posters on sustainability initiatives at Evergreen.

**Where Does the Trash Go?** - *FSU BIOL Students*

Discusses where trash that is thrown away and collected goes, and the effect that it has on our surroundings. 2pm – 4pm only.

**Energy Extraction and Production in Appalachia** - *FSU SOCI Students*

An exploration of the pros and cons of energy production in Appalachia.

**Sustainability Studies Minor** - *FSU Sustainability Studies*

Students from SUST155 share materials about their experiential learning activities.

**Recycled Creation Station** - *FSU University Programming Council*

Students can create picture frames out of craft sticks and old puzzle pieces.

**Green Second-Hand Shopping** - *FSU RHA Going Green Committee*

Second-hand shopping is not only easy on the pocket book, but it's eco-friendly as well.

**Monitoring and Improving Air Quality** – *MD Dept. of the Environment*

The MDE will have information on the air pollution monitoring, planning, and control programs it administers to improve and maintain air quality.

**EARTH DAY EVENTS**

**Friday, April 22**

**Reduce, Reuse, Recycle Poster Contest** - *10am – 2pm, FSU Clock Tower, FSU ART*

Vote for your favorite environmental poster in person or on Facebook.

**Native Planting in Arboretum** - *3pm – 5pm, FSU Biology, IDIS Honors Seminar*

Students can plant native species in the Arboretum on Earth Day. Meet at the Gazebo near the stadium parking lot near the trail to Edgewood

For more information about any of the events presented here, visit

[www.frostburg.edu/lglg](http://www.frostburg.edu/lglg)





Wednesday, April 20, 2011

Lane University Center

Room #	Room Capacity	9am	10am	11am	12pm Lunch	1pm	2pm	3pm	4pm	5pm	6pm
LUC 232	275		<i>Harnessing the Sun w/ Organic Solar Cells</i> : Dr. Norris, CHEM	<i>Drilling in Marcellus Shale</i> : Dr. Larivee, Mr. Rotruck, CHEM		<i>Compassionate Conviction</i> : FSU Women's Studies Panel	<i>The Quest for Sustainable Communities</i> : Dr. Bullamore, GEOG	<i>Industry, Urbanization, and Noise</i> : Dr. Wood, HIST			<i>HOME Documentary Viewing</i> : FSU Sierra Club
LUC 111	70	<i>Green Art Education in Armenia</i> : Dr. Rhodes, ART	<i>Education for the Local Future</i> : Dr. Russo, GEOG	<i>Sustainability, Stewardship &amp; Spirituality</i> : FSU UCM		<i>Water Water Everywhere</i> : Dr. Allen, GEOG	<i>Economic Botany Presentations</i> : Dr. Brosi and students, ETBO		<i>Energy in Appalachia</i> : Dr. Rogers Thomas, SOCI		
LUC 113	65	<i>Leadership for Sustainability</i> : Dr. McClellan, Ms. Sanders, MGMT	<i>Space Seed &amp; Panspermia</i> : Mr. Duncan, ENGL	<i>Prototype for Tidal Electricity Generation</i> : St. Peter's School		Danish Perspective on Windmills: Dr. Hedegaard, EDUC	<i>Ecotourism</i> : Dr. Buta, RECR	<i>Portable Wind &amp; Solar Power Infrastructure</i> : Soysals, ENEE			
LUC 244	50	Reduce Energy Costs, Mr. Emerick, Allegheny Power	<i>Experiential Learning at Evergreen Heritage Center</i> : Ms. Keene, EHC	<i>History of Earth's Atmosphere</i> : Dr. Doyle, PHYS		<i>Pennsylvania Energy Impact Analysis</i> : Ms. Keeche, TNC	<i>Using Different Means in Nature</i> : Dr. Revenaugh, MATH	<i>Forever Green - Sustainable Burials</i> : Dr. Flinn, PSYC	<i>Frostburg Grows</i> : Mr. Plourde, Americorps VISTA		

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