



FOCUS THE **NATION** | **FORUM** **PROGRAM**

FEBRUARY 24, 2011

BALL STATE UNIVERSITY

ABOUT FTN

Focus the Nation is a national non-profit headquartered in Portland, Oregon. They believe that building a clean energy economy presents an opportunity to renew American prosperity and US leadership at the local and international level.

Focus the Nation is driven by a fierce commitment to empower today's youth with the imaginative, civic and systems-thinking skills to become powerful agents of change in their own communities.

Mission

Focus the Nation accelerates our transformation to a clean energy future by fostering connections between generations, and empowering young people through education, civic engagement, and action.

Focus the Nation 2011 at Ball State University has been organized with several goals in mind. The forum has been designed to educate participants about the scientific principles and possible solutions to the climate change problem. The intent is that this forum will actively engage participants in critical discussions about what our future could look like, and create a framework for closing the gap between science and action. This forum will begin an interdisciplinary discussion about the academic and societal response to these problems. Finally, ideas will be generated for solutions for BSU and individuals, with discussion on how to implement them.

FTN 2011

Students for a Sustainable Campus is a grassroots student organization at Ball State University committed to encouraging sustainability on campus. The group organizes events and holds meetings that provide a forum for discussion and action on issues related to sustainability at Ball State.



STUDENTS FOR A SUSTAINABLE CAMPUS

FEATURED SESSIONS

JESSE KHARBANDA HOOSIER ENVIRONMENTAL COUNCIL

Where will Indiana's jobs be in the next 20 years? Will Indiana still be a player in the world of manufacturing? How we shape energy policy in Indiana has huge consequences for Indiana's future economy. (And the future of Indiana's environment and the planet's climate). Get educated about the great energy issues facing our state, and specific ways that you can make an impact on Indiana's energy future.

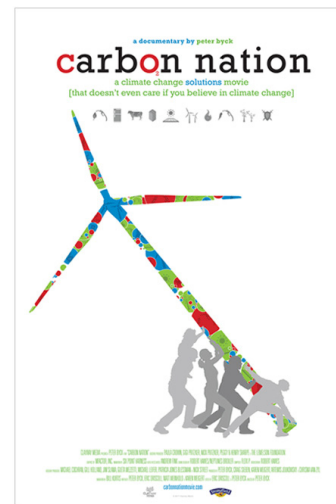
Jesse Kharbanda is the Executive Director of the Hoosier Environmental Council (HEC), Indiana's largest environmental policy organization; he oversees HEC's strategic and program development, legislative initiatives, and outreach to key stakeholders, elected officials, and members of the media. Kharbanda previously worked on energy policy at the Environmental Law and Policy Center in Chicago. Kharbanda has a graduate degree in development economics from Oxford University and undergraduate degrees in economics and environmental studies from the University of Chicago. Kharbanda was recently named one of the Indianapolis Business Journal's 40 Under 40.



JIM LOWE BALL STATE

Ball State University is converting its campus from a coal-fired steam boiler district heating system to a ground source geothermal district system that can produce simultaneously hot water for heating and chilled water for cooling. We will discuss the current Ball State University heating and cooling operation and explain how the new geothermal heating and cooling system is being implemented.

Jim Lowe is the Director of Engineering, Construction and Operations for Ball State University.



Carbon Nation, produced by Peter Bryck, is an optimistic, solutions-based film, tackling the issues of climate change. It seeks to answer questions such as: how do we boost the economy, increase national and energy security, and contribute to environmental sustainability?

KEENAN GIBBONS**LANDSCAPE ARCHITECTURE****1:20-1:50 ROOM 305*****Title: A Case Study of Sustainable Infrastructure for the 21st Century: Wind, Water, Sun, and Recreation***

The project was undertaken for the statewide Indiana initiative Safe Routes to School, during Fall 2010. Safe Routes to School looks at contextual conflicts surrounding public schools in terms of accessibility and safe pedestrian passage for students; it mitigates fossil fuel dependence, encourages recreational transportation, and reveals opportunity for sustainable infrastructure. The case study focuses on the area around Northside Middle School in Muncie, IN. It demonstrates the potential for sustainable infrastructure when accommodated through enhanced recreational connectivity and streetscapes. Conventional infrastructure is radically reoriented for harvesting solar energy for powering crosswalks, harvesting natural and traffic-generated wind energy to power traffic signals and streetlights, and redefining blighted streetscapes to collect stormwater runoff to enrich aesthetics, promote recreation, and ease existing sewer demands.

1:20-1:50 ROOM 310A CATHERINE AURAH**NATURAL RESOURCES & ENVIRONMENTAL MANAGEMENT*****Title: Assessment of Plastic Bag Waste Management Methods in Nairobi to Promote Sustainability***

This study examines the suitability of current methods of plastic bag waste management in Nairobi, Kenya in promoting sustainable development. It further evaluates initiatives by government agencies and businesses to change consumer behavior regarding the use of plastic bags in line with sustainable development principles. The research questions addressed include: what are the major types of solid wastes produced in Nairobi city; what are the causes of plastic bag waste pollution; how suitable are the current methods of plastic bag waste management in promoting sustainability; how suitable/applicable are the Government's regulatory mechanisms on solid waste management in Kenya; what are the perceptions of the public toward management of plastic bag wastes?

2:50-3:20 ROOM 303**EMERGING GREEN BUILDERS**

A presentation and discussion of the group's involvement ranging from the campus to the national scale. A brief overview of design principals pertaining to environmental awareness also will be presented.

2:50-3:20 ROOM 305**BALL STATE ENERGY ACTION TEAM****FACILITIES PLANNING & MANAGEMENT*****Title: The Nuts and Bolts of a Residence Hall Energy Challenge***

2:50-3:20
ROOM 310B

MATT ADAMS, RYAN PRESTON, BRENNAN MAHER

LANDSCAPE ARCHITECTURE: DESIGN-BUILD STUDIO

Title: *John M. Craddock Wetland Nature Preserve – Clean Energy, Clean Water and Environmental Education*

Students in Landscape Architecture's Design-Build program have been working over the past five years, along with many other community 'partners' in Muncie, to design, build and enable environmental education opportunities at the newly dedicated John M. Craddock Wetland Nature Preserve. The 30-acre preserve is located on the near-east side of Muncie adjacent to the White River. The student teams have designed and constructed outdoor class rooms, boardwalks, learning stations, and interpretive signs to support community school environmental education curricula. The project endeavors to employ sustainable design principles in material selection (renewable and recycled); pedestrian and bicycle-friendly arrival spaces; and low-carbon-producing construction methods.

2:00-2:40 ROOM 305

JOEL MYNSBERG LESLIE PERRIGO MEAGAN TUTTLE

DEPARTMENT OF URBAN PLANNING

Title: *Green Cities*

Students from Scott Truex's Alternative Communities class are using the SustainLane rating criteria to research the "green" initiatives of several US cities. SustainLane evaluates 50 US cities on issues such as: air & water quality, energy & climate policies, availability of mass transit, local food & agriculture, and planning & land use. Three students will present information on the "green" initiatives of Austin, TX, Memphis, TN, and Columbus, OH. These cities can provide an example to communities across the United States as they begin to embrace green design and environmental action.

ALLIE KREGERS AMY SPERBACK JODI WINGER

BUILDING BETTER COMMUNITIES

Title: *Global Reporting Initiative*

BSU's Building Better Communities immersive learning program provides students the opportunity to work with real businesses to solve real world problems. In this case, six students worked with the University to create a sustainability report using the Global Reporting Initiative guidelines. The report includes three main sections in social, environmental, economic issues. It also shows comparison to the STARS sustainability report which Ball State University does as members of the Association for the Advancement of Sustainability in Higher Education (AASHE). The presentation will include a synopsis of the report and further discussion on what it is and why it is important. In coming weeks the report will be published as an official University report on the GRI website.

2:50-3:20
ROOM 310A

9:45-10 BALLROOM

RANDY HOWARD

VP BUSINESS AFFAIRS
TREASURER

Title: *Introduction to Focus the Nation*

Dr. Howard oversees all finance and business services, state and federal government relations, human resources, internal audit, auxiliary services, facilities master planning, building construction, and facilities management. He has a B.S. in Chemistry and Mathematics, M.S. in Operations Research from the Air Force Institute of Technology, and a doctorate in business administration (corporate finance). During Dr. Howard's twenty years of service in the military, he held numerous positions including tours as an assistant professor at the Naval Postgraduate School, chief financial officer for the United States Air Force Academy, comptroller squadron commander for Ellsworth Air Force Base, and senior financial economist for the Deputy Assistant Secretary of the Air Force for Cost and Economics.

11-11:40 ROOM 303

BOB KOESTER

PROFESSOR OF ARCHITECTURE,
CERES, COTE

Title: *Institutionalizing Sustainability: From the Ground Up*

This presentation will review the utility and complications of leveraging the many emerging national organizational resources, program plans, guidelines and burgeoning scoring/rating systems in the development and expansion of our ongoing work. Included will be a description of: the work of our Council on the Environment (COTE); implementation of ACUPCC; application of STARS; and installation of our Ground-source-geothermal district heating and cooling system -- now under construction -- which will eliminate on-campus coal-fired combustion and cut 85,000 tons of Scope 1 GHG emissions.

BALL STATE

11-11:40 ROOM 305

GWEN WHITE

DEPARTMENT OF ACCOUNTING

Title: *Sustainability Reporting*

This session is about the importance of sustainability reporting and how it benefits an organization interested in sustainability. The first-ever GRI report generated by a team of Ball State students will be discussed.

11-11:40 ROOM 310A

JOHN VANN

MILLER COLLEGE OF BUSINESS
SSC FACULTY ADVISOR

Title: *Climate Basics*

An examination of the relationship between combustion of fossil fuels and the concentration of carbon dioxide in the atmosphere; the relationship between fossil fuel concentrations in the atmosphere and absorption of infrared radiation emitted from Earth; and the relationship between absorbed infrared radiation and global warming -- a plea for getting off the fossil fuel diet.

REPRESENTATIVES

11:50-12:20 ROOM 305

LISA DUNAWAY

**INSTRUCTOR OF URBAN PLANNING
SENSIBLE ECOLOGY, LLC**

Title: *The Importance of Biodiversity*

What is biodiversity? Why do we need it? Having robust biodiversity in our ecosystems helps to ensure a healthy and sustainable future for both nature and humans. This presentation will cover the importance of biodiversity and what everyone can do to contribute.

2-2:40 ROOM 305

NWF WEBINAR

JIM LOWE PRESENTING

Title: *Geothermal on Campus*

This webinar will feature three campuses, Ball State University (IN), Lipscomb University (TN), and Saint John's University (MN), highlighting how campuses can save money and prevent pollution through geothermal energy projects. This will include both geothermal energy plants and earth-integrated building practices. This will also feature NWF's new guide "From the Ground Up - Tapping the Earth for Clean, Efficient Sources of Heating and Cooling."

JOHN MOTLOCH

**PROFESSOR OF LANDSCAPE ARCHITECTURE,
LAND DESIGN INSTITUTE**

Title: *Energy, the New Economy & Community Change*

This talk addresses clean energy as part of a broader boundary of concern. This broader boundary sees a sustainable future as dependent upon clean energy, clean production, and accelerated shifts to the clean economy that promotes healthy systems. The focus is on the city as the political entity that can change the quickest. It explore ways to accelerate community shifts from the old economy based on continuous growth through accelerated resource consumption and waste generation to the new economy based on continuously increasing efficiency of resource utilization and waste reduction.

JENNIFER PALILONIS

DEPARTMENT OF JOURNALISM

Title: *Chokepoint: A collaborative effort to cover the water and energy crisis in the U.S. and China*

More than 20 students from the Department of Journalism have been collaborating with Circle of Blue, a non-profit journalism group covering water news around the world. Students have already published more than a dozen interactive information graphics on the Circle of Blue website that range in topic from biofuels to the distances water travels to get to some of the world's driest cities. The Chokepoint team will share some of the original reporting they have contributed to, as well as talk about the value of their collaboration with the world's leading source of water news.

11-11:40 ROOM 310B

2-2:40 ROOM 310B

11:50-12:20 310A

2-2:40 ROOM 303

JAMES EFLIN

PROFESSOR OF NAT. RESOURCES &
ENVIRONMENTAL MANAGEMENT

Title: *Perils of Affluenza*

Introduce concepts of the environmental impacts that stem from consumerism. These will be described as problems that can be labeled “affluenza” and are very much contagious. The talk will point towards ways to be “cured” of this contagious condition.

GUY CROWDER

STUDENT OF BIOLOGY & CLASSICAL
CULTURE

Title: *Analysis of Atlantic Hurricane Trends and the Possible Correlation between Hurricanes and Ocean Temperature*

Discussion of the Atlantic hurricane trends from 1900-2009 in an attempt to understand if climate change is truly impacting the oceans. Will also discuss ocean patterns to identify a possible correlation between sea temperatures and hurricanes.

11:50-12:20
ROOM 303

ANNETTE ROSE

DEPARTMENT OF TECHNOLOGY
BALL STATE UNIVERSITY

BARB STEDMAN

HONORS COLLEGE
BALL STATE UNIVERSITY

DISCUSSION PANEL

FACILITATED BY:
JESSE KHARBANDA &
LAURA ANN ARNOLD

Title: *2011 Indiana Legislative Session: Making an Impact*

The political winds dramatically shifted in November 2010, and clean energy advocates are seeing the reverberation of those changes in the 2011 legislative session. Legislators, sympathetic to -and/or funded by - coal and nuclear interests are seeking to enshrine a series of policies that will hurt the growth of the renewable energy sector. Attendees can learn about ways that they can make an impact.

Laura Ann Arnold is the President and Founder of Indiana Distributed Energy Advocates, Inc. She is a Founder, Past President, and Board Member of the Indiana Renewable Energy Association, a state chapter of the American Solar Energy Society. She is a co-founder and past President of the Indiana Solar Energy Coalition as well as the past Executive Director of the Indiana Solar Energy Industries Association (InSEIA). She is a native of St. Louis and a graduate of Purdue University in Natural Resources-Environmental Science.

Title: *Muncie's Living Lightly Fair: Engaging the Community*

How might we inspire residents of East Central Indiana to adopt energy conservation and sustainable living practices?

This session will explore opportunities to get involved with Living Lightly, a resource fair to be held September 10, 2011, on the Minnetrista campus in Muncie, Indiana.

11-12:20 CARDINAL HALL

11:50-12:20
310B

DEBRA CARPENTER

DELAWARE COUNTY SOIL AND WATER CONSERVATION DISTRICT

Title: *Sustainability in Agriculture*

Energy from the farm and reducing energy use through conservation farming systems is the future of American agriculture. Farms supply food, biofuel feedstock, green space, and carbon sequestration more than any other industry. Protecting agricultural lands from development will become urgent as world population grows and the demand for food and energy rises.

1:20-1:50 ROOM 310B

PHILIP TEVIS

FLATLAND RESOURCES, LLC

Title: *Hypoxia in the Gulf of Mexico: Muncie's Buck Creek Connection*

The White River Watershed Project has studied non-point source pollution in several watersheds in Delaware Cty for over 10 years. Many discoveries have been made, with sediment being a significant problem, especially in the Buck Creek watershed. Through the use of sustainable agriculture, the source of sediment, the soil that floats to the Gulf of Mexico, has a surprising source.

1:20-1:50 ROOM 303

BARRY BANKS

RED TAIL CONSERVANCY

Title: *Land Conservation*

Land conservation provides local options for staycations, outdoor recreation, and volunteering.

1:20-2:40 CARDINAL HALL

JIM POYSER

NUVO NEWSWEEKLY &
CO-FOUNDER APOCADOCs

MICHAEL JENSEN

CO-FOUNDER APOCADOCs

Title: *Green Journalism and Climate Change on the Web*

NUVO Newsweekly is a 20 year old alternative newsweekly, with social justice, arts & entertainment, and music as its focus. Jim Poyser joined the editorial staff of NUVO Newsweekly over 16 years ago, and has helped the publication grow greener over the years, from printing on recycled paper, to reducing waste and energy in the building. He is co-founder of the world's first entertainment site for climate collapse, The ApocaDocs. Jim lives in Indianapolis where he rides his bike pretty much every day of the year.

Michael Jensen has been involved with digital scholarly publishing since before color monitors, consults widely, and works for a major science organization in digital communications. His opinions as co-founder of the world's first entertainment site for environmental collapse, The ApocaDocs, are entirely his own. Michael now spends most of his time on a small farm in rural Nova Scotia.

ApocaDocs is the world's first entertainment web site for climate collapse. College buddies Michael and Jim are attempting to "humor the horror," giving the heaviest subject imaginable – our quickly deteriorating environment – a light touch.

COMMUNITY PARTICIPATION

A HUGE THANKS TO THE FOCUS THE NATION TEAM

This event would not have been possible if it weren't for the countless hours these Students for a Sustainable Campus members contributed! Thank you for your dedication to helping FTN Empower a Generation to Focus the Nation!



BOBBY SLAVENS

ALLIE HUBERT MEAGAN TUTTLE

RYAN SAGAR COLIN BETTS

ABBY RONDOT STEPHANIE WEYER

JOHN VANN VIVIAN BOGUE

Faculty Adviser

ALLIE KREGERS

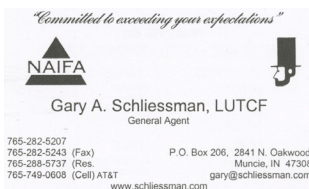
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THIS FORUM WAS ORGANIZED BY:



WE WOULD LIKE TO THANK ALL OF OUR SPONSORS AND OTHERS WHO HELPED MAKE THIS EVENT POSSIBLE:

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BSU CENTER FOR ENERGY RESEARCH/EDUCATION/SERVICE
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PROGRAM DESIGNED BY MEAGAN TUTTLE