
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.

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 strategy 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 _o) 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

Poster #	Presenter Name	Title Of Poster	Poster Authors
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. Ramirez-Rodrigues, Senthod 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 Shaky, Senthod Asseng, Sabine Grunwald, Ariana 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 Commerical 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, Senthod 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 Opportunitites	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