

Virginia Bioenergy Network
Annual Meeting

Biomass for Energy, Economy and Nature



September 10th – 11th, 2013
Longwood University – Farmville, Virginia



We thank our sponsors and partners for supporting our annual meeting!

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Virginia Department of Agriculture and Consumer Services

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Please visit the exhibits

VBN Meeting Agenda - Tuesday, September 10th

7:30 a.m. Registration, Refreshments and Exhibits

8:00 a.m. Opening Comments – Opening and Host’s Welcome

Al Weed, Retired Executive Director, Public Policy Virginia

Richard Bratcher, Longwood University Facilities & Real Property

8:30 a.m. First Morning Session – Biomass Energy Markets I

A brief overview of biomass resources in Virginia

John Ignosh, Virginia Cooperative Extension

Conversion Technologies – scale appropriate anaerobic digestion, combustion, gasification, and combined-heat and power

Jactone Arogo Ogejo, Virginia Tech – anaerobic digestion of wet feedstocks

Steve Langseth, Langseth Engineering – thermal conversion of dry feedstocks

10:00 a.m. Morning Break and Exhibits

10:30 a.m. Second Morning Session – Biomass Energy Markets Session II

Financing - Laurette Tucker, USDA Rural Development & Steve Versen, Virginia Department of Agriculture and Consumer Services

11:30 a.m. State and National Legislative Roundup

Virginia – Mitch King, Old Mill Power Company

Federal – Joseph Seymour, BTEC

12:00 p.m. Lunch Speaker – Mayor George Fitch, Warrenton, Va

- **Virginia BBQ: Choice of Virginia Style Pork BBQ or BBQ Chicken Breast**
- **Rolls, Coleslaw, Potato Salad, Baked Beans, Watermelon**
- **Choice of Cookies, Brownies, Water and Lemonade.**
- ***Vegetarian Option Available.***

VBN Meeting Agenda-Tuesday, September 10th

- 1:00 p.m. First Afternoon Session – Emerging Biomass Markets – Ecosystem Services**
Energy to Ecosystem Services – A systems approach
[Chandler Van Voorhis, Managing Partner, GreenTrees](#)
Grass buffers, water quality and wildlife
[Glen Stevens, Ferrum College](#)
Wildlife and biomass feedstocks from perennial landscapes
[Robert Glennon, Conservation Management Institute](#)
Water supply – grey and green infrastructure optimization
[Michael Collins, Executive Director, the Center for Natural Capital](#)
- 2:30 p.m. Afternoon Break and Exhibits**
- 3:00 p.m. Second Afternoon Session – Breakouts**
Longwood Heating Plant Tour
[Ben Myers, Director Physical Plant, Longwood University](#)
Biomass/Bioenergy Market Development and Policy Strategy Roundtable
[Larry Cummings, Trane Marketing Leader & Strategic Planner and Eldon James, Eldon James and Associates](#)
Biomass/Bioenergy State and Regional Networking Strategy Roundtable
[John Bonitz, Southern Alliance for Clean Energy & Brian Becker, Center for Natural Capital](#)
- 4:30 p.m. Findings and Discussion – Path Forward**
[Michael Collins, Executive Director, the Center for Natural Capital](#)
- 5:30 p.m. VBN Networking and Biomass for the Bay Social**
Join us at Charley’s Waterfront Café in downtown Farmville for Chesapeake Bay oysters on the half-shell and crab cake hors d’ oeuvres! Special Thanks to FDC Enterprises for their generous sponsorship of this event!

VBN Meeting Agenda - Wednesday, September 11th

An optional tour has been arranged for Wednesday morning. You are asked to take your own vehicles, so that you may depart at your convenience. Our first stop will be at Piedmont Geriatric Hospital, where after 25 years of heating 370,000 sq ft with sawdust, they have begun the process of converting to using warm season grasses for fuel. Following PGH we will stop at the Blackstone Conference and Retreat Center where they are in the process of replacing their ageing No. 2 fuel oil system with a biomass system to meet the thermal demand for the 150,000 square foot facility. Finally we will be touring the FDC Enterprises/Nottoway County Native Warm Season Grass aggregation and processing center where locally grown and harvested grasses are stored and processed into boiler-ready fuel.

- 8:00 a.m. Depart Farmville for Piedmont Geriatric Hospital**
[5001 East Patrick Henry Highway, Burkeville, VA 23922 - US 460 E to E Patrick Henry Hwy/US-360E/US-460 E towards Richmond/Petersburg. Take US-360 E/E Patrick Henry Hwy toward Richmond, Rt onto Crape Myrtle Road, follow around to Power Plant Rd, you should see the smokestack.](#)
- 8:30 a.m. Tour of Piedmont Geriatric Hospital (PGH)**
- 9:30 a.m. Depart PGH for Blackstone Conference and Retreat Center**
[707 Fourth Street, Blackstone VA 23834 – US 460 E to Blackstone, Rt turn on S Main St/VA-40, second left onto E 4th st.](#)
- 10:00 a.m. Tour Blackstone Conference and Retreat Center (BCRC)**
- 11:00 a.m. Depart BCRC for Native Warm Season Grass Aggregation and Processing Center**
[US 460 E to Rt 40 E to Dearling Rd, about 1/3 mile down Rt turn onto Butterwood Rd, second dirt rd on left](#)
- 11:30 Tour of the Native Warm Season Grass Aggregation and Processing Center**
- 12:30 End of Tour – depart when ready and safe travels!**

Speakers Biographies

Brian Becker, Program Manager, Virginia Biomass Solutions and the Community Wood Energy Program

Brian has more than 15 years experience working with biomass management for local businesses, phytoremediation, and energy production. He manages the Center for Natural Capital's Virginia Biomass Solutions and the Virginia Community Wood Energy Programs. Prior to the Center he directed the Community Power Initiative at Public Policy Virginia where he connected community energy needs to rural economic revitalization via small-scale, combined heat and power technology fueled with locally produced biomass. Before moving to Virginia, Brian spent six years managing the Phytoremediation and Short Rotation Woody Crops Program at the University of Florida's School of Forest Resources and Conservation, experimenting with fast-growing trees in the field to improve phytoremediation of brownfield, mine land reclamation and dedicated bioenergy feedstocks. He served for three years in the US Peace Corps as a Community Forester in the Himalayan Kingdom of Nepal, holds a B.S. from Kansas State University in Anthropology, Wildlife Biology, and Natural Resources and Environmental Sciences and a M.S. from the University of Florida with a specialization in Agroforestry.

Daryl Bishop, CEM. General Manager, Pepco Energy Services

Mr. Bishop has a broad range of experience spanning 35 years in the energy sector. His energy experiences began in April of 1978 with Virginia Power designing electrical distribution systems. It later included developing renewable and conservation projects, selling power on the wholesale market and managing and developing energy programs for state and local government. He has published many articles on conservation techniques and a book title "Building An Energy Team". He has served on the Board of Directors for the Virginia Sustainable Building Network as well as many other industry groups. He joined Pepco Energy Services in 2004. As General Manager for Pepco Energy Services, he is responsible for developing the Virginia Market for Performance Contracting. He is a 1977 graduate of Virginia Tech.

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John Bonitz, Farm Outreach and Policy Advocate

John works with farmers, woodland owners, and other rural interests in NC, SC, and TN, providing information about bioenergy. John's work promotes sustainable utilization of biomass for electricity and fuel production, with an emphasis on state and federal policies. He serves in an advisory capacity to the Steering Committee of the Southern Agriculture & Forestry Energy Resources (SAFER) Alliance, on the Communications Council of the NC Biofuels Center, and is an active member of the Biomass Councils in North and South Carolina. John joined the SACE staff in April 2007. The son of a dairy farmer, John previously worked for the Rural Advancement Foundation International (RAFI-USA), Piedmont Biofuels Cooperative, Chatham Marketplace Cooperative Grocery, the National Renewable Energy Laboratory (NREL), the NC Department of Environment and Natural Resources (NC DENR), and in the environmental consulting field. During his tenure with Piedmont Biofuels Cooperative the group received the 2005 Sustainability Award for work in cutting-edge technologies that build the infrastructure for sustainable products or services (award conferred by Sustainable North Carolina). John studied towards a Masters Degree in Public Policy at University of Maryland College Park and completed his Bachelor of Arts in Environmental Studies from University of North Carolina at Greensboro in 1992.

Richard W. Bratcher, Vice President for Facilities Management and Real Property, Longwood University

Richard Bratcher joined the Longwood family in 1994. In 2001, after the fire that claimed Ruffner and Grainger, he shifted from Vice President of Information and Instructional Technology to his current position as Vice President of Facilities and Real Property Management. Since then, he has been busy with several projects that have been transforming the University's physical infrastructure functionally, aesthetically, and sustainably. From 2001 to present, Mr. Bratcher has overseen the addition of 658,229 gross square feet in building space. This includes the rebuilt Ruffner and Grainger buildings; the LEED Gold certified Health and Fitness center and Jarman renovation; the new Communications and Theater Studies building; and the new Bedford Hall addition.

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Also during this period was the construction of Brock Commons; this addition of a campus-long walking space dotted with rain gardens and artwork initiated the transition to a green-space-dominant pedestrian campus. More recently, and arguably the most unique change in Mr. Bratcher's tenure, has been the conversion of the boiler plant to a biomass steam facility. This conversion proved cost beneficial as well as a successful steam source; the next step was the concept and currently ongoing construction of a fuel depot. The fuel depot is located on University-owned land that is being developed so that Longwood can process its own biomass fuel from raw resources. Education: Bachelor of Arts -Urban Affairs: Virginia Tech, Master of Urban Affairs: Virginia Tech.

Michael Collins, Executive Director of the Center for Natural Capital

Michael Collins is an environmental entrepreneur and the Executive Director of the Center for Natural Capital and the Natural Capital Association. He is a former professional local and regional government planner, well driller, water resources consultant, environmentally-friendly building supply store owner and public school science teacher.

Larry Cummings, Marketing Leader & Strategic Partnerships Virginia District, TRANE

Larry Cummings has worked for Trane since 2007. Prior to his current role of marketing leader & strategic partnerships for the Virginia district, Cummings held a sales manager position with Trane. Cummings works closely with strategic clients to solve energy and infrastructure challenges, and leads branding and partnering opportunities for all Trane vertical markets. He co-developed Go Green & Sustaining Virginia Challenges for the Virginia Association of Counties, the Virginia Municipal League, the Virginia School Board Association, the Virginia Association of Independent Schools and the Virginia Manufacturers Association. Prior to working for Trane, Cummings was a regional sales manager for a national quartz countertop manufacturer, held a general manager position for a commercial/residential historical renovation company in Richmond focused on historical properties, and a principal with Mercer Consulting Group (a Marsh McLennan

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Co), where he lead development of Health care practices in Western Europe, Latin America, Canada and Australia. Cummings earned a Bachelor of Science degree in marketing from Plymouth State College.

George Fitch, Mayor of Warrenton, Virginia

George Fitch is a three term mayor of Warrenton, Virginia. As mayor, he has received national acclaim for both fiscal reform and conservation efforts. He received the Preserve America Community Award from the White House for his growth management initiatives that have protected the environment and character of Warrenton and Fauquier County. Dubbed the Warrenton Miracle, he reduced taxes by over 75% without cutting a single service. He also launched a Green Initiative to reduce the carbon footprint by 25% by 2012 the centerpiece of which is an integrated biorefinery to use a variety of discarded local wastes and residues to produce electricity and fuel. He is a former diplomat having served as commercial attaché in Paris and Jamaica and Consul in Belize. He has represented the Caribbean Basin ethanol producers since 1990 and managed an ethanol plant in El Salvador. He also created and managed the Jamaica bobsled team which Disney immortalized in "Cool Runnings". He served on President Bush Advisory Council on International Trade Policy and Negotiation. He was born in China of missionary parents, attended the University of Singapore and has an MBA in international business from George Washington University. He speaks several languages.

Robert Glennon, Private Lands Biologist, Conservation Management Institute

Bob Glennon came to his current position in Smithfield after 30 years of Federal service with USDA, Natural Resources Conservation Service (NRCS) and the U.S. Fish and Wildlife Service (FWS). Bob spent most of the first half of his career in the NRCS plant materials program managing research centers and serving landowners and land managers from the states of Texas through Kentucky to Massachusetts and south to Florida. He collected and evaluated native grasses, forbs, and shrubs for use in conservation practices and assisted the public establish and manage plants for a variety of uses. Bob was the state ecologist for NRCS in Arkansas where he trained field employees and assisted landowners in wildlife

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habitat restoration and management, wetland restoration, and streambank stabilization. He was also a natural resource planner for FWS developing comprehensive conservation plans for the nine national wildlife refuges in northeastern North Carolina. Bob finished his career as a national program manager in NRCS headquarters in Washington, DC. He is a Certified Forester with the Society of American Foresters and a Certified Planner with the American Institute of Certified Planners.

John Ignosh, Area Specialist, Agri-based BI-Product Utilization, Virginia Cooperative Extension

John Ignosh works to promote the efficient utilization of biomass resources as an Area Specialist with Virginia Cooperative Extension and Virginia Tech's Department of Biological Systems Engineering. He is a Certified Energy Manager and Distributed Generation Certified Professional by the Association of Energy Engineers. He holds a master's degree in forest management and water resource science from the University of Minnesota, and has served as a forester with the U.S. Peace Corps in Guatemala. Prior to his work with Virginia Cooperative Extension, he performed air quality research with the University of California.

Eldon James, Principal, Eldon James and Associates, Inc.

Eldon James has spent 36 years working in and with Virginia state and local governments. Eldon received a Bachelor of Science in Recreation Resource Management and a Masters in Urban and Regional Planning from Virginia Commonwealth University. He spent the next seventeen years working for state and local government in positions with the Commission of Outdoor Recreation, the Cooperative Extension Service and King George County, the final five years as a county administrator. Eldon left King George county government to open Eldon James & Associates, Inc. in 1994 and has served as the principal of this public policy, planning, project and program management firm since then. The consulting firm's current clients include over a dozen Virginia localities, the Rappahannock River Basin Commission, the Virginia Association of Area Agencies on

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Ageing, the Virginia Goodwill (Industries) Network, the Virginia Recreation and Park Society, the Virginia Chapter of American Planning Association, the Virginia Chapter of American Planning Association, the Virginia Network for Victims and Witnesses of Crime and the Western Virginia Regional Jail.

Mitch King, Old Mill Power Company

Mitch King is the President of Old Mill Power Company, a Virginia-licensed competitive electricity supplier that sells renewable electricity and renewable energy certificates. Old Mill is a charter member of the Virginia Wind Energy Collaborative (VWEC). Since founding Old Mill in 1996, Mr. King has been a significant contributor to the many stakeholder meetings, regulatory proceedings, and legislative hearings that shape Virginia's energy-related public policies. In recent years, such contributions have included specific legislative and regulatory language amending and implementing various portions of Virginia's electric utility re-regulation bills, net metering law, and the Virginia Energy Plan, as well as proposals to improve Virginia's Renewable Energy Portfolio Standards. Mr. King serves on the Energy Advisory Committee of the Virginia General Assembly's Joint Commission on Technology and Science (JCOTS) and was a charter member of the Virginia Biomass Energy Group (VBEG).

Stephen Langseth, PE, President, Langseth Engineering

Stephen Langseth, PE recently started LANGSETH engineering to provide engineering services to the underserved small scale biomass market. The services provided include the entire biomass project cycle: feasibility studies, permitting support, multi-discipline design and construction support. Stephen received his BSCE from the University of Denver in 1975 and has thirty-five years experience in industrial design-build and biomass projects. As a Plant Engineer for Weyerhaeuser he developed the understanding of the impact of scale with the differences in biomass projects for (large-scale) pulp& paper and (small scale) wood products facilities. Mr. Langseth received the Weyerhaeuser Presidents Award for research and development of technology to control volatile organic compounds (VOCs) from wood products facility drying and pressing processes. This research led to the

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installation of the first biofilter using hogged fuel to control emissions from an OSB press vent.

Jactone Arogo Ogejo, Department of Biological Systems Engineering, Virginia Tech

Jactone's research program focuses on (1) understanding and advancing the knowledge of how aerial pollutants (such as ammonia, odorants, and greenhouse gases) are formed, released, and mitigated (primary interest are sources within animal feeding operations); (2) management of poultry and livestock manure and other agricultural residues to recover nutrients (phosphorus and nitrogen) and energy with a goal to minimize their environmental pollution potential; and (3) development of process based models to quantify gaseous emissions from sources within animal feeding operations. He works with colleagues in agricultural economics, crop and soil environmental sciences, dairy science, and environmental engineering on different elements research. An example of his work on managing manure nutrients effectively uses the concept of "designer manures" defined as the development of manure management technologies that produce manures with the appropriate balance of N and P fertilizer values required by different crops. For example, removing the excess P using the designer manure concept allows the continued use of manure as a fertilizer in areas that may be restricted by the P-based manure application regulations. The designer manure concept is a successfully demonstrated chemical treatment technology at field scale for large manure volumes (batch) that can be used in dairy farms with liquid manure storage systems to help them meet the new nutrient management regulations.

Joseph Seymour, Executive Director, Biomass Thermal Energy Council

Joseph works with clean energy companies, organizations, and advocates creating a better business environment for their products and services, while--hopefully--improving the natural environment. He specializes in guiding associations around and over the policy, regulatory, and adoption barriers in regional and national markets. These activities

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include leading policy and standards committees, speaking at trade shows and conferences, drafting regulatory responses, tracking state legislation, and fundraising. As Executive Director of the Biomass Thermal Energy Council, Joseph advances the use of biomass for heat and other thermal energy applications through targeted membership growth, legislative tracking, Hill visits, regulatory responses, legislative research, policy analysis, focused messaging, and coordinating industry wide action. Joseph is also the Policy and Governmental Affairs Coordinator for the Renewable Energy Markets Association where he is responsible for compliance market tracking, monitoring and reporting; drafting regulatory and rule making responses to state and federal agencies; coordinating member and industry wide action; and development of supportive marketing and educational materials for the renewable energy markets.

Glen Stevens, Assistant Professor of Biology and Environmental Science, Ferrum College

Glen has been at Ferrum College since 2008 where he teaches a variety of biology and environmental science courses. His research interests integrate the fields of restoration ecology, sustainable energy and soil ecology. The majority of his current work is focused on the restoration of native grasses, such as switchgrass and other native prairie grasses, within Virginia and the Chesapeake Bay region, that are closely tied to societal interests in biomass energy, water quality and the restoration of soil fertility. Glen earned his BS in Environmental Science at Ferrum College in 1997, a MS ('01) and a PhD ('05) in Biology from Virginia Tech, held a Postdoc at UC Davis ('05-07) and worked as a Research Scientist at the Conservation Management Institute ('07 – 09) prior to his current position.

Laurette Tucker, Rural Business Specialist – Energy Coordinator, U.S. Department of Agriculture

Laurette Tucker graduated from Virginia Commonwealth University with a major in Business Administration and Management and a minor in Psychology. Laurette is a Rural Business Specialist for USDA Rural Development and currently serves as the Renewable

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Energy and Value Added Producer Grant Coordinator for the State of Virginia. She has served in several capacities within Farmers Home Administration and Rural Development for 24 years.

Chandler Van Voorhis, Partner and Chief Development Officer of C2I, LLC.

Chandler Van Voorhis co-founded C2I, LLC, a leader in conservation capitalism. The company plants, grows, and sells permanent forests. Capturing all the integrated assets forests house - biodiversity, carbon, nutrients, water credits - the GreenTrees program is today America's largest forest carbon origination pipeline. The company aims to plant 1,000,000 acres and turn forest environmental capital into a conservation currency called ACRE (Advanced Carbon Restored Ecosystem) that externalizes our natural capital. Previously, Van Voorhis for seven years co-hosted GreenWave Radio, a nationally syndicated talk show on the environment and business. In 2002, he was awarded the ChevronTexaco Conservation Award, nation's most distinguished private award in conservation. He is a member of the Outdoor Writers Association of America and has authored several chapters in books as well as articles on marketplace conservation, environmental leadership, and energy.

Stephen Versen, AFID Grant Fund Coordinator, Agriculture & Forestry Development Services, Virginia Department of Agriculture and Consumer Services

Stephen Versen's role at the Virginia Department of Agriculture and Consumer Services (VDACS) is to provide business development assistance to agriculture- and forestry-based businesses. Stephen connects prospective new and expanding businesses with financial resources, business planning tools and other resources to help them become successful, creating new jobs, new markets for Virginia agricultural and forestry products, and new revenue sources for farms and communities in Virginia. He serves as the agency's primary contact for bio-energy projects and is the point person for the new Governor's Agriculture and Forestry Industries Development fund. Stephen's former work experience includes

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the Virginia Department of Housing and Community Development, where he assisted communities with their downtown revitalization efforts as an administrator of the Virginia Main Street program. Prior to that he worked for the City of Staunton's Department of Economic Development. Stephen graduated from James Madison University with a Bachelors of Business Administration (Econ & History Majors) and received his Masters of Urban and Regional Planning from Virginia Commonwealth University.

Albert C. (Al) Weed II, Former Executive Director, Public Policy Virginia

Albert C. (Al) Weed II, owns and operates Mountain Cove Vineyards in Nelson County. He has a BA (cum laude) from Yale and a Master's Degree Princeton's Woodrow Wilson School. He served in the military for almost 43 years, mostly in the Reserve Components, retiring from Army Special Operations as a Command Sergeant Major. Al worked for the World Bank and the Arthur Lipper Corporation before settling on a farm in Central Virginia. He is a founder of Virginia's farm wine industry, now the fifth largest in the nation. Al served two terms on the Virginia Land Conservation Foundation's Board of Trustees, and has been involved in land conservation efforts for many years.

NOTES

Upcoming Bio-Energy Events

September 20 – 21, 2013 Mid-Atlantic Logging & Biomass Expo – Selma-Smithfield, North Carolina. <http://midatlantic-logging-biomass-expo.com>

September 24, 2013, Webinar, 12 – 1 pm EST Life Cycle Assessment of Cellulosic Biofuels and Bio-Energy. www.bioenergywebinars.net

October 4, 2013, Webinar, 11 – 12 pm EST Branding the South as a Bioenergy Leader. <https://southern.ilinc.com/register/bkpmrxw>

October 20, 2013 Advancing Sustainable Woody Energy in Maryland – Annapolis, MD, 2013 Maryland Wood Energy Conference, Sponsored by the Maryland Wood Energy Coalition. For information go to www.agroecol.umd.edu or contact Nancy Nunn (nnunn@umd.edu)

November 13 – 15, 2013 North Carolina Exports Wood Conference, New Bern, North Carolina. <http://www.ncexportswood.com>

November 16 – 19, 2013 Wood Stove Decathlon – The Alliance for Green Heat Wood Stove Decathlon on the National Mall, Washington, DC. <http://www.forgreenheat.org/stovedesign.html>

April 9 – 11, 2014 Northeast Biomass Heating Expo & Conference, Portland, Maine. <http://nebiomassheat.com/>

April 23 – 24, 2014 Mid-Atlantic Biomass Heat and Power Conference – Gettysburg, Pa, organized by the PA Biomass Energy Association. <http://www.supportpbiomass.org/pbeaconference/>

About the Center for Natural Capital

The Center is a 501 c-3 applied research, education, and eco-jobs creation organization focused on the use of community economic development through ecosystem health in four areas – energy, rivers, landscape, and people.

The Center for Natural Capital (CNC) is a 501 c-3 charitable organization created in 2013 through the merger of Public Policy Virginia, Inc. and Association of Conservation Real Estate dba Conserv. The Center is governed by a 13 member Board of Directors. It has a small staff composed of full time and part-time employees with a consortium of contractors it works closely with as opportunities for collaboration arise.

CNC's vision is to create, optimize, and integrate natural capital solutions into the marketplace. We pose a simple but profound question. What would our economy and quality of life look like if we fully integrated our natural systems into the world of commerce? At The Center for Natural Capital, we start each day with the goal of utilizing the abundance of human ingenuity and organizational energy to solve problems and move innovation into transactions of change. This challenge represents the greatest frontier for improvement in our relationship with the environment. It allows us to view our natural capital for more than its intrinsic value, and engage the power of entrepreneurship to improve our ecosystems and our economy. The primary channels of The Center for Natural Capital are Energy, Rivers, Landscape, People and the unlimited points of intersection among them.

The Natural Capital Association (NCA) is a 501 c-6 sister organization to the Center with an emerging mission to support the Center through advocacy and trade services. More about CNC and NCA can be found at www.naturalcapital.us.



Center for Natural Capital

Economic Development through Healthy Ecosystems

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