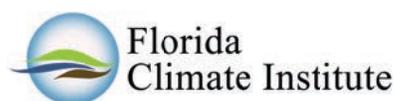


# SUSTAINING ECONOMIES AND NATURAL RESOURCES IN A CHANGING WORLD: KEY ROLE OF LAND GRANT UNIVERSITIES

APRIL 2-3, 2013

REITZ UNION | UNIVERSITY OF FLORIDA | GAINESVILLE, FL



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# Welcome

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We are pleased that you have joined us to celebrate the 150th anniversary of the Morrill Act of 1862, which provided states with the land that made it possible to establish Land Grant universities. This legislation was the first Federal aid to higher education and it gave people in America the opportunity to attend college and learn about agriculture and mechanical arts (now known as engineering). The University of Florida is proud of its heritage as a land-grant university (LGU) and of the great number of successes in fulfilling our mission to teach, provide research, and service.

The goals of this symposium are to celebrate past Land Grant University (LGU) successes and explore research and extension directions that will help the University of Florida and its partners address future challenges to Sustaining Economies and Natural Resources in a Changing World. Our objectives are:

- Better characterize the major challenges to sustaining economies and natural resources
- Identify state, national, and international research priorities needed to address the challenges
- Cultivate cooperation amongst academic, industrial, and governmental partnerships
- Ensure that our work continues to be relevant to society

We are proud to present speakers from both public and private entities bringing together researchers, industry leaders, and agencies to create dialogue which will help address key challenges and suggest visionary research and extension programs that should be targeted to achieve sustainable solutions. We want to emphasize our universities' important roles in global issues, not just local or US-centric ones.

We hope to honor the legacy of the Morrill Act by recognizing that LGUs played key roles in the scientific discoveries and technological advances that have shaped our state, nation, and world. Looking through that historical lens, together we will help launch UF and other LGUs into the next 150 years.

Sincerely,

**Dr. James W. Jones**

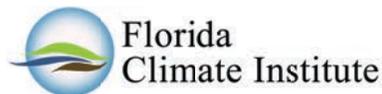
Distinguished Professor, Ag and  
Biological Engineering and  
Director, Florida Climate Institute

**Dr. Jack Payne**

Senior Vice-President  
for Agriculture and Natural  
Resources

**Dr. Kirk Hatfield**

Professor and Director,  
Engineering School of  
Sustainable Infrastructure  
and the Environment



# Agenda: Sustaining Economies and Natural Resources in a Changing World: Key Role of Land Grant Universities

Reitz Union | University of Florida | April 2-3, 2013

Tuesday, April 2	
AM	
Grand Ballroom	
7:30am	Continental Breakfast and Registration/Check-in
8:00-8:25am	<b>Opening Session: Welcome and Introductions:</b> <ul style="list-style-type: none"> <li>• Dr. James Jones, Event Co-Chair, Distinguished Professor and Director of the Florida Climate Institute</li> <li>• Marsha Stanton, Industry Relations Manager at Monsanto</li> <li>• Dr. Kirk Hatfield, Event Co-Chair, Professor and Director of the Engineering School of Sustainable Infrastructure &amp; Environment</li> <li>• Dr. Jack Payne, Senior Vice President for Agriculture and Natural Resources</li> </ul>
8:25-8:35	<b>The Morrill Act: Context and Vision:</b> <ul style="list-style-type: none"> <li>• Steve Merritt Seibert, Co-Founder TriSect LLC, Senior Strategic Advisor to UF/IFAS</li> </ul>
8:35-9:20am	<b>Opening Address:</b> <ul style="list-style-type: none"> <li>• Dr. John Ingram, Natural Environment Research Council (NERC) Food Security Leader, University of Oxford, UK</li> </ul>
9:20-10:15am	<b>Opening Presentation:</b> <ul style="list-style-type: none"> <li>• Dr. Sara Pryor, Provosts Professor of Atmospheric Science, Associate Vice Provost for Faculty and Academic Affairs, Indiana University</li> </ul>
10:15-10:30am	Break
10:30am-12:00pm	<b>Session I: Food Security and Ag Production:</b> <ul style="list-style-type: none"> <li>• Dr. Molly Jahn, Former Deputy and Acting Undersecretary of Agriculture, Professor in the Laboratory of Genetics and Department of Agronomy, Center for Sustainability and the Global Environment, University of Wisconsin-Madison</li> <li>• Dr. Fred Kirschenmann, Distinguished Fellow for the Leopold Center for Sustainable Agriculture, Iowa State University and President of Stone Barris Center for Food and Agriculture in NY</li> <li>• Dr. David McClary, DVM, Senior Technical Dairy Consultant, Elanco Animal Health</li> </ul>
PM	
Grand Ballroom	
12:00-1:30pm	<b>Lunch with Keynote Speaker:</b> <ul style="list-style-type: none"> <li>• Dr. Dave Gustafson, Director, ILSI-RF Center for Integrated Modeling of Sustainable Agriculture &amp; Nutrition Security (CIMSANS)</li> </ul>
1:30-2:50pm	<b>Session II: Energy:</b> <ul style="list-style-type: none"> <li>• Dr. Sam Baldwin, Chief Science Officer at the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy</li> <li>• Dr. Brent Shanks, Mike and Jean Steffenson Professor in Chemical and Biological Engineering and Director of NSF's Engineering Research Center for Bio-renewable Chemicals at Iowa State University</li> </ul>
2:50-4:10pm	<b>Session III: Infrastructure and Transportation:</b> <ul style="list-style-type: none"> <li>• Tim Jackson, PE, Senior Principal Planner, Kittelson &amp; Associates, Inc. Transportation Engineering, Orlando, FL</li> <li>• Dr. Josias Zietsman, Head of the Environment and Air Quality Division at Texas A &amp; M Transportation Institute (TTI)</li> <li>• Dr. Blair Feltmate, Associate Professor in the Faculty of Environment, University of Waterloo</li> </ul>
4:10-4:20pm	Break

4:20-5:30pm	<b>Breakout/Panel Sessions:</b> <b>Food Security and Ag Production – Auditorium</b> <b>Panelists in addition to speakers:</b> <ul style="list-style-type: none"> <li>• Dr. Ken Boote, Professor Emeritus in Agronomy, UF/IFAS</li> <li>• Dr. Walter Bowen, Director of International Programs in UF/IFAS</li> </ul> <b>Moderator:</b> <ul style="list-style-type: none"> <li>• Dr. Ken Quesenberry, Interim Chair of Agronomy, UF/IFAS</li> </ul>		
	<b>Energy – Salon D</b> <b>Panelists in addition to speakers:</b> <ul style="list-style-type: none"> <li>• J.L. Martinez, Sr. Director Office of Clean Energy, Florida Power &amp; Light Company</li> <li>• Dr. Gary Peter, Professor, School of Forest Resources and Conservation, UF/IFAS</li> <li>• Patrick Sheehan, Executive Director, Office of Energy, Florida Department of Agriculture and Consumer Services (FDACS)</li> </ul> <b>Moderator:</b> <ul style="list-style-type: none"> <li>• Dr. Jennifer Curtis, Interim FESC Director, Associate Dean for Research, College of Engineering, Distinguished Professor of Chemical Engineering, UF</li> </ul>	<b>Infrastructure and Transportation – Salon H</b> <b>Panelists in addition to speakers:</b> <ul style="list-style-type: none"> <li>• Jim Wood, Director of the Office of Policy Planning, Florida Department of Transportation (FDOT)</li> <li>• Dr. Ruth Steiner, Associate Professor; Director: Center for Health and the Built Environment, Department of Urban and Regional Planning, UF</li> </ul> <b>Moderator:</b> <ul style="list-style-type: none"> <li>• Dr. Kirk Hatfield, Professor and Director of the Engineering School of Sustainable Infrastructure and Environment, UF</li> </ul>	
5:30-8:00pm	Poster Reception in Grand Ballroom		
<b>Wednesday, April 3</b>			
<b>AM</b>			
<b>Grand Ballroom</b>			
7:30am	Continental Breakfast		
8:00-9:45am	<b>Session IV: Wildlife and Natural Systems Management:</b> <ul style="list-style-type: none"> <li>• John Pait, Sr. VP for Sales, Marketing, and Product Development for ArborGen</li> <li>• Dr. Kier Klepzig, Assistant Director, Southern Research Station, USDA Forest Service</li> <li>• Dr. Karl Havens, Director, Florida Sea Grant Program, Professor in the School of Forest Resources &amp; Conservation, UF/IFAS</li> <li>• Dr. Thomas Eason, Deputy Director, Division of Habitat and Species Conservation, Florida Fish and Wildlife Conservation Commission</li> </ul>		
9:45-10:00am	Break		
10:00-11:15am	<b>Session V: Sustainable Development:</b> <ul style="list-style-type: none"> <li>• Rick Hirsekorn, P.E., CH2M HILL, Vice-President and New York City Area Office Manager</li> <li>• Fred Merrill, Urban Planning Consultant, Principal at Sasaki Associates Architecture and Planning, Boston</li> </ul>		

11:15-12:30am	<b>Networking Breakout/Panel Session</b>	
	<b>Wildlife and Natural Systems Management – Salon D and H</b> <u><b>Panelists in addition to speakers:</b></u> <ul style="list-style-type: none"> <li>• Dr. Thomas Hctor, Director, Center for Landscape Conservation Planning, Department of Landscape Architecture, College of Design Construction and Planning, UF</li> <li>• Dr. Timothy White, Professor and Director of the School of Forest Resources and Conservation, UF/IFAS</li> </ul> <u><b>Moderator:</b></u> <ul style="list-style-type: none"> <li>• Dr. Tim Martin, Professor in the School of Forest Resources and Conservation, Director of the UF Carbon Resources Science Center, and Project Director of the NIFA funded PINEMAP project, UF</li> </ul>	<b>Sustainable Development – Grand Ballroom</b> <u><b>Panelists in addition to speakers:</b></u> <ul style="list-style-type: none"> <li>• Hal S. Knowles, III, PhD Candidate and Change Agent, UF/IFAS Program for Resource Efficient Communities</li> <li>• Steven Lachnicht, AICP, Director of the Alachua County Growth Management Department</li> <li>• Dr. Paul Zwick, Professor, Department of Urban and Regional Planning, College of Design, Construction and Planning UF</li> </ul> <u><b>Moderator:</b></u> <ul style="list-style-type: none"> <li>• Dr. Peggy Carr, Associate Dean for Undergraduate Students and Academic Affairs College of Design, Construction and Planning, Department of Landscape Architecture, UF</li> </ul>
<b>PM</b>		
<b>Grand Ballroom</b>		
12:30-1:50pm	<b>Lunch with Keynote Speaker:</b> <ul style="list-style-type: none"> <li>• Robert W. Bailey, P.E., BCEE, CH2M HILL Board Member, President – Water Business Group</li> </ul>	
1:50-2:00pm	Break	
2:00-3:20pm	<b>Session VI: Sustainable Resource Practices:</b> <ul style="list-style-type: none"> <li>• Dr. Nancy Gassman, Natural Resources Administrator, Energy and Sustainability Program, Broward County, FL</li> <li>• Shelley Lauten, Partner TriSect LLC, former President of myregion.org, Program Manager for the Urban Land Institute</li> <li>• Todd Powell, Senior Director of Real Estate, Plum Creek, Envision Alachua Project</li> </ul>	
3:20-4:00pm	<b>Closing Synthesis Keynote:</b> <ul style="list-style-type: none"> <li>• Ron Sims, Former Deputy Secretary for the U.S. Department of Housing and Urban Development, Former Executive of Martin Luther King Jr. County, Washington State</li> </ul>	
4:00pm	Closing	

# Program Committee

---

Special thanks to the program committee for all of their work on this event. We would like to thank:

**James W. Jones – Symposium Co-Chair**

*Distinguished Professor and Director*  
The Florida Climate Institute

**Kirk Hatfield – Symposium Co-Chair**

*Professor and Director*  
Engineering School for Sustainable Infrastructure  
and Environment

**Tim Anderson**

*Distinguished Professor and Director*  
Florida Energy Systems Consortium

**Peggy Carr**

*Associate Dean*  
College of Design Construction and Planning  
*Co-Director*  
Geoplan Center

**Geoffrey Dahl**

*Professor and Chair*  
Department of Animal Sciences

**Joan Dusky**

*Associate Dean*  
UF/IFAS Extension

**Lily Elefteriadou**

*Professor*  
Kisinger Campo  
*Director*  
Transportation Research Center

**Tom Frazer**

*Professor and Director*  
School of Natural Resources and Environment

**Wendy Graham**

*Carl S. Swisher Eminent Scholar*  
Water Resources  
*Director*  
UF Water Institute

**Ray Huffaker**

*Professor and Chair*  
Food and Resource Economics

**Pierce Jones**

*Professor and Extension Program Leader*  
Energy Programs

**Hal S. Knowles, III**

*PhD Candidate*  
SNRE  
*Change Agent*  
Program for Resource Efficient Communities

**Tim Martin**

*Professor and Project Director*  
PINEMAP project  
*Director*  
UF Carbon Resources Science Center

**Ken Quesenberry**

*Professor and Interim Chair*  
UF/IFAS Agronomy

**Thomas Ruppert**

*Esq., Coastal Planning Specialist*  
Florida Sea Grant

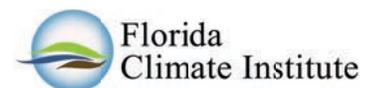
**Steve Sargent**

*Professor and Extension Postharvest Specialist,*  
UF/IFAS

**Alex Sheremet**

*Assistant Professor*  
Civil and Coastal Engineering

**Program hosted by**



# Opening Session



## **Dr. James Jones**

**Event Co-Chair, Distinguished Professor and Director of the Florida Climate Institute**

Dr. James W. Jones, PhD, is a Distinguished Professor in the department of Agricultural and Biological Engineering and Director of the Florida Climate

Institute. As a faculty member at the University of Florida, he has led and participated in many interdisciplinary research programs both nationally and internationally for over 35 years. His research has focused on modeling the effects of climate on crops and on applying those models to study effects of climate variability and climate change on crop yield to evaluate management options that minimize climate risks and support agricultural decision-making. He is author of more than 250 refereed scientific journal articles and teaches graduate courses on mathematical modeling and simulation of biophysical systems. He was recently elected to the National Academy of Engineering for his interdisciplinary research and serves on several international science advisory committees related to climate and agriculture.



## **Marsha Stanton**

**Industry Relations Manager at Monsanto**

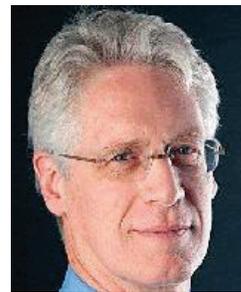
As Director of Industry Affairs, Marsha is the key liaison to a number of organizations that represent Monsanto, Monsanto's customers or purchasers of our customer's products in the agri-food system.

She is responsible for outreach with regard to Monsanto's corn products and plays a key role in global acceptance for biotechnology in the agri-food chain.

Marsha joined Monsanto in 1999 as the Global Director of Seed Regulatory Policy. In this role, she provided global leadership, coordination, and expertise on seed regulatory issues and policy direction, including seed

labeling and quality standards, adventitious presence of biotechnology in seed, phytosanitary requirements for import and export of seed, "coexistence", the Biosafety Protocol, and plant breeder's rights.

Marsha holds a masters degree in Agronomy (University of Florida) and a PhD. in plant breeding (University of Arkansas). After completing her graduate work, she served as a Congressional Science Fellow in the office of Senator Bob Kerrey (NE). She continued to work in DC as the DC representative for the Tri-Societies and CAST and later at USDA as the the Commissioner of the Plant Variety Protection Office and the National Program Leader for Plant Breeding and Genetics.



## **Dr. Kirk Hatfield**

**Event Co-Chair, Professor and Director of the Engineering School of Sustainable Infrastructure & Environment**

Dr. Kirk Hatfield is the Director of the Engineering School of Sustainable Infrastructure and Environment at the University

of Florida, the Director of the Florida Water Resources Research Center, member of the Board of Directors of the National Institutes of Water Resources, and a Professor in the Department of Civil and Coastal Engineering. Dr. Hatfield received his BS and MS degrees from the University of Iowa and his PhD degree from the University of Massachusetts in Amherst. Following graduation, he joined the University of Florida, Department of Civil Engineering in 1987.

Dr. Hatfield's ongoing research activities are in the areas of aqueous environmental monitoring, contaminant fate and transport modeling in the subsurface, environmental remediation, and water resources systems analysis. He has active research collaborations with universities and institutes in Russia, Brazil, Canada, Mexico, England, and Germany.



**Dr. Jack Payne**  
**Senior Vice President for**  
**Agriculture and Natural**  
**Resources**

Jack Payne is the Senior Vice President for Agriculture and Natural Resources at the University of Florida. Appointed senior vice president in June,

2010, Payne is the administrative head of the Institute of Food and Agricultural Sciences (IFAS) which includes the College of Agricultural and Life Sciences, a portion of the College of Veterinary Medicine, the School of Natural Resources and the Environment, the School of Forest Resources and Conservation, the Florida Agricultural Experiment Station, 13 Research and Education Centers throughout Florida, the Florida Sea Grant Program, the Florida Cooperative Extension Service with offices in each of the state's 67 counties, a third of the Genetics Institute and a third of the Emerging Pathogens Institute.

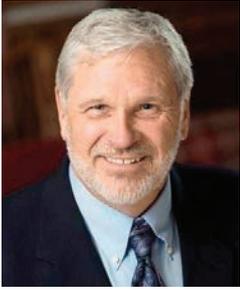
Prior to his current position he served as the Vice President for Extension and Outreach at Iowa State University and before that was the Vice President and

Dean for University Extension at Utah State. Jack also has experience at two other land-grant institutions: Pennsylvania State University, where he served on the faculty of the School of Forest Resources, and, later, at Texas A&M University, where he served as a faculty member in the Fisheries and Wildlife Department.

After leaving Texas A&M University, Payne had a long career with Ducks Unlimited (DU), as their National Director of Conservation. While at Ducks Unlimited, some of his successes included the development of DU's private lands program with agriculture, the development of a national conservation easement program and the expansion of their Mexican program to Central and South America.

Payne received his M.S. in Aquatic Ecology and his Ph.D. in Wildlife Ecology from Utah State University and is a graduate of the Institute for Educational Management at Harvard University. He is a tenured professor in the Department of Wildlife Ecology and Conservation at the University of Florida. Jack recently finished his term as the Chair of the Policy Board of Directors for the Board on Agriculture Assembly, Association of Public and Land-grant Universities.

# The Morrill Act: Context and Vision



## **Steven Merritt Seibert**

**Co-Founder TriSect LLC,  
Senior Strategic Advisor to  
UF/IFAS**

***Title: A Generosity of Spirit:  
Higher Education and the  
Community***

Seibert is a 1977 graduate of The George Washington University, where he was chosen for *Phi Beta Kappa*, and is a 1980 graduate of the law school at the University of Florida. For the succeeding decade, he practiced environmental and land use law in both the public and private sectors.

Seibert was elected to the Pinellas County (FL) Commission in 1992 and served as its Chairperson twice. He chaired or sat on several regional and state-wide committees, usually dealing with water, transportation, land use or environmental issues.

After re-election without opposition in 1996, Steve was tapped by Governor Jeb Bush to lead Florida's Department of Community Affairs and served in that capacity from 1999-2003. Governor Bush called Seibert "an outstanding public servant" and noted "his ability to bring people together to achieve meaningful reforms will be his lasting legacy."

Seibert is a member of the Board of Directors of The Mosaic Company (MOS), the world's leading producer of concentrated phosphate and potash crop nutrients. He was a charter Board member (created in 2004) and serves as Chairman of the Environmental, Health, Safety and Sustainable Development Committee, as a member of the Corporate Governance Committee and Nominating Committee, and served in the past on the company's Compensation Committee.

Seibert has operated his own law firm, served as the initial Executive Director of the *Century Commission for a Sustainable Florida*, and as a Senior Vice President and Director of Strategic Visioning for the non-partisan "think tank," the *Collins Center for Public Policy*. Steve has recently co-founded a strategy consulting company, TriSect.

Steve Seibert has been a Florida Supreme Court certified mediator for over 20 years and has gained a state-wide reputation for helping to resolve contentious public and private sector disputes. He was awarded the statewide "Excellence in Mediation Award" and was significantly involved in helping to broker the end of the Tampa Bay "water wars."

# Opening Address



## **Dr. John Ingram**

**Natural Environment Research Council (NERC) Food Security Leader, University of Oxford, UK**

***Title: Food Security and Environmental Change: A Two-Way street***

Following a BSc in chemistry from King's College, University of London (1979) and a MSc in soil chemistry from the University of Reading (1980), John Ingram gained extensive experience in the 1980s working in East and Southern Africa, and South Asia in agriculture, forestry and agroecology research projects. In 1991 he was recruited by the UK's Natural Environment Research Council (NERC) to help organise, coordinate and synthesise research on global change and agroecology as part of International Geosphere-Biosphere Programme, launching and running a series of international research networks on crops, soils, and pests and diseases. In 2001 he was appointed Executive Officer for the Earth System Science Partnership's Joint Project "Global Environmental Change and Food Systems"

(GECAFS). On the close of GECAFS in 2011, he assumed a new role as 'NERC Food Security Leader'.

John has had substantial interaction with a number of international organisations, especially the UN-FAO and the CGIAR and has worked closely with international and national departments, agencies and NGOs helping to establish region-wide research on the links between food security and environmental stress. Focal areas for his work have in the Indo-Gangetic Plains of south Asia, southern Africa, the Caribbean and Europe. He has published on a wide range of topics ranging from soil organic matter dynamics to food security issues. His recent activities have included promoting, coordinating and integrating international research related to the interactions between global environmental change and food security, as researched through analysis of food systems. Much of this work he brought together in his PhD thesis "*From Food Production to Food Security: Developing interdisciplinary, regional-level research*" (Wageningen University, NL: 2011).

John is based in the Environmental Change Institute, University of Oxford, UK.

# Opening Presentation



## **Dr. Sara Pryor**

**Provosts Professor of Atmospheric Science, Associate Vice Provost for Faculty and Academic Affairs – Indiana University**

***Title: Climate Science and the National Climate assessment***

Professor Pryor works in two related fields with climate science; (i) physical manifestations of global climate change and variability at regional scales (downscaling), and (ii) understanding formation and removal processes for atmospheric aerosols in order to reduce the uncertainties regarding aerosol climate forcing. She has published over 100 articles on these topics in internationally renowned journals, and is editor of the foremost atmospheric science journal – the *Journal of Geophysical Research: Atmospheres*.

Specific to her downscaling and climate impacts work: Prof. Pryor is editor of a new book, *Climate Change in the Midwest: Impacts, Risks, Vulnerability, and Adaptation*

and was also editor of a prior synthesis entitled *Understanding Climate Change: Climate Variability, Predictability, and Change in the Midwestern United States*. Professor Pryor is also a member of the National Climate Assessment and Development Committee (NCADAC), convened by the U.S. Department of Commerce’s National Oceanic and Atmospheric Administration, and Convening lead author for the Midwest region chapter of the forthcoming National Climate Assessment.

Specific to her work on atmospheric aerosols: Prof. Pryor conducts continuous measurements of ultrafine particle concentrations and fluxes at an AmeriFlux site that she helped to establish in southern Indiana. The resulting data record of continuous aerosol size distributions is second in length only to the Hyytiälä site in Finland. Prof. Pryor is also working with her group on regional aerosol modeling and deriving aerosol properties from satellite observations. She was a collaborator on the EUCAARI project in Europe and for the BEACHON (“Bio-hydro-atmosphere interactions of Energy, Aerosols, Carbon, H<sub>2</sub>O, Organics & Nitrogen”) experiments.

# Session I: Food Security and Ag Production



## **Dr. Molly Jahn**

**Former Deputy and Acting Undersecretary of Agriculture, Professor in the Laboratory of Genetics and Department of Agronomy, Center for Sustainability and the Global Environment, University of Wisconsin-Madison**

### ***Title: 21<sup>st</sup> Century Agricultural and Food Systems for People and the Planet***

Molly Jahn is a professor at the University of Wisconsin-Madison, holding appointments in the Department of Agronomy, the Laboratory of Genetics, and the Center for Sustainability and the Global Environment. From 2006-2011, she served as dean of the University of Wisconsin's College of Agricultural and Life Sciences. In 2009-10, she was called to Washington, DC to provide interim leadership as Deputy and Acting Under Secretary of Research, Education and Economics at the U.S. Department of Agriculture. Her research programs at University of Wisconsin and Cornell University have produced vegetable varieties grown commercially and for subsistence on six continents. In 2011, she was selected to represent the U.S. on the Commission for Sustainable Agriculture and Climate Change. Jahn has published widely including a recent book on Biotechnology and Sustainable Agriculture, serves on numerous boards, and scientific advisory panels including the Board on Agriculture and Natural Resources at the U.S. National Research Council/ National Academies of Science. She is a Co-editor in Chief of the new open access journal *BMC Agriculture and Food Security*, and she chairs the Scientific Advisory Committee for the Energy and Environmental Sciences Directorates at DOE's Oak Ridge National Lab. She consults for agribusiness and food companies, actuarial sciences, for philanthropic organizations and venture capital.



## **Dr. Fred Kirschenmann**

**Distinguished Fellow for the Leopold Center for Sustainable Agriculture, Iowa State University and President of Stone Barris Center for Food and Agriculture in NY**

### ***Title: Designing a Resilient Food System for the 21<sup>st</sup> Century: Challenges, Opportunities, and how Land Grants can help***

A longtime national and international leader in sustainable agriculture, he shares an appointment as Distinguished Fellow for the Leopold Center and as President of Stone Barns Center for Food and Agriculture in Pocantico Hills, New York. He also continues to manage his family's 2,600-acre certified organic farm in south central North Dakota.

He is a professor in the ISU Department of Religion and Philosophy and holds a doctorate in philosophy from the University of Chicago. He has held numerous appointments, including the USDA's National Organic Standards Board and the National Commission on Industrial Farm Animal Production operated by the Johns Hopkins School of Public Health and funded by Pew Charitable Trusts.

In April 2010, the University Press of Kentucky published a book of Kirschenmann's essays, *Cultivating an Ecological Conscience: Essays from a Farmer Philosopher*, that trace the evolution of his ecological and farming philosophy over the past 30 years.

He converted his family's farm in North Dakota to a certified organic operation in 1976. He developed a diverse crop rotation that has enabled him to farm productively without synthetic inputs (fertilizers or pesticides) while simultaneously improving the health of the soil.



**Dr. David McClary**  
DVM, Senior Technical Dairy  
Consultant, Elanco Animal  
Health

**Title: Making safe, affordable, and abundant food a global reality**

David McClary is senior Dairy Technical Consultant with Elanco Animal Health. He has been with Elanco for 24 years. During that time David has been involved in research and technical support of such cattle products as bovine somatotropin (Posilac®), monensin (Rumensin®) an ionophore for cattle to improve feed and milk production efficiency, Micotil® an injectable antibiotic for treatment and control of bovine respiratory disease. David is from Scottsville, KY. He received his BS from Western Kentucky University in 1970 and DVM from Auburn University in 1974. Following graduation he practiced in Kentucky until 1978 when he returned to Auburn. He received a MS and diplomat of the American College of Theriogenologist (reproduction) in 1982. He continued on the staff at Auburn as an Assistant Professor until 1988 when he joined Elanco in Greenfield, IN as a dairy researcher. Since 1996 he has served as a Senior Cattle Technical Consultant providing global technical and research support for Elanco in both beef and dairy cattle. His areas of expertise include bovine reproduction, mastitis, and bovine respiratory disease.

### Session I: Food Security and Ag Production Panelists

**Dr. Ken Boote: Professor Emeritus in Agronomy,  
UF/IFAS**

**Research area(s):** Crop physiologist/agronomist,  
research on responses of peanut, soybean, rice, maize,

common bean, and perennial forages to climatic factors of elevated temperature, elevated CO<sub>2</sub>, and drought often considering cultivar effects. For the past 30 years, also developed and tested crop growth models for response to weather, management, soils, and cultivar variation

**Dr. Walter Bowen: Director of International  
Programs in UF/IFAS**

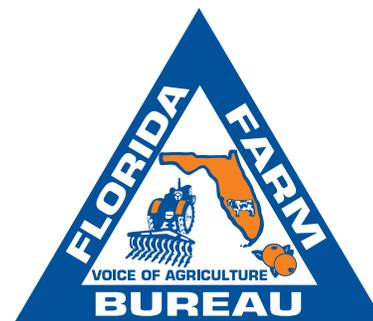
**Research area(s):** Walter is a soil scientist with a global portfolio of research and administrative experience. Walter earned his Ph.D. and M.S. at Cornell University, in Agronomy and Soil Science, with minors in agricultural economics and plant genetics. Walter's dissertation research was conducted in Brazil.

### Session I: Food Security and Ag Production Moderator

**Dr. Ken Quesenberry: Interim Chair of Agronomy,  
UF/IFAS**

**Research area(s):** professor of forage breeding and genetics in the Agronomy department and had taught numerous courses including plant breeding, cytogenetics and plants that feed the world

### Session I: Food Security and Ag Production Sponsor



# Lunch with Dr. Dave Gustafson



## **Dr. Dave Gustafson**

**Director, ILSI-RF Center  
for Integrated Modeling of  
Sustainable Agriculture &  
Nutrition Security (CIMSANS)**

***Title: Climate Change and  
Food Security Imperative:  
Collaborate or Starve!***

Dave Gustafson is a Senior Fellow at Monsanto Company, where he serves as Director of Environmental & Ag Policy Modeling. He also serves as Director for the ILSI Research Foundation's new Center for Integrated Modeling of Sustainable Agriculture and Nutrition Security, a global forum for industry scientists to engage others from academia and the public-sector on the growing challenge to satisfy future nutrition needs in more sustainable ways. His academic training was at Stanford University and the University of Washington in Seattle, where he earned his B.S. and Ph.D. degrees, both in chemical engineering. His research on the environmental challenges surrounding agriculture has now spanned nearly 30 years. The initial focus of his work was the

development of new computer models for predicting the environmental behavior of crop chemicals, especially their potential impacts on water quality. In subsequent years, Dave developed new modeling approaches to pollen-mediated gene flow and the population genetics of insect and weed resistance. In 2007, Dave served as an inaugural member and theme lead for the Monsanto Fellows Climate Change Panel, which reported back to the company on the degree of scientific certainty in climate modeling, and how climate change is already impacting agriculture around the world. He now serves on various national and international teams looking at these issues, including the Executive Secretariat of the US Government's National Climate Assessment Development & Advisory Committee.

**Luncheon Sponsored by**



# Session II: Energy



## **Dr. Sam Baldwin**

**Chief Science Officer at the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy**

**Title: *Renewable Electricity Futures***

Sam Baldwin is a Ph.D. Physicist and currently serves as the Chief Scientist for the Office of Energy Efficiency and Renewable Energy at the U.S. Department of Energy. In previous positions he has served with the White House Office of Science and Technology Policy (OSTP), the National Renewable Energy Laboratory, the Congressional Office of Technology Assessment (OTA), Princeton University, the Sahelian Anti-Drought Committee (CILSS) in West Africa, the U.S. Senate, and elsewhere. He is the author or coauthor of 9 books and monographs at OSTP, OTA, DOE, and elsewhere, and more than 30 papers and technical reports on energy technology and policy, physics, and other issues. He was elected as a Fellow of the American Association for the Advancement of Science in 2007.



## **Dr. Brent Shanks**

**Mike and Jean Steffenson Professor in Chemical and Biological Engineering and Director of NSF's Engineering Research Center for Biorenewable Chemicals at Iowa State University**

**Title: *Biofuels – Challenges and Opportunities***

Dr. Brent Shanks is the Mike and Jean Steffenson Professor of Chemical and Biological Engineering at Iowa State University and Director of the National Science Foundation Engineering Research Center for Biorenewable Chemicals (CBiRC). He received his

B.S. degree from Iowa State University in 1983 and M.S. and Ph.D. degrees from the California Institute of Technology in 1985 and 1988, respectively. From 1988 to 1999 he worked as a Research Engineer and Department Manager in the Catalyst Department at the Shell Chemical Company technology center in Houston, Texas. While at Shell, he was involved in the development and commercialization of catalysts used in petrochemicals production. He joined the faculty at Iowa State University in 1999 where his work has primarily involved the research and development of novel heterogeneous catalyst systems for efficiently converting biological-based feedstocks to chemicals and fuels.

## **Session II: Energy Panelists**

**J.L. Martinez: Sr. Director Office of Clean Energy, Florida Power & Light Company**

**Research area(s):** Identifying and originating clean energy opportunities in the state to promote visibility, commitment and economic development. Most recently, Mr. Martinez led the Company's efforts in the development of three large solar projects and three large combined cycle natural gas facilities.

**Dr. Gary Peter: Professor, School of Forest Resources and Conservation, UF/IFAS**

**Research area(s):** Forest biology and genetics with a focus on improving stem growth and wood properties in southern pines. Current projects include developing high terpene pines for direct extraction of biofuels

**Patrick Sheehan: Executive Director, Office of Energy, Florida Department of Agriculture and Consumer Services (FDACS)**

**Research area(s):** International affairs division of the U.S. National Guard Bureau at the Pentagon, public policy and leadership positions in U.S. Department of State, the United States Congress, Office of the Secretary of Defense, Joint Chiefs of Staff, and U.S. military Geographic Combatant Commands.

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## Session II: Energy Moderator

**Dr. Jennifer Curtis: Interim FESC Director,  
Associate Dean for Research, College of  
Engineering, Distinguished Professor of Chemical  
Engineering, UF**

**Research area(s):** Computational fluid dynamics simulations used to design, optimize, and troubleshoot multiphase flow devices in fossil fuel processing plants

## Session II: Energy Sponsor



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# Session III: Infrastructure and Transportation

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### **Tim Jackson**

**PE, Senior Principal Planner,  
Kittelson & Associates, Inc.  
Transportation Engineering,  
Orlando, FL**

***Title: Transportation and  
Sustainable Economies***

Tim serves as a principal planner in the Orlando office of KAI. He formerly served as President of Glatting Jackson, Inc. a community planning firm which joined AECOM in 2010. With more than 30 years of experience, Tim helps public and private clients by creating innovative solutions for great cities.

Tim's work in community design, regional planning and visioning, masterplanning, integrated land use and transportation planning, context sensitive solutions, and livable transportation helps communities throughout North America become more connected, economically vibrant and sustainable.

Tim currently serves as Chairman of the Board of 1000 Friends of Florida, a private not-for-profit corporation that has been advocating for smart growth since 1986. He led the organization's development of the Florida 2060 Plan, and has served on numerous advisory committees including the ULI Committee on Regional Cooperation in 2005, and the Leadership Committees for the Florida Transportation Plan 2025 Update and 2050 Plan.

He is an active member of the American Society of Civil Engineers. Activities have included co-chair of the 1999 and 2006 Specialty Conferences on Context Sensitive Solutions, co-chair of the Environmental Issues committee (1993 – 2010), and steering committee for the 2011 Green Streets and Highways Specialty Conference. He was the 2011 winner of the Wilbur Smith Award.

Tim is also active in the Urban Land Institute and the Congress for the New Urbanism.



**Dr. Josias Zietsman**

**Head of the Environment and Air Quality Division at Texas A & M Transportation Institute (TTI)**

***Title: Applying Sustainability in the Transportation Sector***

Dr. Zietsman is the Head of the Environment and Air Quality Division at the Texas A&M Transportation Institute (TTI). Since joining TTI in the Spring of 1998 he has been principal investigator of several research projects covering the areas of air quality, sustainable transportation, performance measurement and transportation planning. He is also a member of the Graduate Faculty of Texas A&M University. In addition to his research experience, he has 3 years of highway construction experience and 7 years of metropolitan transportation planning experience. Dr. Zietsman has written numerous technical papers and reports and is a frequent speaker at national and international conferences and meetings. He is also an active member of the Transportation Research Board where he is Secretary of the Performance Measurement Council and member of the Air Quality and Sustainability Committees



**Dr. Blair Feltmate**

**Associate Professor in the Faculty of Environment, University of Waterloo**

***Title: Key Lessons of the Climate Change Adaptation Project (Canada)***

Dr. Feltmate is an Associate Professor in the Faculty of Environment, University of Waterloo. Positions he holds include: Chair, Climate Change Adaptation Project (Canada); Chair, Pollution Probe; Advisory Board, Willis Energy Services; Co-Chair, Extreme Weather Task Force, City of

Toronto; Co-Chair, Greening Greater Toronto; Chair, Sustainable Electricity Program, Canadian Electricity Association; and Board Member, Sustainable Hamilton.

Previously, Dr. Feltmate was Director of Sustainable Development, Ontario Power Generation, and before that he was Vice President, Sustainable Development, Bank of Montreal. Earlier in his career, Dr. Feltmate developed the sustainable development programs for two dozen multi-national companies.

**Session III: Infrastructure and Transportation Panelists**

**Jim Wood: Director of the Office of Policy Planning, Florida Department of Transportation (FDOT)**

**Research area(s):** 17 years of experience in planning, program administration, policy development, and inter-governmental coordination at the Florida Department of Environmental Protection. His work has focused on advancing multi-modal transportation systems, economic development initiatives, and regional and state scale conservation and recreation efforts.

**Dr. Ruth Steiner: Associate Professor; Director: Center for Health and the Built Environment, Department of Urban and Regional Planning, UF**

**Research area(s):** Transportation policy and planning, land use and transportation interactions, multi-modal transportation planning, growth management, transportation concurrency, and environmental impact assessment

**Session III: Infrastructure and Transportation Moderator**

**Dr. Kirk Hatfield: Professor and Director of the Engineering School of Sustainable Infrastructure and Environment, UF**

**Research area(s):** Groundwater water flow and contaminant transport modeling, groundwater remediation, surface and ground water monitoring, water resource allocation modeling

# Poster Reception

Sponsored by



## Plum Creek

*Growing Value from Exceptional Resources*

## Session IV: Wildlife and Natural Systems Management



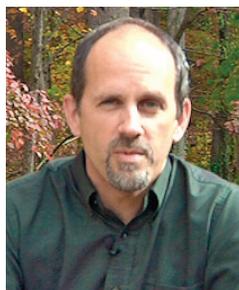
### John Pait

**Sr. VP for Sales, Marketing and Product Development  
ArborGen**

***Title: Success Factors in Public-Private Natural Resources Research***

John Pait has worked in research and management roles in the forest products industry for over twenty five years. A native of Atlanta, GA, he received B.S. and M.S. degrees in forest management and silviculture at the University of Georgia Warnell School of Forestry and Natural Resources. John's career in major forest products companies has focused on developing and implementing cutting-edge silviculture, genetics and nursery technologies to increase forest productivity and investor returns. Prior to joining ArborGen, was a senior vice president of business development for CellFor Corporation in Atlanta, Ga., led forestry R&D at Smurfit-Stone and then managed the Forest Productivity Groups at Georgia-Pacific, The Timber Company and Plum Creek Timber Company. In his role at ArborGen, John provides commercial and strategic leadership for the company's global business interests including seedling sales, marketing, genetics research and product development. John serves as a board member

of the Forest Landowners Association and is a member of the Society of American Foresters and several state forestry associations.



### Dr. Kier Klepzig

**Assistant Director, Southern Research Station, USDA Forest Service**

***Title: Symbiosis in forest science: partners and pests***

Although a native Midwesterner, with roots in Chicago and Wisconsin, Kier has spent the past 18 years working on interactions between insects and microbes in the South. Kier received his BS in 1986 from the University of Wisconsin-Platteville with a double major in Biology and Reclamation.

He then moved to the University of Wisconsin-Madison where he studied under Ken Raffa and Gene Smalley, gaining a MS (1989) and a PhD (1994), both with a double major in Entomology and Plant Pathology.

Kier's taught at Southern University, before joining the Forest Service in Pineville, LA in 1995.

Kier was a research entomologist and then project leader there for 14 years before being named Assistant Director of the Southern Research Station in Asheville, NC.

Kier is a devoted Packers fan and sings bass with the acapella quartet Aire (like them on Facebook).

Please welcome Kier as he discusses symbiosis in forests and forestry research.



**Dr. Karl Havens**

**Director, Florida Sea Grant Program, Professor in the School of Forest Resources & Conservation, UF/IFAS**

**Title: *Apalachicola Bay Oyster Decline 2012 – Evaluating Effects***

***of Harvesting, River Flow, Drought and Predation***

Karl Havens is Director of the Florida Sea Grant College Program and a Professor in the School of Forest Resources & Conservation in UF/IFAS. He received his PhD from West Virginia in 1984, and held faculty positions at the University of Pennsylvania and Kent State University. Prior to becoming Sea Grant Director he was Chair of the UF/IFAS Department of Fisheries and Aquatic Sciences. His research focuses on effects of anthropogenic and natural stressors on food webs in shallow lakes and estuaries. He has published over 140 peer-reviewed journal articles in his area of expertise, as well as book chapters, review papers and a book on shallow lake eutrophication. He is a member of the Florida Oceans Council, the Florida Oceans Alliance, and since fall 2012, has been serving as Chair of the UF Oyster Recovery Team.



**Dr. Thomas Eason**

**Deputy Director, Division of Habitat and Species Conservation, Florida Fish and Wildlife Conservation Commission**

**Title: *Florida Fish and Wildlife: Adapting to Transformational Change***

Thomas Eason works as a wildlife biologist and administrator for the Florida Fish and Wildlife Conservation Commission (FWC). He received his B.S. and M.S. in Wildlife Science at Virginia Tech and the University of Tennessee, respectively, and completed his Ph.D. in Ecology from the University of Tennessee. He began his career working on black bear ecology and management and subsequently has taken on a variety of duties for the FWC focused on wildlife diversity conservation. He began his career with FWC as the Leader of the Bear Management Section and most recently served as the Deputy Director of Policy and Planning Development for the Division of Habitat and Species Conservation (HSC). He now serves as Division Director for HSC.

**Session IV: Wildlife and Natural Systems Management Panelists**

**Dr. Thomas Hoctor: Director, Center for Landscape Conservation Planning, Department of Landscape Architecture, College of Design Construction and Planning, UF**

**Research area(s):** The application of landscape ecology and conservation biology to regional planning, greenway and wildlife corridor design, large carnivore ecology and conservation, focal species habitat modeling, and Geographic Information Systems applications in conservation planning

**Dr. Timothy White: Professor and Director of the School of Forest Resources and Conservation, UF/IFAS**

**Research area(s):** Forest genetics, quantitative genetics, mixed linear models and best linear unbiased prediction, tree improvement and international forest resources and conservation

#### **Session IV: Wildlife and Natural Systems Management Moderator**

**Dr. Tim Martin: Professor in the School of Forest Resources and Conservation, Director of the UF Carbon Resources Science Center, and Project Director of the NIFA funded PINEMAP project, UF**

**Research area(s):** (1) biological responses to the environment and to management actions; (2) influence of stand development on forest structure and function; and (3) physiological genetics. Much of the recent work in the lab is focused on regional research initiatives in important southern pine species.

## **Session V: Sustainable Development**



**Rick Hirsekorn**  
P.E., CH2M HILL,  
Vice-President and New York  
City Area Office Manager

**Title: *Sustainability and the Olympics***

Mr. Hirsekorn is a Vice President with CH2M HILL and serves as the Area Office Manager for the New York City office. In this position, he oversees major programs and provides direction on large, complex water resources and environmental projects. He is a certified CH2M HILL project manager who has chartered and managed project teams, established and controlled budgets and schedules, and provided the interpersonal skills necessary for effective project management.

Mr. Hirsekorn is experienced in leading strategy and policy development on broad, strategic programs including leadership of CH2M HILL's work for the Olympics,

having served as an advisor to the Beijing Organizing Committee for the Olympic Games, when he led the development of the Environmental Management System for 2008 Summer Olympic Games.

In his career with CH2M HILL, Rick Hirsekorn has managed and directed major infrastructure projects for public and private clients, led public-private partnerships for outsourcing of general governmental services, and has served as the Environmental Advisor to several Olympic Organizing Committees. Prior to becoming the Manager of CH2M HILL's New York City Office, he served as Director of Site Operations and Security for the Joint Venture delivering the 2012 London Olympic Park Programme on behalf of the Olympic Delivery Authority.

**Education/Professional Registration:** Mr. Hirsekorn has a B.S. in Civil Engineering and a M.S. in Environmental Health Engineering both from the University of Kansas. He is a registered Professional Engineer (Oregon).



## **Fred Merrill**

**Urban Planning Consultant,  
Principal at Sasaki Associates  
Architecture and Planning,  
Boston**

***Title: New Ideas in Planning  
the Sustainable Campus***

For more than 30 years, Fred Merrill has led the creation of master plans and implementation strategies for neighborhood/downtown/urban district regeneration projects; commercial and mixed use real estate developments; corporate office/R&D campuses; master planned communities; large scale public/private/institutional land holdings; reuse of military, institutional and brownfield properties; and the crafting of land use policies and practices that promote sustainable communities. Fred directs interdisciplinary planning and design teams across all phases of project master planning and implementation, including development due diligence and feasibility, land use programming, alternatives generation and analysis, master planning strategies, and public participation and consensus building throughout the entire governmental/regulatory approval process.

Fred's current practice includes leading an interdisciplinary team in the transformation of a low-density residential master planned community into a higher-density mixed use "medical city" with a range of institutional, residential, commercial, retail and civic uses; developing a regeneration plan for a disadvantage urban neighborhood; creation of a master plan for a new district related to a major research university; crafting a land use plan and rezoning strategy for a growing city that recently annexed major land area; forming a redevelopment strategy for campus-downtown urban district for a combined city/university client; transforming a former military base into a new town with a balance of residential, employment, commercial and civic uses; and development of a mixed use reuse plan for closed state hospital.

Fred is a frequent presenter at national planning and real estate development conferences and is a co-instructor at the Harvard University Graduate School of Design's Executive Education Seminar Program.

A resident of Lexington, Massachusetts, Fred served seven years on the town's Planning Board, including two years as Chairman. Mr. Merrill earned a Masters of City Planning and Masters of Science in Architectural Studies from MIT and a Bachelor of Science in Land Economics from the University of Wisconsin - Madison.

Fred is a member of the American Institute of Certified Planners, the Urban Land Institute's Sustainable Development Council and was a contributing author of "The New Suburbia: Trends in Residential Development," Urban Land Institute, 2003.

## **Session V: Sustainable Development Panelists**

**Hal S. Knowles, III: PhD Candidate and Change Agent, UF/IFAS Program for Resource Efficient Communities**

**Research area(s):** a UF/IFAS Extension Change Agent who leverages his interdisciplinary experience in green building science, systems ecology, social psychology, and organizational leadership to raise awareness of, and catalyze behavioral coherence within, the impermanent and evolving path of sustainability as a problem solving process focused on resolving dissonance in linked social-ecological systems.

**Steven Lachnicht: AICP, Director of the Alachua County Growth Management Department**

**Research area(s):** Comprehensive Planning, Development Review, Code Enforcement, Building Permitting, GIS and Affordable Housing. Committed to promoting a sustainable compact mixed use community with a balance of economic, environmental and social needs.

**Dr. Paul Zwick: Professor, Department of Urban and Regional Planning, College of Design, Construction and Planning, UF**

**Research area(s):** Dr. Zwick has been on the faculty at UF for over 25 years. His area of expertise is the application of GIS to land use decision making. He has developed alternative land use scenarios for the Central Florida, Tampa Bay and SW Florida regions, exploring the physical repercussions of the application of land use policies for transportation, conservation and redevelopment among others.

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**Session V: Sustainable Development Session  
Moderator**

**Dr. Peggy Carr: Associate Dean for Undergraduate Students and Academic Affairs College of Design, Construction and Planning, Department of Landscape Architecture, UF**

**Research area(s):** regional conservation strategies, greenway/corridor design, land use planning at the urban/rural interface, land use planning and reserve design in Central America, ecotourism, recreational carrying capacity and environmental policy

# Lunch with Robert W. Bailey



**P.E., BCEE, CH2M HILL Board Member, President – Water Business Group**

***Title: Global Perspectives on Sustainability***

Mr. Bailey is the President of the Water Business Group for CH2M HILL. In this role, he has

worldwide responsibility for the development, project performance, and risk management of all CH2M HILL water, wastewater and water resource projects.

CH2M HILL's Water Business Group brings the firm nearly \$1 billion in revenue annually, employs approximately 4,000 people and completes more than 4,000 planning, design and construction projects each year.

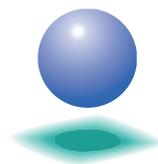
Mr. Bailey also serves on CH2M HILL's Board of Directors.

## **Community/Professional Involvement**

Mr. Bailey has a B.S. in Civil Engineering from the University of Illinois. He is a registered Professional

Engineer (Florida), and is a Board-Certified Environmental Engineer as recognized by the American Academy of Environmental Engineers. Mr. Bailey is a graduate of Leadership Florida and has served on the Leadership Florida Board of Governors and the Florida Chamber of Commerce Board of Governors. He currently serves as a member of the Global Agenda Council on Water Security and the Water Steering Board of the World Economic Forum, the Water Environment Federation's Global Water Strategies Council, and the Advisory Board of the University of Florida's Engineering School of Sustainable Infrastructure and the Environment (ESSIE). Mr. Bailey is also a Past President of the Florida Section of the American Water Works Association (AWWA).

## **Luncheon Sponsored by**



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# Session VI: Sustainable Resource Practices



## **Dr. Nancy Gassman**

**Natural Resources  
Administrator, Energy and  
Sustainability Program,  
Broward County, FL**

***Title: The Southeast Florida  
Regional Climate Change  
Compact: Working Toward a***

### ***Climate Resilience Community***

Dr. Nancy J. Gassman received her Ph.D. from the University of Miami working on a variety of issues impacting coastal ecosystems. She started her 17 years in public service guiding the early development of Broward's Integrated Water Resources Plan. She was promoted to Director of Environmental Monitoring where she played a critical role in the design and construction of Broward's LEED-certified environmental chemistry laboratory. Since her appointment to Natural Resources Administrator in January 2009, her main focus has been supporting the development and implementation of Broward's Climate Change Action Plan and managing Broward's Energy and Sustainability Program. She has been a major contributor to developing technical tools for the Southeast Florida Regional Climate Change Compact. Current activities are focused on encouraging sustainable practices and implementing climate adaptation policies.



## **Shelley Lauten**

**Partner TriSect LLC, former  
President of myregion.org,  
Program Manager for the Urban  
Land Institute**

***Title: Civic Innovation  
– Building Regional  
Collaboration***

Shelley Lauten is a Founding Partner of triSect, a strategic consulting firm focused on civic innovation...and

civic innovation begins by bringing the three sectors—business, government and independent-- together to solve community issues.

Prior to founding the firm, Shelley served as President of *myregion.org*, a business unit of the Central Florida Partnership formed to serve as a catalyst for Central Florida's individuals, organizations, businesses, and governments acting together to make the region globally competitive.

Previous to being recruited to develop and launch *myregion.org*, Shelley's experience was in the business sector, holding key executive positions at Arnold Palmer Golf Management Company and Walt Disney World.

Throughout her career, Shelley has been extensively involved in leadership roles in her industry and community. She has served as Chair of the Alliance for Regional Stewardship/ACCE and as a member of the Executive Board of the Urban Land Institute-Central Florida, the National Board of Directors of the American Chamber of Commerce's Community Growth Educational Foundation and the Board of Directors of the Florida Chamber Foundation.



## **Todd Powell**

**Senior Director of Real Estate,  
Plum Creek, Envision Alachua  
Project**

***Title: Envision Alachua:  
a case study for large scale  
planning***

Plum Creek is the largest and most geographically diverse private landowner in the nation, with approximately 6.8 million acres in major timber producing regions of the United States.

Todd Powell oversees Plum Creek's real estate activities in Florida.

Prior to joining Plum Creek, Powell worked at WCI Communities in various capacities including vice

president of land acquisitions. He joined WCI after 10 years with Ernst & Young LLP where he was a senior manager in the company's business advisory services practice concentrating in mergers and acquisitions. Powell is a certified public accountant, has a Master in Business Administration from the University of Florida, and a Bachelor of Science degree in accounting from Bowling Green State University.

Powell currently serves on the board of directors for the Florida Chamber of Commerce and the Gainesville Area Chamber of Commerce as well as the board of trustees for the Florida Chamber Foundation. He is a member of the Urban Land Institute and the Florida

Forever Business Council, and was named to the University of Florida Real Estate Advisory Board in 2010. He is also a recent graduate of the Leadership Florida program (Class XXX).

## **Session VI: Sustainable Resource Practices** **Moderator**

**Steve Merritt Seibert: Co-Founder TriSect LLC,  
Senior Strategic Advisor to UF/IFAS**

**Research area(s):** Environmental and land use law, public service, resource conflict resolution, municipal planning, mediation of public/private disputes.

# Closing Synthesis Keynote



## **Ron Sims**

**Former Deputy Secretary for the U.S. Department of Housing and Urban Development, Former Executive of Martin Luther King Jr. County, Washington State**

***Title: Closing Synthesis***

Appointed by President Obama and unanimously confirmed by the U.S. Senate, Ron Sims served as the Deputy Secretary for the U.S. Department of Housing and Urban Development from 2009 to 2011. As the second most senior official at HUD, Sims managed the day-to-day operations of an agency with 8,500 employees and an operating budget of nearly \$40 billion.

Prior to his appointment at HUD, Sims served for 12 years as the elected Executive of Martin Luther King, Jr. County in Washington State, the 13th largest county in the nation with 1.8 million residents and 39 cities including the cities of Seattle, Bellevue and Redmond.

As County Executive, Sims was nationally recognized for his work on the integration of environmental, social equity and public health policies that produced groundbreaking work on climate change, health care reform, affordable housing, mass transit, environmental protection, land use, and equity and social justice.

Sims was named Leader of the Year by American City and County Magazine in July, 2008 and was recognized

as one of Governing Magazine's Government Officials of the Year in 2007. He has been honored with national awards by the Sierra Club and the Environmental Protection Agency. He is the recipient of Group Health's Innovators in Health Award. Sims joined Senator Edward Kennedy and California Governor Arnold Schwarzenegger as recipients of the 2008 Health Quality Award from the National Committee for Quality Assurance.

Sims was appointed in 2011 by Washington State Governor Chris Gregoire to serve on the Board of Regents of Washington State University. The board of regents is the university's governing body.

Sims was also appointed by Governor Gregoire to serve on the Puget Sound Leadership Council, a seven-member citizen group that governs the Puget Sound Partnership, a state agency coordinating with federal, state, local, tribal and private resources in restoring the ecological health of Washington state's largest estuary. Sims rejoined the Board of Directors of the Puget Sound Health Alliance, a nonprofit organization he helped found where employers, physicians, hospitals, patients, health plan providers and others from throughout the five largest counties in Washington state come together to improve health care quality.

Born in Spokane, Washington in 1948, Sims is a graduate of Central Washington University.

# Poster Session

Poster #	Presenter Name	Title Of Poster	Poster Authors
1	Comstock, Ian	Tropical Cyclone Warnings and Pre-Landfall Rain Duration and Accumulation	Ian Comstock and Corene Matyas
2	Maleski, Jerome	Coupled Impacts of ENSO, AMO and PDO on Local Climate in the ACF-ACT River Basins.	Jerome Maleski and Christopher J. Martinez
3	Matyas, Corene	Hurricanes at Landfall: Rain-Field Sizes and their Relationship to Environmental Conditions	Corene J. Matyas
4	Tang, Jingyin	Geospatial Properties of Tropical Cyclone Rain Bands as Detected by Ground-Based Radar	Corene J. Matyas and Jingyin Tang
5	Tian, Di	Seasonal Predictions of Reference Evapotranspiration (ET <sub>o</sub> ) Based on Climate Forecast System Version 2 (CFSv2)	Di Tian, Christopher J. Martinez, and Wendy D. Graham,
6	De Vilbiss, Chris	Biophysical Resource Valuation	Mark T. Brown, Christopher D. De Vilbiss
7	Fang, June	Invasive Plants as Feedstock for Biochar and Bioenergy Production	June Fang, Bin Gao and Rui Liao
8	Jung, Je Hyeong	Modifying Cell Wall Composition to Enhance Biofuel Production from Lignocellulosic Sugarcane Biomass	Je Hyeong Jung, Wilfred Vermerris, Maria Gallo, Jeffrey R. Fedenko, John E. Erickson and Fredy Altpeter
9	Kannan, Baskaran	Development of a High-Biomass Crop with Enhanced Biosafety by Interspecific Hybridization between Elephantgrass and Pearl Millet	B. Kannan, L. Sollenberger and F. Altpeter
10	Lamm, Kevan	Opinion Leaders: Potential Grassroots Conduit to Renewable Energy	Hannah S. Carter, Alexa J. Lamm and Kevan W. Lamm
11	Sinche, Marco	Combining High Biomass Yield and Enhanced Biosafety in Advanced Elephantgrass ( <i>Pennisetum Purpureum</i> Schum.) Breeding Lines	Altpeter F., Sinche M., Kannan B. and Corsato C.
12	Wu, Na	Biogasification of Byproducts and Residues to Enhance Sustainability of Biofuel Production Processes	Wu Na, Zhuoli Tian, Gayathri Ram Mohan, Lonnie Ingram and Pratap Pullammanappallil
13	Andreis, Jose	Mobile Applications for Agricultural and Urban Irrigation Schedule Support	Jose H. Andreis, Clyde Fraisse, Kati Migliaccio, Kelly Morgan and George Vellidis
14	Bateman, Craig	Protecting American Pine Forests: An Assessment of Potential Beetle-Fungus Pathogens	Jiri Hulcr and Craig Bateman
15	Desaunay, Aurelien	Role of Physicochemical and Biochemical Soil Characteristics on Fate of Pathogenic Bacteria	Aurelien Desaunay, Kimberly M. Johnston, Guillaume Paternostre and Jeffrey L. Ullman
16	Dourte, Daniel	Waterfootprint: A Dynamic, Web-Based Tool for Agricultural System Evaluation and Regional Comparison	Daniel R. Dourte, Clyde W. Fraisse and Oxana Uryasev
17	Gelcer, Eduardo	Updating Agroclimate Tools: Providing Grid Based Information	Eduardo Gelcer, Tiago Zortea, Clyde W. Fraisse and Renan Mendes
18	Inyang, Mandu	Filtration of Engineered Nanoparticles in Carbon-Based Fixed Bed Columns	Mandu Inyang, Bin Gao, Lei Wu, Ying Yao, Ming Zhang and Lin Liu
19	Liang, Xi	Growth, Yield, and Water Relations of Sorghum Genotypes Differing in Root Architecture Under Deficit Irrigation	J.E. Erickson, X. Liang, W.E. Vermerris, D.L. Rowland, L.E. Sollenberger and M.L. Silveira

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20	Lopez, Jose	Low Root Conductance and Nodal Root Angle as a Potential Drought Tolerance Traits in Grain Sorghum	J.E. Erickson, J.R. Lopez, A. Saballos, W.E. Vermerris, R.L. Darnell, D.L. Rowland, and S. Asseng
21	Lopez-Martinez, Giancarlo	Using Hormesis to Improve an Environmentally-Friendly Pest Control Tactic, the Sterile Insect Technique.	Giancarlo López-Martínez and D.A. Hahn
22	Ludgate, Nargiza	Extension and Advisory Service for Women's Groups in Jordan	Sandra L Russo, PhD, Nargiza Ludgate, Kristen Augustine, Suni Brito and Anita Anantharam, PhD
23	Mason, Ashley	Comparing Grid and Ec Directed Zone Soil Sampling Schemes for Peanut Production	A. Mason, R. Schnell, J.A. Ferrell, R. Leon and W. Lee.
24	Montone, Verona	Spatialization of Leaf Wetness Duration and Temperature to Expand the Strawberry Advisory System	Verona O. Montone, Clyde W. Fraisse and Natalia A. Peres
25	Ramirez-Rodrigues, Melissa A.	Tailoring Wheat Management to Enso Phases for Increased Wheat Production in Paraguay	Melissa A. Ramírez-Rodrigues, Senthold Asseng, Clyde Fraisse, Lydia Stefanova and Alicia Eisenkolbi
26	Raymundo, Rubi	Prioritizing Climate Change Adaptation Needs for Food Security in the Andes	Rubi Raymundo, Carla Gavilan, Shankar Kaji Shakya, Senthold Asseng, Sabine Grunwald, Ariena Van Bruggen, Erica Goss, James Sterns, Walter Bowen, Roberto Quiroz, Andre Devaux, Jorge Andrade-Piedra, Ulrich Kleinwechter and Guy Hareau
27	Sun, Yining	What Makes Biochar Different, Temperature, Feedstock or Method?	Yining Sun, Bin Gao, Yanmei Zhou, Ying Yao, Mandu Inyang, Lin Liu, Ming Zhang, Hui. M Luo and Liuyan Yang
28	Udell, Bradley	An Evaluation of Commercial Aquaponics as an Adaptation and Mitigation Strategy to Corn Production in Indiana and Illinois	Bradley J. Udell and Susan E. Cameron Devitt
29	Yao, Ying	Engineered Carbon (Biochar) Prepared by Direct Pyrolysis of Mg-Accumulated Tomato Tissues: Characterizations and Phosphate Removal Potential	Ying Yao, Bin Gao, Jianjun Chen, Ming Zhang, Mandu Inyang
30	Zhang, Li	Modeling Early Growth of the Common Bean ( <i>Phaseolus Vulgaris</i> )	Li Zhang, C. Eduardo Vallejos, Kenneth J. Boote, Senthold Asseng, Wei Hou, Jim W. Jones, Jose A. Clavijo, Mehul Bhakta and Melanie Correll
31	Zhou, Yanmei	The Adsorption Capacity of Biochar-Impregnated Chitosan to Heavy Metals and the Released Effect to Seeds Germination and Seedling Growth	Yanmei Zhou and Bin Gao
32	Zimmerman, Andrew	Biochar as a Tool for Carbon Sequestration and Soil Amelioration	Andrew R. Zimmerman, Atanu Mukherjee and Bin Gao
33	Zimmerman, Dorothy	Your Children will not be Eating the Catch of Today	Steve Otwell and Dorothy Zimmerman
34	Nowrouzian, Roosbeh	Impact of Urban Design on Individuals Mobility and Person Mile Traveled	Siva Srinivasan and Roosbeh Nowrouzian
35	Thomas, Alexis	A Gis Tool for the Assessment of Projected Sea Level on Transportation Infrastructure in Florida	Alexis Thomas, Reginald Pierre-Jean, Russell Watkins and Maria Cahill
36	Trucco, Christian	Energy-Lca Synthesis Models for Build Environments: Challenges and Opportunités	Ravi S. Srinivasan, Daniel Campbell, Laya Lackshmanan, Christian Trucco and P. Acosta
37	Carnahan, Libby	Assessing Coastal Resiliency in Pinellas County, FL	Libby Carnahan and Ramona Madhosingh-Hector

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38	Cook, Bryant	Eco Industrial Parks: Impacts of Resource Flows on Site Planning Decisions	Bryant M. Cook
39	Komeily, Mohammad Ali	Pre-Construction Assessment Tool for Neighborhood Development	M. Ali Komeily and Jonathan Shi
40	Marquez, Marcela	Factors Influencing Conservation Behavior Change of Wine Producers in Chile	Marcela Marquez-Garcia and S.K. Jacobson
41	Nettleman, Tony	A GIS Analysis of Policy Options to Address Sea Level Rise in Florida	C.A. Nettleman, III, Amr Abd-Elrahaman, Damian Adams, Grenville Barnes, Bon Dewitt and Timothy Fik
42	Requesens, Mia	Developing Communities: A Participatory Approach to Stormwater Design	Mia D. Requesens
43	Ruppert, Kathleen	Sustainable Floridianssm – A Statewide Educational Program	Ramona Madhosingh-Hector, W. Sheftall, H. Copeland, K.C. Ruppert, E. Foerste, JP Gellermann and E. Linkous
44	Sturmer, Leslie	Florida Hard Clam Aquaculture: From Business Development to a Sustainable Industry	Leslie Sturmer, Chuck Adams, Shirley Baker, Rex Ellis, Todd Osborne, Steve Otwell and John Scarpa
45	Weppelmann, Theodore	Planning for Resource Efficiency in Land Development and Conservation at the Gilchrist Club: A Comparison of Landscape Masterplans	Theodore Weppelmann, Hal Knowles, B. Larson and J. Engstrom.
46	Whiteford, William	Avoiding Conflict: A New Technique for Creating Scenarios of Resource Efficient Land Use Patterns	William C. Whiteford
47	Wisely, Samantha	Ecosystem Functions and Adaptive Capacity of Human Livelihoods in a Biodiversity Hotspot in Southern Africa	Grenville Barnes, Mark Brown, Hollie Hall, Nicola Kernaghan, Gregory Kiker, Joseli Macedo, Robert McCleery, Sarah Mckune, Sandra Russo, Richard Stepp, Brijesh Thapa and Samantha Wisely
48	Alonso, Alice	Understanding the Hydrological Behaviour of a NW Costa-Rican Watershed	Alice Alonso, R. Muñoz-Carpena, M.A. Campo-Bescós
49	Borisova, Tatiana	Effectiveness of Non-Price Water Conservation Strategies: A Case Study	Tatiana Borisova and Stacie Greco
50	Mccaffrey, Joanna	Idigbio Addresses Impacts to Biodiversity Via NSF's Grand Challenge	Joanna Mccaffrey, David T. Jennings, Kevin Love and Larry M. Page
51	Settle, Quisto	Public Opinion of Water Issues in Florida	Alexa J. Lamm and Quisto Settle
52	Wagner, Ana	Relationship Between Vegetation Index (NDVI/EVI) and Agricultural Reference Index for Drought (ARID) in the Pampa Grasslands in South America	Ana Wagner, Eduardo Gelcer, Clyde W. Fraise and Denise Fontana
53	Adams, Chuck	Comprehensive Artificial Reef Program Meets Stakeholder Needs	Bill Lindberg, John Stevely, Chuck Adams and Bryan Fluech
5	Adewopo, Julius	Long-Term Soil C Sequestration Under Three Subtropical Grassland Management Systems	Julius B. Adewopo, Maria L. Silveira and Stefan Gerber
55	Amit, Ronit	Motivations to Prevent Damage at Ranches Affected by Jaguars and Pumas in Costa Rica	Ronit Amit and Susan K. Jacobson
56	Brown-Salazar, Ricardo	On the Way to Sustainability: The Community-Based Forest Management Experience in Darien, Panama	Ricardo Brown-Salazar and Carlos Espinosa Peña Raul Majore
57	Cademus, Ronald	Evaluating and Mapping Interaction Among Multiple Ecosystem Services	Ronald Cademus, Francisco Escobedo, Amr Abd-Elrahmn and Matthew J. Cohen
58	Campo-Bescós, Miguel	Combined Spatial and Temporal Effects of Environmental Covariates on NDVI in Southern Africa Savanna	R. Muñoz-Carpena, M. Campo-Bescós, D. Kaplan and J. Southworth

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59	Convertino, Matteo	Design of Monitoring Networks by Value of Information Optimization: Experiment in the Amazon	Matteo Convertino, Rafael Munoz-Carpena, Gregory A. Kiker and Stephen G. Perz
60	Creswell, R. Leroy	Oyster Restoration in the Indian River Lagoon — Re-Establishing Ecosystem Services	R. Leroy Creswell
61	Havens, Karl	Lake Okeechobee: Hydrology and Ecology Under a Possible 2060 Climate Regime	Karl E. Havens
62	Haynes, Nia	Attracting Underrepresented Groups to Wildlife Professions: Understanding Barriers and Attitudes Towards Careers	Nia Haynes
63	Kreye, Melissa	Preferences for Attributes of Forest Conservation Programs that Protect Water Quality in Florida	Melissa M. Kreye, Damian Adams, Francisco Escobedo and Jose Soto.
64	Kreye, Melissa	Collaborative Solutions for Sponsoring Forest Conservation Research and Outreach.	Melissa M. Kreye, Taylor Stein, Holly Ober, Leda Kobziar, Kimberly Bohn, Damian Adams and Nancy Peterson.
65	Lietze, Verena	Hydrilla Integrated Pest Management Risk Avoidance and Mitigation Project	Joan P. Bradshaw, James P. Cuda, Jennifer L. Gillett-Kaufman, Ken Gioeli, Raymond L. Hix, Verena-Ulrike Lietze, William A. Overholt and Judy F. Shearer
66	Liu, Lin	Deposition and Transport of Graphene Oxide in Unsaturated Porous Media	Lin Liu, Bin Gao, Lei Wu
67	Mahan Jr., William T.	Extensions' Expanding Roles in Emergency Management and Community Resilience in Franklin County	William T. Mahan Jr.
68	Mccray, Jame	Sea Turtle Friendly Lighting: Law, Science, and Policy	Jame Mccray
69	Mclaughlin, Daniel	Managing Forests for Increased Water Yield in the Southeastern U.S. Coastal Plain	Daniel L. McLaughlin, David A. Kaplan and Matthew J. Cohen
70	Montes, Nancy	Modeling the Spatial and Temporal Distribution of Recreational Boating off the Coast of Northeast Florida to Determine its Implications for the Conservation of the North Atlantic Right Whale.	Nancy Montes, Robert Swett, Charles Sidman, Susan Jacobson and Susan Cameron Devitt
71	Raid, Richard	Utilization of Barn Owls for Sustainable Rodent Control in the Everglades Agricultural Area and their Unique Role with Respect to Education and Outreach	Richard N. Raid
72	Ritan, Dickson	Biodiversity Threats and Tourism in Kenya Parks and Reserves	Dickson K. Ritan and Susan K. Jacobson.
73	Schuman, Carrie	Between the River and the Deep Blue Gulf: Oyster Restoration in the Face of a Changing Environment	Carrie Schuman, Jennifer Seavey, Peter Frederick and Bill Pine
74	Srifa, Akeapot	Relationships Between Cyanobacterial Blooms and Zooplankton Communities in the Lower St. Johns River in a Changing World	Akeapot Srifa, Linghan Dong and Edward J. Phlips
75	Wells, Ondine	Protecting Seagrass in Pine Island Sound by Engaging Diverse Stakeholders	Paul Monaghan, Joy Hazell, Ondine Wells and Eric Stubbs
76	Wightman, Maxwell	Loblolly Pine Water Relations in Response Tto Fertilization and Throughfall Exclusion	Maxwell Wightman, Tim Martin, Eric Jokela, Carlos Gonzalez-Benecke and Wendell Cropper
77	Williams, Caroline	Mechanisms of Cold Tolerance in <i>Drosophila Melanogaster</i>	Caroline M. Williams, Miki Watanabe, Laura Castellanos, Rachael Silverberg, Theodore Morgan, Arthur S. Edison, Arezue Boroujerdi and Daniel A. Hahn

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## NOTES





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