



# **Sustainability Institute at Ohio State**

ANNUAL REPORT

# 2021

# MESSAGE FROM THE DIRECTORS



**Kate Bartter**  
Executive Director



**Elena Irwin (CFAES)**  
Faculty Director

Resilience gets our pick for best word to describe 2021. The Oxford Dictionary of English defines resilience as “being able to withstand or recover quickly from difficult conditions.” We purposefully included the concept of resilience in the definition of sustainability on which we based the creation of the Sustainability Institute. Our staff and colleagues met the challenge of a year of remote working from facilitating and leading research to providing unique sustainability experiences for students. Nothing about 2021 was ideal. But we persevered and in the process, learned many lessons and generated positive outcomes. Still, we acknowledge it was a difficult year. Operating during a pandemic continues to create barriers; we do our best to leap over or dart around them.

In 2021 SI moved out of its infancy stage and into early childhood. We are proud of the work accomplished by our team and many partners to advance the goals in our Strategic Plan. We developed a clear framework for supporting research, a “Research Continuum” that supports early ideation and brainstorming through targeted large proposal support. Our six Faculty Research Leaders provided leadership on awarding seed grant programs and spokesperson training for faculty and helped launch 14 Exploratory Research Groups.

SI continues to support and facilitate the work of fifteen dedicated faculty from seven colleges on the Sustainable Education and Learning Committee. In 2021, thanks to the Sustainability Curriculum Endowment provided by ENGIE-Axiom, SELC provided \$50,000 to support six new curriculum programs, ranging from a new water science major to the development of a new certificate program in the fundamentals of climate change.

Despite a year of working from our kitchens and living rooms, SI continued to prioritize outreach. Our faculty leaders learned the art of hosting webinars, and SI represented Ohio State in the launch of the Midwest Climate Summit which brought together more than 1,000 people to discuss the particular opportunities and challenges of climate change in the Midwest. We are super proud of the creativity of Ohio State students who earned more honors in the Climate Stories contest than any other university.

SI continued to partner with the Office of Administration and Planning on Ohio State’s journey to carbon neutrality. In 2021, SI worked with many university partners to upgrade Ohio State’s approach to sustainable building standards. For the first time, Ohio State will factor in sustainability to all of its building projects, not just those valued at more than \$4 million.

Finally, we are so proud of the collaborations developed with IGS Energy and Advanced Drainage Systems (ADS), our first external foundational members. Both ADS and IGS Energy are contributing more than \$1 million in cash and product donations to support research and are engaging with faculty and students in brand new collaborative ways.

2021. It was a tough year. But it was a good year for Sustainability at Ohio State.

# Building a more sustainable and resilient future for all

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## OUR MISSION

The Sustainability Institute integrates, supports and leads sustainability across the university enterprise in ways that:

**Promote** sustainability and resilience teaching and learning that are integrated across colleges and inclusive of various disciplines and ideas.

**Catalyze** interdisciplinary research that drives discovery and innovations in sustainable and resilient systems, technologies, policies and actions.

**Engage** public and private sector partners in Ohio, the nation and around the world to develop and apply sustainable solutions that improve well-being and equity.

**Integrate** sustainability scholarship with campus activities, including opportunities for students from diverse backgrounds and disciplines to engage in research and experiential learning using the campus as a living laboratory and test bed.

**Provide** a competitive advantage in attracting exceptional new talent, students, partnerships and resource investments to the university.

# BY THE NUMBERS

We're proud of our success since launching in January 2019. Here are selected Sustainability Institute accomplishments.

**1,494**

students participated in sustainability-related events



**29** core faculty with joint appointments between SI and academic units from six Ohio State colleges

**\$552,000**

secured from external funders to make our campus more sustainable

**5** new interdisciplinary sustainability curricular programs funded and under development

SI regularly communicates with **80+** student sustainability-focused organizations

**22** businesses engaged

**294** affiliated faculty and researchers from **11 Ohio State colleges**

**\$16.8 million**

secured for research that SI staff or faculty leaders had a role in securing

**6** interdisciplinary research teams seeded by SI with over **\$191k** in funding

SI regularly communicates with **640** Ohio State faculty and researchers working in sustainability

**6** Sustainable Design Categories incorporated into new university sustainable design and policy standards

**\$39,000** awarded to **11** student research or project proposals



**37** unique articles written about SI researchers and students

**22** campus units funded by the Ohio State Sustainability Fund



**13** external sustainability partnerships

hosted **15** events to increase sustainability awareness and engagement



**2,250**  
Twitter followers

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**The goal of  
sustainability:**  
to improve societal  
well-being while  
protecting Earth's  
life support systems

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# THE SUSTAINABILITY INSTITUTE AT OHIO STATE

The Ohio State University is committed to incorporating sustainability principles into all that we do: over 600 researchers from 12 colleges, thousands of passionate students, scores of curricular offerings and a land grant mission to engagement in Ohio and the world to improve social, economic and environmental conditions.

The focus on sustainability also extends to the business and support units, with institutional commitments to reduce energy, water and carbon emissions; serve more local and sustainable food on our campus; and enhance the ecosystem benefits of our landscapes.

These activities have been ongoing for many years and in some cases, for decades. Bringing greater coordination and integration of teaching, research operational excellence and sustainability outreach under one banner improves our ability to know the complete picture of Ohio State's sustainability impact.

The Sustainability Institute (SI) provides the organizational structure, platform and leadership to support the interdisciplinary collaboration and partnerships needed to address the complex challenges of sustainability.

Reporting to the Ohio State Office of Academic Affairs, SI began with a foundation of 31 sustainability core faculty hired through the University Discovery Themes Initiative and now includes almost 300 affiliated faculty members.

We are proud to present this accounting of the Sustainability Institute's FY2021 strategic goals and accomplishments.

# SI GOAL ONE



## Establish Ohio State as a leading public institution of sustainability research and applications

Six faculty research leaders coordinated opportunities for engaged faculty in three priority areas:

- **Healthy Air, Land and Water** – Linda Weavers (ENG) and Jay Martin (CFAES)
- **Sustainable Energy** – Jeff Bielicki (ENG and JGCPA) and David Cole (ASC)
- **Smart and Resilient Communities** – Gulsah Akar (ENG) and Stephen Quiring (ASC)

SI partnered with academic units across the university to catalyze and support research proposals that resulted in new awards related to circular economy, clean energy and other sustainability priorities. Examples include:

- **Engineering for the elimination of end-of-life plastics:** NSF Emerging Frontiers grant to develop methods and tools to assess, design and innovate toward a sustainable and circular economy. PI: Bhavik Bakshi (ENG), \$2 million
- **Conversion of CH<sub>4</sub> and CO<sub>2</sub> to liquid fuels:** NSF Emerging Frontiers grant to pursue a one-step conversion process to create liquid fuels from CH<sub>4</sub> and CO<sub>2</sub>. PI: Liang-Shih Fan (ENG), \$2 million
- **Upcycling of PVCs:** DOE Early Career Award to improve the environmental performance of PVCs using electrocatalysis. PI: Christo Sevov (SI, ASC), \$750K
- **Improving nutrient management:** Grant from The Nature Conservancy to accelerate adoption of best management practices through farmer-led education and outreach. PI: Robyn Wilson (CFAES), \$107K

SI also designed and led a new initiative to encourage Ohio State faculty to form Exploratory Research Groups with an aim toward supporting early-stage research and creative expression among researchers on a range of faculty-determined topics. More than a dozen groups were launched covering topics including emerging pollutants, resilient infrastructure, sustainable finance, and race and sustainability.



# SI GOAL TWO



## Educate and empower Ohio State students to become leaders, professionals and engaged citizens

### Enhance curricular programs in sustainability/resilience

#### Sustainability Education and Learning Committee

- Co-led by Mike Bisesi (CPH) and Elena Irwin (CFAES) and staffed by SI, SELC brings together faculty from seven colleges to expand and improve sustainability education at Ohio State.
- SELC offered funding to academic units working to revise or create new majors, minors or certificates in sustainability, including a new water science major, a sustainable engineering minor and the development of a certificate program in the fundamentals of climate change.

### Enhance co-curricular programs and opportunities

#### SUSTAINS Learning Community

- This year 39 students representing 22 majors were accepted to SUSTAINS.
- SUSTAINS is a residential learning community for students from any major who are passionate about sustainability.
- Despite the challenges presented by COVID restrictions, students were able to interact and enhance their university experience through hands-on learning, service and professional development.



SUSTAINS students harvest lettuce from the student farm.

#### SI Student Grant Funding

- Eleven Ohio State student sustainability-related research or campus as a living lab projects were funded by the Sustainability Institute as a part of the annual student grant program.
- \$38,890 was awarded in total.
- Examples of funded projects include:
  - Assets or eye sores? Understanding community perceptions of rain garden planning and design in Columbus
  - Intersecting technology and sustainability through student and community partnership toward food justice
  - Inclusive Accessibility: Integrating person-based qualitative and quantitative constraints into transportation planning

#### Women in Sustainability Annual Event

- SI hosted the third annual Women in Sustainability Event, a virtual discussion panel that featured a diverse group of sustainability leaders who shared their professional experiences and networked with participants.
- More than 80 students, staff, faculty and alumni attended virtually.
- Participants engaged in brainstorming sessions to identify the equity and justice challenges within the sustainability movement and how those challenges can be addressed. [A recording of the event](#) is available on the Ohio State Sustainability Institute's YouTube channel.

# SI GOAL THREE



## Accelerate campus sustainability progress and living lab opportunities

The Sustainability Institute partners with many units across the university to drive progress in reaching our operationally focused Resource Stewardship Sustainability Goals, while creating research and learning opportunities for faculty and students.

### New Sustainable Design and Construction Policy

To help propel achievement toward the university's sustainability goals, Ohio State adopted a new Sustainable Design and Construction policy. The policy establishes an Ohio State-centric set of sustainability standards for university construction projects that directly relate to the sustainability goals, such as energy efficiency, waste reduction and ecosystem service improvement. Further, the policy now requires all qualifying construction projects to adhere to the sustainability requirements, regardless of the project's budget level. Previously, only projects at or above the \$4 million threshold were subject to the university's pre-existing Green Build and Energy policy. Through the new policy, sustainability has been more widely and deeply ingrained into the university's construction efforts.

### Campus as a Living Laboratory

Stormwater management is a significant economic and environmental issue when designing new construction. The transformation of West Campus at Ohio State's Columbus campus is beginning to take shape around the Innovation Plaza. The nature of the site and spirit of the Innovation District is providing an opportunity to install an advanced, state-of-the-art stormwater management system to improve water quality and provide a new on-campus living laboratory to conduct ecosystem service research. Through a partnership with Advanced Drainage Systems, which donated a new StormTech stormwater management system for this effort, Ohio State faculty and staff will assess how the underground system and landscape management techniques can work together to provide enhanced stormwater management and cleaner water as it leaves the Innovation Plaza. This effort was enabled through a \$43,863 Ohio State Sustainability Fund grant for site engineering design and a generous donation from ADS.

### Zero Waste Partnership

In order to share expertise and resources to divert waste from Franklin County's Sanitary Landfill, Ohio State formally partnered with the Solid Waste Authority of Central Ohio (SWACO), which serves Franklin County and neighboring areas. Outlining six separate areas of collaboration, a Memorandum of Understanding between the two entities now positions Ohio State's Columbus campus as a living laboratory for new waste diversion pilot projects – from education to new recycling technologies. With knowledge gained from these pilot projects, SWACO aims to scale up the successful strategies across central Ohio.



## SI GOAL FOUR



### Grow the resources available to support sustainability and resilience research, teaching, engagement and outreach

Working with units from across campus, the Sustainability Institute led the development of two new collaborations with the private sector to advance sustainability research and create new opportunities for student engagement and campus sustainability.

- IGS Energy announced its intention to support research, student engagement and other university programs promoting sustainable energy. The initiative reflects the urgency of transitioning to low-carbon options for energy to reduce climate change, a priority for both Ohio State and IGS Energy. The company will invest \$1 million over five years in sustainable energy research and student learning at the university, with an aim of developing new innovations and emerging leaders to facilitate this transition.
- Advanced Drainage Systems (ADS) plans to support water management research, enhance student learning, and make campus more sustainable. The company is donating two state-of-the-art stormwater management systems for the Innovation District on West Campus along with a cash gift to install them. Additional funds will support research and teaching opportunities. In recognition of the high content of recycled material in ADS's products, part of the gift will also support an expansion of the university's recycling program. The combined value of ADS's support exceeds \$1 million.



Ohio State and ADS representatives celebrate a new collaboration to make campus more sustainable and create research opportunities for faculty and students.

## SI GOAL FIVE



### Catalyze a culture of sustainability by spreading an inclusive ethic of sustainability

Some of our most important work involves raising awareness and changing human behavior toward sustainability and resilience. SI staff work daily to raise Ohio State's visibility as a leader in sustainability scholarship and campus activities.

- In FY2021, SI partnered with more than 35 Ohio State units on programs, projects or events related to sustainability. For example, SI hosted 10 sustainability outreach efforts, including three educational seminars led by our faculty research leaders and an energy symposium that attracted over 400 registrants.
- SI posted 37 unique stories about sustainability research and engagement, nine of which focused on diversity, equity and inclusion.
- We had more than 19,000 visits to the SI website.



Ohio State President Kristina M. Johnson and Alan Gogbashian, Her Majesty's Consul General for Chicago, led a discussion about climate change solutions in the central Ohio community. SI organized a roundtable which included central Ohio business, local government and nonprofit leaders.

Sustainability Institute team members demonstrate Ohio State's sustainability leadership through membership in a number of local, regional and international consortia ranging from the Mid-Ohio Regional Planning Commission Sustainability Advisory Committee to the Midwest Climate Summit, the United Nations Sustainable Development Solutions Network and the University Climate Change Coalition.

SI continues to facilitate Ohio State's academic collaboration with ENGIE-Axiom, Ohio State's campus energy partner. In FY2021, 58 students received academic scholarships, and nine sustainability projects were funded with a total of \$320,000 in philanthropic contributions. SI also helped facilitate ENGIE engagement in external research proposals led by Ohio State faculty and helped bring ENGIE experts into many Ohio State classrooms as guest speakers and capstone advisors.

Through its facilitation of the President and Provost's Council on Sustainability, SI helps elevate overall awareness of significant sustainability successes and challenges to the leaders across Ohio State.

## SUSTAINABILITY CORE FACULTY

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One of the great pleasures of overseeing the Sustainability Institute at Ohio State is welcoming and mentoring talented and creative research faculty to Ohio State. Since the inception of the Sustainable and Resilient Economy Discovery Theme in 2014, 30 researchers representing six colleges — Arts and Sciences (ASC); Business (FCOB); Engineering (ENG); Food, Agricultural and Environmental Sciences (CFAES); Public Affairs (GLENN); and Public Health (CPH) — have been hired as SI Core Faculty, with areas of study and teaching running the breadth of sustainability and resilience education.

For more detailed information on SI Core Faculty or the 294 SI Affiliated Faculty and Researchers, visit the [SI directory](#).

### **Yongyang Cai (CFAES)**

Agricultural, Environmental and Development Economics  
Yongyang Cai's current research focuses on dynamic and stochastic integration of climate and economics.

### **Chen Chen (ENG)**

Integrated Systems Engineering  
Chen Chen's research focuses on the design and implementation of optimization methods for polynomial optimization and mixed-integer nonlinear programming problems.

### **Zhenhua Chen (ENG)**

City and Regional Planning  
Zhenhua Chen has a strong background in economic impact assessments of infrastructure investment, disasters and resilience using Computable General Equilibrium (CGE) models.

### **Jordan Clark (ENG, CFAES)**

Civil, Environmental and Geodetic Engineering  
Food, Agricultural and Biological Engineering  
Jordan Clark's research addresses the physical processes affecting energy consumption, thermal environments and air quality in sustainable buildings.

### **Santina Contreras (ENG)**

City and Regional Planning  
Santina Contreras explores how participatory processes unfold in complex settings, such as areas exposed to environmental hazards and in developing countries.

### **Karen Dannemiller (ENG, CPH)**

Civil, Environmental and Geodetic Engineering  
Environmental Health Sciences  
Karen Dannemiller's interdisciplinary research integrates engineering with microbiology and addresses emerging health challenges and environmental concerns using -omics approaches.

### **Scott Demyan (CFAES)**

Environment and Natural Resources  
Scott Demyan teaches and researches soil and environmental mineralogy with a focus on carbon permanence.

### **Grant Donnelly (FCOB)**

Marketing and Logistics  
Grant Donnelly's research focuses on harnessing consumers' cognitive and affective resources to increase their well-being. He explores how consumers strive to maximize their well-being in three central domains: financial, physical and prosocial.

## SUSTAINABILITY CORE FACULTY CONTINUED

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### Sean Downey (ASC)

Anthropology

Sean Downey is an ecological anthropologist whose research explores the social and environmental dynamics of farming and foraging societies, past and present.

### Jennifer Eaglin (ASC)

History

Jennifer Eaglin's area of expertise is in Latin American history, environment, health, technology and science. Her research focuses on the history of alternative energy in Brazil with a specific focus on ethanol development in the 20th century.

### Bart Elmore (ASC)

History

Bart Elmore's areas of expertise include global environmental history, the history of capitalism, United States history since 1877 and environment, science and technology.

### Jonathan Fresnedo (CFAES)

Horticulture and Crop Science

Jonathan Fresnedo studies the use and implementation of genomics for efficient germplasm improvement of outcrossing species and domestication of new crops. His research focuses on plant domestication and breeding, genetic improvement for biomaterials production, quantitative genomics of outcrossing crops, applied bioinformatics, plant genomics, germplasm improvement of outcrossing species and plant genetic resources.

### Daniel Gingerich (ENG)

Civil, Environmental and Geodetic Engineering  
Integrated Systems Engineering

Daniel Gingerich's research focuses on the health, environment and climate (HEC) implications of energy use for water and wastewater treatment and ways to reduce HEC damages using alternative energy inputs for treatment processes.

### Matthew Hamilton (CFAES)

Environment and Natural Resources

Matthew Hamilton's research improves the understanding of human-environment interactions in complex institutional settings, in which patterns of interactions among individual people, organizations and decision-making processes influence the performance of environmental institutions, which in turn shape environmental outcomes.

### John Horack (ENG, GLENN)

Mechanical and Aerospace Engineering  
Public Affairs

John Horack conducts research in areas of space policy, atmospheric physics and high-energy astrophysics. He provides significant consultation services to commercial space startup companies, civil space agencies and economic development interests tied to spaceflight.

### Natalie Hull (ENG)

Civil, Environmental and Geodetic Engineering

Natalie Hull leads the Water Treatment Engineering and Microbiome program in applying emerging molecular biology tools, novel sensors, big data analyses and optimized treatment technologies to sustainably understand and control microbiomes in natural and engineered waters to protect public and environmental health.

### Huyen (TK) Le (ASC)

Geography

Huyen Le's research intersects transportation, environment, health and well-being, focusing on managing and modeling urban transportation demand; impacts of information and communications technology, energy efficiency and other environmental outcomes; and physical and mental health outcomes resulting from daily travel and activities.

### Eden Lin (ASC)

Philosophy

Eden Lin's research is in ethics and well-being, the latter concerning what it takes for a life to go well or badly for the person who is living it, what determines how well or badly someone's life is going and what things are good or bad for people in the most fundamental way.

## SUSTAINABILITY CORE FACULTY CONTINUED

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### **Daniela Miteva (CFAES)**

Agricultural, Environmental and Development Economics

Daniela Miteva combines a microeconomic framework with theory and tools from ecology and biogeography to focus her research on understanding the drivers of landscape change, quantifying the impacts on ecosystems and human welfare and evaluating policies including protected areas and Forest Sustainability Council certification.

### **Joel Paulson (ENG)**

Chemical and Biomolecular Engineering

Joel Paulson's research focuses on improving the quality, efficiency and sustainability of engineered products and processes through the development of advanced decision-making strategies in the presence of uncertainty.

### **Judit Puskas (CFAES)**

Food, Agricultural and Biological Engineering

Judit Puskas specializes in green polymer chemistry, aiming to make rubber, plastics and similar materials using environmentally friendly practices; biomaterials; and polymer-based cancer diagnostic and therapeutic agents.

### **Yue Qin (ASC)**

Geography

Yue Qin's research focuses on air quality, carbon and water synergies and tradeoffs of energy transition pathways; the feedback of the natural environment on human society; and the food-energy-water nexus.

### **Chris Rea (GLENN)**

Public Affairs

Chris Rea studies the politics and economics of environmental governance and regulation, including markets, regulations, institutional emergence, organizational change, health policy, science and technology.

### **Christo Sevov (ASC)**

Chemistry and Biochemistry

Christo Sevov develops strategies at the interface of homogeneous catalysis and electrochemistry for the sustainable utilization of electricity that is generated from renewable sources.

### **Nicole Sintov (CFAES)**

Environment and Natural Resources

Nicole Sintov focuses on the psychological, social and contextual factors that influence individual-level behavior pertaining to environmental resource consumption.

### **Christine Thomas (ASC)**

Chemistry and Biochemistry

Thomas' research focus involves synthetic projects related to inorganic and organometallic chemistry and catalysis.

### **Xiaoguang (William) Wang (ENG)**

Chemical and Biomolecular Engineering

Xiaoguang Wang's research focuses on the design of novel dynamic materials and systems based on colloidal and interfacial phenomena.

### **Xiaoxue Wang (ENG)**

Chemical and Biomolecular Engineering

Xiaoxue Wang's research interests focus on the structure property engineering of polymers synthesized by Chemical Vapor Deposition (CVD) method, the electronic device fabrication based on CVD polymers and applying machine learning in materials development.

### **Mark Weir (CPH)**

Environmental Health Sciences

Mark Weir investigates how human health risks change based on environmental engineering interventions.

### **Ryan Winston (CFAES, ENG)**

Food, Agricultural and Biological Engineering  
Civil, Environmental and Geodetic Engineering

Ryan Winston's research is focused on runoff hydrology and water quality and performance of stormwater control measures, often with a focus in urban environments.

## FACULTY AWARDS AND RECOGNITIONS

SI core and affiliated faculty members were honored with the following prestigious awards in FY 2021.

**Suzanne Gray** (CFAES) – USDA 2020 Early Career Award for Excellence in Teaching

**Rattan Lal** (CFAES) – Arrell Global Food Innovation Award

**Ramteen Sioshansi** (ENG) – Fellow of the Institute of Electrical and Electronics Engineers

**Umit Ozkan** (ENG) – Ohio State Distinguished University Professor

**Judit Puskas** (CFAES) – Fellow of the National Academy of Inventors

**Matthew Sullivan** (ENG) – Clarivate 2020 Highly Cited Researchers List

**Aylin Yener** (ENG) – IEEE CTTC Technical Achievement Award

**Xiaoxue Wang** (ENG) – ORAU Ralph E. Powe Junior Faculty Enhancement Award



Elena Irwin, SI faculty director and Distinguished Professor of Food, Agricultural and Environmental Sciences in Economics and Sustainability, was appointed to the U.S. Environmental Protection Agency-chartered Scientific Advisory Board and Agricultural Sciences Committee. Irwin will work alongside 46 other highly regarded academic professionals to provide guidance and suggestions to agency policymakers.

## THE SI TEAM

**Kate Bartter**  
Executive Director

**Elena Irwin**  
Faculty Director

**Gwyn Dalton**  
Administrative Manager

**Matthew Griffin**  
Program Coordinator,  
Sustainability  
Education and Learning

**Atar Herziger**  
Postdoctoral Researcher,  
Behavior and Sustainability

**Kathy Jackson**  
Program Assistant

**Gina Jaquet**  
Director, Sustainability  
Education  
and Learning

**Josh Knights**  
Director of Partnerships

**Gina Langen**  
Director of  
Communications

**Maureen Langlois**  
Research Development  
Specialist

**Kim McIlwaine**  
Executive Assistant

**Alan Randall**  
Scholar in Residence

**Mike Shelton**  
Associate Director

**Joan Wall**  
Editor



**Sustainability Institute  
Faculty Advisory Board**

Bhavik Bakshi (ENG)  
 Mike Bisesi (CPH)  
 David Cole (ASC)  
 Katrina Cornish (CFAES)  
 Karen Dannemiller (ENG)  
 Darrick Hamilton (GLENN)  
 Harvey Miller (ASC)  
 Darla Munroe (ASC)  
 Alan Randall (CFAES)  
 Piers Turner (ASC)  
 Linda Weavers (ENG)  
 Robyn Wilson (CFAES)

**Sustainability Education  
and Learning Committee**

Michael Bisesi (CPH)  
 Academic Program Chair  
 Christian Blanco (FCOB)  
 Nicolas Breyfogle (ASC)  
 David Cole (ASC)  
 Maria Conroy (ENG)  
 Kip Curtis (ASC)  
 Noah Dormady (GLENN)  
 Gregory Hitzhusen (CFAES)  
 Elena Irwin (CFAES)  
 Gina Jaquet (SI)  
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 Allison MacKay (ENG)  
 Becky Mansfield (ASC)  
 Andrew Martin (ASC)  
 Rebekah Matheny (ASC)  
 Erin McKie (FCOB)  
 Agustin Munoz-Garcia (Mansfield)  
 Andrea Prud'homme (FCOB)  
 Jeff Sharp (CFAES)

**Sustainability Institute  
Internal Partners**

Athletics  
 Administration and Planning  
 Byrd Polar and Climate  
 Research Center  
 Business and Finance  
 Center for Applied Plant Sciences  
 CFAES Rattan Lal Center  
 for Carbon Management  
 and Sequestration  
 Center for Automotive Research  
 Center for Ethics and  
 Human Values  
 Center for Urban and  
 Regional Analysis  
 Coal Combustion  
 Products Program  
 Environmental Professionals  
 Network  
 Environmental and Social  
 Sustainability Lab  
 Global Arts and Humanities  
 Discovery Theme  
 Global Water Institute  
 Infectious Diseases Institute  
 Initiative for Food and  
 AgriCultural Transformation  
 Institute for Materials Research  
 Kirwan Institute for the Study  
 of Race and Ethnicity  
 Ohio Sea Grant and  
 Stone Laboratory  
 Ohio Water Resources Center  
 STEAM Factory  
 Student Life  
 Translational Data  
 Analytics Institute  
 Wilma H. Schiermeier Olentangy  
 River Wetland Research Park  
 Wexner Medical Center

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