LEADERSHIP SUMMIT
OCTOBER 28-30, 2018 | CENTRAL GROUNDS | UNIVERSITY OF VIRGINIA

SUSTAINABILITY.VIRGINIA.EDU
As the University of Virginia moves into its third century, the University is well-positioned to be a leader in addressing the world’s most pressing global challenges, through interdisciplinary innovation and collaboration in research, curriculum, and on-Grounds practices. UVA’s leadership role in environmental stewardship and broader social and economic sustainability issues has evolved and expanded over the past 200 years, with significant acceleration over the past decade.

In addition to addressing the University’s own environmental impacts, UVA supports over 130 sustainability related courses and hundreds of faculty involved in sustainability-related research. With an ever-increasing international focus and service-minded culture, UVA is creating future global development leaders, driven by UVA students’ desire to improve the world around them.

As these student leaders graduate, UVA alumni are extending the global reach of UVA’s role in addressing the world’s most pressing environmental challenges.

TEAM LEADS:
ANDREA RUEDY TRIMBLE, OFFICE FOR SUSTAINABILITY;
NINA MORRIS, OFFICE FOR SUSTAINABILITY

PHOEBIE CRISMAN, SCHOOL OF ARCHITECTURE
JONAH FOGEL, ENVIRONMENTAL RESILIENCE INSTITUTE
LELA GARNER, OFFICE FOR SUSTAINABILITY

CHERYL GOMEZ, FACILITIES MANAGEMENT
CHRISTIE JULIEN, CAREER CENTER
KELLY KENNEDY, CAREER CENTER
Today’s alumni are on the frontlines of sustainable research and practice and can provide insight into today’s greatest challenges. UVA continually explores cutting edge curriculum and research, transforming prospective students into tomorrow’s leaders in a wide variety of fields, and defining new disciplinary boundaries.

UVA’s deeply held values of honor, diversity, student self-governance, and public service have fostered a strong network of sustainability programs that support individual and community engagement on Grounds and beyond. Thank you for engaging with us through the Bicentennial Sustainability Leadership Summit. We invite your continued support to advance a shared, holistic vision for UVA sustainability leadership.
FRIDAY, OCTOBER 26, 2018

12:00-5:00 PM | SPECIAL COLLECTIONS
Parallel Event: Global Water Initiative Graduate Student Water Symposium

SATURDAY, OCTOBER 27, 2018

9:30 AM-12:00 PM | ALUMNI HALL
Parallel Event: Sustainability Tailgate - Alumni Association Tailgate

SUNDAY, OCTOBER 28, 2018

4:00-6:00 PM | ROTUNDA DOME ROOM
UVA Sustainability Innovation and Global Impact - Faculty Flash Talks and Reception

- Welcome: Andrea Ruedy Trimble, Director, UVA Office for Sustainability
- Ellen Bassett - Faculty, School of Architecture; Chair, Urban and Environmental Planning Department; Leader, African Urbanism Humanities Lab
- Jon Cannon - Faculty, School of Law; Director, Environmental and Land Use Law Program
- Andres Clarens - Faculty, School of Engineering and Applied Science; Associate Director, Environmental Resilience Institute
- Phoebe Crisman - Faculty, School of Architecture; Director, Global Sustainability Initiative
- Paul Freedman - Faculty, Arts & Sciences - Politics; Founding Member, UVA Food Collaborative
- Jim Galloway - Faculty, Arts & Sciences - Environmental Sciences; Founder, Nitrogen Footprint Network
- Deborah Lawrence - Faculty, Arts & Sciences - Environmental Sciences
- Karen McGlathery - Faculty, Arts & Sciences - Environmental Sciences; Director, Environmental Resilience Institute
- Bill Shobe - Faculty, UVA Frank Batten School of Leadership and Public Policy; Director, Center for Economic and Policy Studies, Weldon Cooper Center for Public Service
- Mark White - Faculty, UVA McIntire School of Commerce, McIntire Certificate in Sustainable Business

MONDAY, OCTOBER 29, 2018

8:00-9:00 AM | NEWCOMB LOUNGE
Registration and Breakfast/Coffee

9:00-10:30 AM | NEWCOMB BALLROOM
Welcome and Opening Keynote - A Shared Vision for Sustainability at UVA

- James E. Ryan - President, University of Virginia
- Phoebe Crisman - Co-Chair, Committee on Sustainability; Faculty, School of Architecture; Director, Global Sustainability Initiative
- Cheryl Gomez - Co-Chair, Committee on Sustainability; Director of Operations, Facilities Management
- Ian Baucom - Dean, Arts & Sciences
- Ila Berman - Dean, School of Architecture
- Risa L. Goluboff - Dean, School of Law
- Catherine Bradshaw - Associate Dean, Curry School of Education
- Pamela Norris - Executive Dean, School of Engineering and Applied Science
10:45-11:45 AM | NEWCOMB HALL
Breakout Sessions - Engage, Steward, & Discover

Engage - Environmental Justice in Virginia | Commonwealth Room
- Tanya Denckla Cobb - Director, Institute for Environmental Negotiation; Faculty, School of Architecture
- Frank Dukes - Distinguished Institute Fellow, Institute for Environmental Negotiation
- Meryem Karad - Confidential Assistant to the Secretary of Natural Resources
- Janet Phoenix - Chair, Governor’s Advisory Council on Environmental Justice; Faculty, George Washington University Milken Institute School of Public Health

Steward - Global Trends in Water and Energy | Kaleidoscope Room
- Cheryl Gomez - Director of Operations, Facilities Management; Co-Chair, Committee on Sustainability
- Eamon Perrel - Vice President of Business Development, Apex Clean Energy, Inc.
- Brian Richter - Faculty, School of Architecture
- David Sligh - Conservation Director, Wild Virginia
- Kyle West - SVP Development, Coronal Development Services

Discover - Interdisciplinary Faculty Sustainability Research | Gallery
- Karen McGlathery - Faculty, Arts & Sciences; Director, Environmental Resilience Institute
- Ellen Bassett - Faculty, School of Architecture; Chair, Urban and Environmental Planning Department
- Victoria Shen - Faculty, Arts & Sciences - Politics
- Jay Shimshack - Faculty, Frank Batten School of Leadership and Public Policy

12:00-1:30 PM | ALUMNI HALL BALLROOM
Lunch + Talk: Envisioning a Sustainable Future
- Kevin J. Fay - moderator - Chairman, UVA Foundation Board of Visitors; Vice Chairman and CEO, Alcalde and Fay, former UVA BOV member
- Willis Jenkins - Faculty, Arts & Sciences – Religious Studies
- Michael Lenox - Faculty, Darden School of Business; Faculty Director, Darden Business Innovation and Climate Change Initiative

1:45-3:00 PM | NEWCOMB HALL
Breakout Sessions - Engage, Steward, & Discover

Engage - Sustainable, Resilient Communities for All | Commonwealth Room
- Barbara Brown Wilson - Faculty, School of Architecture
- Shantell Bingham - Senior Adviser, Charlottesville Food Justice Network
- Frank Dukes - Distinguished Institute Fellow, Institute for Environmental Negotiation
- Sunshine Mathon - CEO, Piedmont Housing Alliance

Steward - Big Data in the Service of Sustainability | Kaleidoscope Room
- Angela Orebaugh - Faculty, School of Continuing and Professional Studies
- Celeste Greene - Faculty, School of Continuing and Professional Studies
Discover - Educating the Next Generation of Sustainability Leaders | Gallery

- Guoping Huang - Faculty, School of Architecture
- Gerard Learmonth - Faculty, Data Science Institute
- Jim Galloway - Faculty, Arts & Sciences - Environmental Sciences
- Phoebe Crisman - Faculty, School of Architecture; Director of Global Sustainability Initiative, co-chair, Committee on Sustainability
- Christie Julien - Associate Director, Science and Sustainability, Career Center
- Jaime Van Mourik - Vice President for Education, U.S. Green Building Council
- Bill Shobe - Faculty, UVA Frank Batten School of Leadership and Public Policy

3:15-4:30 PM | NEWCOMB HALL
Breakout Sessions - Engage, Steward, & Discover

Engage - Advocacy and the Art of Persuasion | South Meeting Room
- Deborah Lawrence - Faculty, Arts & Sciences – Environmental Sciences
- Thomas Bateman - Faculty, McIntire School of Commerce
- Dyanna Jaye - Sunrise Movement
- Wendy Philleo - Executive Director, Generation 180

Steward - Health and the Environment | Commonwealth Room
- Rebecca Dillingham - Director, Center for Global Health
- Samantha Ahdoot - Assistant Professor of Pediatrics, Virginia Commonwealth University School of Medicine Inova Campus
- Jenny Roe - Faculty, UVA School of Architecture; Director, Center for Design & Health
- Matt Trowbridge - Faculty, UVA School of Medicine

Discover - Students Researching Sustainability Challenges | Kaleidoscope Room
- Jonah Fogel - Program Manager, Environmental Resilience Institute
- Aubrey Doede - Graduate Student, School of Nursing
- Krista Rand - Graduate Student, Systems and Information Engineering
- Charles Scafie - Graduate Student, Environmental Sciences
- Additional student speakers TBA

6:00-8:00 PM | COMMON HOUSE
Sustainability Pitch Night and Celebratory Reception
- Emcee: Paul Beyer - Founder and Director, Tom Tom Foundation and Festival
- Judge: Rich Diemer - Co-Chairman of the Board and Treasurer, CAV Angels
- Judge: Rick Grossberg - member, CAV Angels Richmond Chapter
- Judge: Devin Welch - Co-Founder, Sun Tribe Solar

TUESDAY, OCTOBER 30, 2018
8:00-9:00 AM | NEWCOMB LOUNGE
Registration and Breakfast/Coffee
9:00-10:30 AM | NEWCOMB BALLROOM
Global Sustainability Trends Across Sectors – Alumni Flash Talks
• David Lapinski - flash talk moderator; Director of Employer Relations, UVA Career Center
• Christie Julien – roundtable moderator; Associate Director – Science and Sustainability, UVA Career Center
• Thomas Woltz - Principal, Nelson Byrd Woltz Landscape Architects
• John G. MacFarlane III - Arrochar Management LLC, Darden School of Business
• Fatima Maria Ahmad - Senior Solutions Fellow, Center for Climate and Energy Solutions
• Nathaniel Allen - Science and Technology Fellow, U.S. Department of Energy
• Morgan Butler - Senior Attorney, Southern Environmental Law Center
• Caroline Cold D’Angelo - Sustainability Advisor, U.S. Department of State
• Bernard Harkless - Principal, Lynx Ventures
• Beth Heider - Chief Sustainability Officer, Skanska
• Grey McLean - Founder, Charlottesville Climate Collaborative
• John McMahon - Owner and Founder, Schulyer Greens
• Kristel Riddervold - Environmental Sustainability Manager, City of Charlottesville
• Kyle Rudzinski - Director, Strategy for Sustainability at Levi Strauss & Co.
• Jaime Van Mourik - Vice President, Education Solutions, U.S. Green Building Council

10:45 AM-12:00 PM | NEWCOMB BALLROOM
Roundtable Discussions - Translating Ideas into Action Across Sectors

12:00-12:15 PM | NEWCOMB BALLROOM
Closing Remarks - A Call to Action | Cheryl Gomez & Phoebe Crisman

12:00-2:00 PM | NEWCOMB SOUTH MEETING ROOM
Parallel Event: Women in Green Leadership Luncheon
• Sydney Covey - Sustainability Solutions Manager, STRUCTR Advisors
• Bryna Dunn - Vice President and Director of Sustainability Planning, Moseley Architects
• Kristel Riddervold - Environmental Sustainability Manager, City of Charlottesville
• Andrea Ruedy Trimble - Director, UVA Office for Sustainability
• Jaime Van Mourik - moderator; Vice President, Education Solutions, U.S. Green Building Council

12:00-4:00 PM | HUME PLAZA - OUTSIDE OF NEWCOMB HALL
Parallel Event: Farmers Market

1:30-4:00 PM | GROUNDS
Sustainability Tours
• 1:30-2:30 - Tour 1A: District Energy at UVA | Main Heat Plant
• 2:30-3:00 - Tour 1C: Stormwater Innovation at The Dell | Across from Central Grounds Parking
• 3:00-4:00 - Tour 1B: Rooftop Solar at UVA | Ruffner Hall

FOR ALL SPEAKERS’ BIOS, VISIT THE SPEAKER BIO PAGE OR SUSTAINABILITY.VIRGINIA.EDU.
In 2016, UVA launched its first comprehensive Sustainability Plan engaging over one hundred stakeholders to build upon existing stewardship goals, adding robust waste, procurement, food, and water goals and actions, and committing to integrated goals related to community engagement, curriculum, and research.

The Sustainability Plan outlines 23 goals and 101 actions, including the development of Action Plans to provide the UVA community and its partners with transparent road maps of specific strategies for how the University seeks to meet its environmental stewardship goals.

UVA’s strategic sustainability framework seeks pan-university and interdisciplinary connections at all levels of the University to ENGAGE our community and build sustainability awareness, STEWARD our resources on Grounds and beyond, and DISCOVER solutions to global challenges through research, curriculum, and using the Grounds as a learning tool.

Funding provided for the 2016-2020 plan has accelerated implementation of the Sustainability Plan by catalyzing pilot initiatives into replicable and scalable longer-term solutions. This annual report highlights progress and a few examples of initiatives made possible by the funding. As we move into the second half of our five year plan, and as UVA moves into its third century, we have a pivotal opportunity to engage the UVA community in developing and implementing a shared longer-term vision for sustainability at UVA. The October 2018 Bicentennial Sustainability Leadership Summit will be a key next step in developing a shared vision for UVA’s leadership role in addressing the world’s most challenging sustainability issues.
ENGAGE

1. **Increase sustainability awareness** within the UVA community
2. **Increase sustainability engagement** beyond Grounds
3. **Incorporate social, environmental, and economical sustainability considerations** into strategic initiatives
4. **Cultivate healthy and equitable places** for learning, living, & working

DISCOVER

1. **Enhance sustainability research** and UVA's reputation as a locus of sustainability
2. **Enhance sustainability-focused teaching** and curricular development
3. **Utilize the Grounds as a learning tool** through collaboration between operational and academic units

STEWARD

1. **Reduce greenhouse gas emissions** 25% below 2009 levels by 2025
2. **Reduce building energy use intensity** 20% below 2010 levels by 2020
3. **Reduce reactive nitrogen losses** to the environment 25% below 2010 levels by 2025
4. **Reduce potable water use** 25% below 2010 levels by 2035
5. **Reduce the total tonnage of waste generated at UVA** 50% below 2014 amounts by 2035
6. **Landfill less than 2,000 tons of waste annually** by 2035
7. **Increase environmentally preferable purchasing** as a percentage of purchases
8. **Increase efficiency of UVA land and buildings** to limit the need for new construction
9. **Form connections through UVA and UVA Foundation lands**
10. **Enhance and expand** the number of sustainable and meaningful sites and buildings
11. **Annually increase the percentage of sustainable food and beverages available on Grounds**
12. **Reduce food waste and single-use food serving items** sent to landfills by 2035, in alignment with the overall UVA waste goals
13. **Reduce the energy and water impact** of dining operations
14. **Increase student, staff, and faculty awareness** of sustainable food systems
15. **Collaborate within UVA and with the region**, to advance sustainable food systems in the broader community
16. **Consider environmental, governance, social, and ethical issues** in managing institutional investment assets
There is phenomenal sustainability-related research, coursework, and leadership occurring at UVA in nearly every area of the University, with over 130 sustainability-related courses, over 300 faculty involved in sustainability-related research, over 30 sustainability-focused student groups and countless individuals. UVA is supporting current and future sustainability leaders for work in the sciences, social sciences, engineering, design, and the humanities. Pan-University collaborative teaching, research, and applied practice (Engage, Steward, and Discover) continues to grow, with extensive strategic collaboration that leverages the combined strengths of the University Committee on Sustainability, Environmental Resilience Institute (ERI), the Office for Sustainability, the Global Sustainability Initiative, and many more. To highlight some of UVA's work, the University Committee on Sustainability held a UVA Sustainability Summit in the Rotunda Dome Room in August 2017, featuring flash talks by 20 faculty members and highlighting UVA's leading global research and use of the Grounds as a living laboratory.

The University of Virginia has earned a STARS Gold rating in recognition of its sustainability achievements from the Association for the Advancement of Sustainability in Higher Education (AASHE). STARS, the Sustainability Tracking, Assessment & Rating System, measures and encourages sustainability in higher education. This is the University's third STARS certification. During the submission process, AASHE highlighted some standout areas at UVA – UVA's First-Generation College Graduates on Faculty Program (part of the Affordability and Access credit), UVA's increase in sustainable food and beverage purchasing, and UVA's exemplary leadership in nitrogen footprint assessments.
ENGAGE

- 92 events
- Over 5,000 event attendees
- 90 university & community partners
- Over 75,000 people impacted by outreach efforts

The Environmental Resilience Institute (ERI) was launched in 2017 as one of UVA’s four Pan-university institutes to address grand societal challenges. The ERI nucleates and supports interdisciplinary sustainability and resilience research at the intersection environmental change and human well-being. The ERI has built a diverse and collaborative community of over 200 people from 10 schools, 6 UVA centers/institutes, and many private/public stakeholders. External partnerships link research with policy and practice. Current priorities are Climate, Water, Energy and Health. Highlights include: 8 Collaborative Laboratories (CoLabs) established on Arctic warming, coastal resilience, and climate mitigation; 6 Rapid Research grants awarded in response to hurricanes Florence and Michael; 11 projects developed under UVA’s 3Cavs program, integrating faculty from 16 departments; 6-faculty cluster hire in Environmental Resilience; 3 Water Faculty Fellows; and 8 post-doctoral and student fellowships. To date, $550K has been invested in research and training.

STEWARD

GREENHOUSE GAS
- 18.9% reduction in GHG emissions
- 726 kWh of solar on Grounds

ENERGY
- 12% reduction
- $6.1 million in avoided utility costs from Delta Force Program in 2017

NITROGEN
- 9.6% reduction from baseline

BUILDINGS & LANDSCAPE
- Green Building Standards
- 52 LEED buildings

FOOD
- 8.6% sustainable food purchase (2% increase)
- First blended burger in VA higher education
- Green Restaurant certifications

WASTE & MATERIALS
- 15.2% less waste generation
- 6.0% more landfill

WATER
- 14.6% reduction from baseline
- First institutional “virtual” water footprint

DISCOVER

The Environmental Resilience Institute (ERI) was launched in 2017 as one of UVA’s four Pan-university institutes to address grand societal challenges. The ERI nucleates and supports interdisciplinary sustainability and resilience research at the intersection environmental change and human well-being. The ERI has built a diverse and collaborative community of over 200 people from 10 schools, 6 UVA centers/institutes, and many private/public stakeholders. External partnerships link research with policy and practice. Current priorities are Climate, Water, Energy and Health. Highlights include: 8 Collaborative Laboratories (CoLabs) established on Arctic warming, coastal resilience, and climate mitigation; 6 Rapid Research grants awarded in response to hurricanes Florence and Michael; 11 projects developed under UVA’s 3Cavs program, integrating faculty from 16 departments; 6-faculty cluster hire in Environmental Resilience; 3 Water Faculty Fellows; and 8 post-doctoral and student fellowships. To date, $550K has been invested in research and training.
EVP & PROVOST
- Environmental Resilience Institute
- Global Sustainability Major
- Global Sustainability Minor
- Food Collaborative
- Darden Business Innovation and Climate Change Initiative
- McIntire Sustainability certificate
- Morven Summer Institute

EVP FOR HEALTH AFFAIRS
- Health System Sustainability Committee

EVP & COO
- Facilities Management
- Office for Sustainability
- Environmental Resources
- Office of the Architect
- Transportation Demand Management Program
- Green Dining Program

VP AND CHIEF STUDENT AFFAIRS OFFICER
- Student Council Sustainability Committee
- 30+ sustainability-related student organizations – Green Leaders umbrella
- UVA Career Center - STEM & Sustainability Community
**HIGHLIGHTS: UVA SUSTAINABILITY-RELATED INITIATIVES**

**Pure Madi** - PureMadi’s mission is to prevent waterborne diseases through educating, training, and empowering resource-limited communities to produce and distribute an innovative point-of-use water treatment technology.

**UVA Global Water Initiative** - The UVA Global Water Initiative is pursuing a leading role in innovative research, policy advice and education that takes a holistic approach to water management.

**UVA Thriving Cities** - Thriving Cities Group is a nonprofit aligned with UVA that fosters healthier cities by disrupting and rebuilding the social and civic institutions that support community life.

**LinkLab** - The Link Lab is committed to cross-cutting research that transcends traditional disciplinary boundaries in order to make fundamental contributions to technology and engineering that are grounded in and applied to real-world problems to benefit the greater good.

**Center for Design and Health** - The goal of the Design + Health Lab is to foster and apply research to design solutions that allow human beings to be fitter, happier, more productive, age better, live longer, and help us all live together in a positive and meaningful way.

**Water and Health in Limpopo** - The Water and Health in Limpopo project is a collaboration between UVA and the University of Venda to develop and implement a model for community and university engagement to improve access to clean water and sanitation in South Africa.

**Behavioral Science for Sustainable Systems Program** - Interdisciplinary research for Ph. D Fellows to identify fundamental relationships between human-designed outcomes and intergenerational sustainability, stewardship, cognition, affect, and behavior.

**Morven Food Lab** - The center serves as a platform for food studies and collaborative initiatives between University faculty, staff and students as well as community-based organizations.
The University of Virginia’s Bicentennial Commemoration is a celebration of UVA’s achievements, a recognition of the imperfections of its past, and a visualization of its future. The story began 200 years ago with the creation of a new model for higher learning, one shaped by the belief that only educated citizen-leaders would be capable of sustaining freedom in a new republic. From Thomas Jefferson’s original conception of the Academical Village, the story continued through the years, as UVA evolved from a regional institution of limited renown to one of the great national and global universities of the 21st century. At the University of Virginia today, we continue to pursue the goal that has inspired our community since its inception — forging the leaders of tomorrow through the sharing of knowledge and the candid exchange of ideas.

As we tell the UVA story at this milestone moment in its history, we renew our dedication to Thomas Jefferson’s belief in the “illimitable freedom of the human mind.” For 200 years, this commitment has energized our University community, and it will continue to animate life at UVA for centuries to come.

Funding for bicentennial programming is made possible through generous support of the Alumni Board of Trustees.