



Sustainability Institute at Ohio State

ANNUAL REPORT

2020

MESSAGE FROM THE DIRECTORS



Kate Bartter
Executive Director



Elena Irwin (FAES)
Faculty Director

As we look back on the Sustainability Institute's first 18 months, we are both proud of all we have accomplished and humbled by a deeper understanding of the challenges and opportunities ahead. Thank you to everyone who has joined with us to better leverage and enhance Ohio State's sustainability related research, teaching, engagement, outreach and operations, from the more than 280 faculty and researchers who chose to affiliate with SI to the students and staff across the university enterprise with whom we strive to be good partners. As we all know, building a more sustainable future for all isn't just one wicked challenge, it is an intersecting network of challenges, tradeoffs and opportunities as we seek the proper balance of environmental protection, economic opportunity and social equity.

In many ways, the most important accomplishment of this first reporting period is one of the least visible: the importance of laying a strong foundation for future success. We have worked to better understand the amazing strengths of our faculty, the many ways our students access sustainability-related educational opportunities (and the gaps that remain), the operational challenges we face and the opportunities to strengthen partnerships internally and externally.

We are proud of concrete successes ranging from supporting a \$3 million NSF National Research Traineeship (NRT) grant that offers interdisciplinary graduate training in sustainable energy to releasing an updated plan to accelerate Ohio State's pathway to carbon neutrality. Our faculty research leaders have developed an ambitious set of integrated research plans; we look forward to seeing the results of seed funding awarded to support students and grow interdisciplinary research teams; and we leverage Ohio State's relationship with Ohio State Energy Partners (ENGIE-Axium), to enhance academic and operational success in sustainability.

Moving forward, SI will continue to look for ways to add value to the Ohio State community. We will continue to tell Ohio State's unique sustainability success stories and find new ways to grow opportunities for students, staff and faculty to use our amazing campus as a living lab for the sustainable innovation our world needs, now more than ever.

Building a more sustainable and resilient future for all

OUR MISSION

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

Promote sustainability and resilience teaching and learning 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.

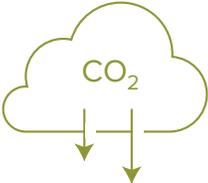
Engage public and private sector partners in Ohio, the nation and around the world to develop and apply sustainable solutions that improve well-being and equity.

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.

<p>SI affiliated faculty & researchers awarded \$45 million in research funding</p> 	<p>13 research teams supported by SI, with over \$400K in funding</p>	<p>30 Core Faculty from six Ohio State Colleges engaged with SI</p>
	<p>1,921 students participated in sustainability-related events</p>	<p>\$67,000 AWARDED TO 20 STUDENT RESEARCH OR PROJECT PROPOSALS</p>
<p>288 affiliated faculty and researchers from 8 OHIO STATE COLLEGES</p>		<p>153  SI worked to document 153 undergraduate sustainability majors, minors, certificates and specializations</p>
<p>SI REGULARLY COMMUNICATES WITH 80+ STUDENT SUSTAINABILITY-FOCUSED ORGANIZATIONS</p>	<p>68 UNIQUE articles written about SI researchers and students</p>	<p>22 campus units funded by the Ohio State Sustainability Fund</p>
 <p>2,091 TWITTER FOLLOWERS</p>	 <p>\$1.84 million awarded by Ohio State Sustainability Fund, to enhance 17 campus sustainability projects</p>	<p>5 EXTERNAL SUSTAINABILITY PARTNERSHIPS</p> <p>30 BUSINESSES ENGAGED</p>
<p>SI regularly communicates with 633 Ohio State faculty and researchers working in sustainability</p>		 <p>In FY19 and FY20, SI hosted 28 events to increase sustainability awareness and engagement</p>
 <p>55% UNIVERSITY carbon emissions addressed by 2030, under new Ohio State Climate Action Plan</p>	<p>\$3 million NSF grant awarded for EmPOWERment graduate training in sustainable energy systems</p>	<p>22 affiliated Ohio State research centers supported by SI</p>

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



BACKGROUND & PURPOSE

With the January 2019 launch of the Sustainability Institute, some asked: “Why SI?” And we were eager to answer.

Our comprehensive research university with hundreds of faculty in sustainability, thousands of passionate students, an enduring land-grant mission, and a strong commitment to sustainability in its campus operations merits coordination in sustainability efforts. SI provides the organizational structure and leadership to support the interdisciplinary collaboration and partnerships needed to address the complex challenges of sustainability.

Ohio State is committed to incorporating sustainable measures into all that we do.

The university leverages research discoveries, conducted by more than 600 sustainability researchers from eight colleges, to enable more sustainable and resilient communities. We teach more than 1,000 courses that support sustainability learning, and we engage communities in Ohio and around the world to improve social, economic and environmental conditions.

These activities have been ongoing for many years, and in some cases, for decades. Bringing the coordination of teaching, research and outreach

of sustainability under one banner improves our ability to know the complete picture of Ohio State’s sustainability impact.

This emphasis extends to the business and support units on campus also, with institutional commitments to reduce energy, water and carbon emissions; serve more local and sustainable food on our campus; and engage community partners at all levels.

The Sustainability Institute grew from a merger of the Office of Energy and Environment and the Sustainable and Resilient Economy Discovery Theme, reporting to the Ohio State Office of Academic Affairs. With a commitment from Executive Vice President and Provost Bruce McPheron, and the support of four deans, numerous department chairs and center directors, along with leaders from other university support units, the path for the establishment of SI was set.

SI started with a foundation of 30 sustainability core faculty hired through the University Discovery Themes Initiative and now includes more than 280 affiliated faculty members.

We are proud to present this accounting of the Sustainability Institute’s strategic goals and accomplishments from our first 18 months.

SI GOAL ONE



Sustainability Institute affiliated faculty provide interdisciplinary, innovative solutions to local, regional and global challenges related to our Strategic Research Areas:

- Circular Economy
- Healthy Air, Land and Water
- Smart and Resilient Communities
- Sustainable Energy
- Sustainable Resources

Six SI faculty research leaders from four colleges coordinate opportunities for engaged faculty in our **three priority research areas of Healthy Air, Land and Water, Smart and Resilient Communities, and Sustainable Energy.**

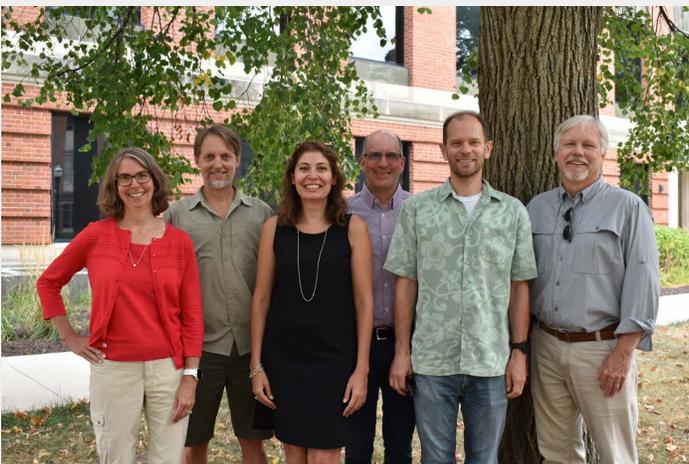
Twelve SI affiliated faculty make up the Sustainability Institute Faculty Advisory Board and guide SI leadership on goals, strategies and academic mission.

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

Active, notable SI interdisciplinary sustainability research awards include:

- **EmPOWERment** NSF Research Traineeship grant to develop and implement bold models for STEM graduate education training. PI: Ramteen Sioshansi (ENG), \$3 million
- **Inlet Protection Comparison** for sediment control on roadway construction. PI: Ryan Winston (FAES), \$436K
- **Microbial Indicators of Latent Dampness**, NSF Career Award for Karen Dannemiller (ENG), \$400K
- **Engineering Research Center for Sustainable Rubber Products**, PI: Judit Puskas (FAES), \$100K

And SI has been deeply engaged in implementing the \$2.4 million NSF Proposal “**Dynamic Regional Food, Energy, Water Systems**” modeling frame-work for studying deglobalization on sustainability.



SI Faculty Research Leaders for the 2020 academic year are, from left: Linda Weavers (ENG) and Jay Martin (FAES), Healthy Air, Land and Water; Gulsah Akar (ENG) and Harvey Miller (ASC), Smart and Resilient Communities; and Jeff Bielicki (ENG) and Dave Cole (ASC), Sustainable Energy.

SI GOAL TWO



Enhance curricular programs in sustainability/resilience

Sustainability Education and Learning Committee

Launched in 2018 and staffed by SI, SELC brings together faculty from seven colleges to expand and improve sustainability education at Ohio State. To date, SELC has focused on benchmarking and mapping the current landscape of all undergraduate sustainability programs and courses.

In FY2020, SELC administered a survey to faculty leadership in every academic unit requesting information on all undergraduate sustainability-related programs and courses using a SELC-developed six dimensions framework to categorize content being delivered to students: human and natural systems; earth and environmental systems and sustainability; economy, governance and sustainability; society, culture and sustainability; sustainable engineering, technology and design; and health, well-being and sustainability.

Survey results found that 151 undergraduate programs, 670 courses with sustainability content, and 76 majors, 64 minors and 11 certificates with sustainability related learning outcomes and content are offered at Ohio State.

Enhance co-curricular programs and opportunities

SUSTAINS Learning Community

Since 2014, Ohio State has offered SUSTAINS LC, a residential living learning experience for passionate students to experience sustainability firsthand. Today, SI manages SUSTAINS, where students from many disciplines interact and enhance their university experience through hands-on learning, service and professional development. In FY2020, 41 students from six colleges enrolled in SUSTAINS.

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

SI Student Grant Funding

To help students generate new knowledge and improve campus sustainability, this grant provided funding for campus as a living lab projects and research related to sustainability and is open to undergraduate, graduate and professional students.

Denman Undergraduate Research Forum

In 2019 and 2020, SI supported Excellence in Sustainability Research Awards. Ten students out of 80 research applicants were selected to submit interdisciplinary research for judging.

Education Abroad funding

SI provided funds for awards in two undergraduate sustainability education abroad programs, in collaboration with the Office of International Affairs.



Students in the SUSTAINS Learning Community engage in a variety of experiential learning opportunities, such as visiting the Stratford Ecological Center to learn more about sustainable maple syrup harvesting.



SI GOAL THREE



Accelerate campus sustainability progress and living lab opportunities

Since its inception, the Sustainability Institute has partnered with many units to drive progress in reaching our operationally focused Resource Stewardship Sustainability Goals, while creating research and learning opportunities for faculty and students.

Resource Stewardship Sustainability Goal successes include:

- **Ohio State Sustainability Fund** awards of \$1.84 million benefiting 17 projects in 22 university units to enhance and expand campus sustainability efforts
- Byrd Polar and Climate Research Center and the Department of Geography developing **heat island metrics, impacting our ecosystem services goals**

- An updated **University Climate Action Plan** that accelerates Ohio State's path to carbon neutrality by 2050, by charting a path to reduce 55% of FY2019 university emissions by 2030
- Multiple faculty involved in behavioral and interpersonal interaction studies to increase sustainability-related actions
- Production of the **Food Sustainability Panel Report**, establishing goal definitions and a pathway for Ohio State to reach its goal of purchasing or providing 40% local and sustainable food by 2025
- Approval of a **detailed ecosystem index** to increase the many benefits our landscapes provide
- Development of an updated **campus green build policy** for building construction going forward
- Planting more than **300 trees** on the new Cannon Preserve 18-acre greenspace

Campus as a Living Laboratory

For the 2019-2020 academic year, **Ohio State allowed 35 living laboratory projects** to generate new sustainability knowledge or improvements for the university. These projects engaged faculty, students and staff representing a number of disciplines. SI supplied funding to support undergrad, graduate and professional student research or campus as a laboratory projects.

SI GOAL FOUR



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



In 2019, Ohio State's energy management company, ENGIE-Axium, hosted the Smart Campus Challenge, a contest for student teams to design a campus sustainability project. "Wasted Opportunities" was the winning project, and team members Danny Freudiger, Mike Fackler and Timothy Kirby visited ENGIE's headquarters in France to present their winning concept to company executives.

SI is committed to being a good partner, internally and externally. Internal partnerships include collaborating with the School of Environment and Natural Resources, convening an "Environmental Chairs Caucus," organizing quarterly meetings for the Administration and Planning Senior Vice President, advancing progress toward meeting operational sustainability goals, and assisting the Byrd Polar and Climate Research Center in forming its first external advisory committee.

One of the more visible external partnerships SI helped facilitate is Ohio State's unique energy management contract with ENGIE/Axium. SI has advanced progress on all aspects of Ohio State's \$150 million academic collaboration with ENGIE-Axium and co-facilitated the Energy Academic Collaboration Council with the Office of Research. This process developed criteria to begin awarding \$25 million in scholarship funds, targeted disciplines for new faculty chairs, and successfully launched a competitive program to guide distribution of the \$810,000 in annual philanthropic contributions enabled by this partnership. SI Faculty Director Elena Irwin served on the committee planning the development of the new \$50 million Energy Advancement and innovation Center.

In addition, SI links external partners with academic and research projects of benefit to both. The **NSF Research Traineeship (NRT) "EmPOWERment" Program** award of nearly \$3 million to develop a graduate interdisciplinary specialization for students interested in sustainable energy is grounded in experiential learning opportunities with external partners, including ENGIE, American Electric Power, Siemens, the Public Utilities Commission of Ohio and others with insights into the future of energy markets.

In 2019, SI launched **SustainNews**, a quarterly newsletter designed to keep hundreds of external partners informed about Ohio State's sustainability-related research and learning as well as campus as a living lab and community outreach projects. And SI provided support for the Ohio State Environmental Professionals Network, whose monthly programs are outreach to hundreds of environmental professionals across central Ohio.

Sustainability Institute staff and faculty **provide impact to regional external partners** through their involvement on advisory boards including Sustainable Columbus, Mid-Ohio Regional Planning Commission, Solid Waste Authority of Central Ohio, Smart Columbus and the Great Lakes Protection Fund.



The Sustainability Institute helps students have hands-on learning experiences surrounding topics of food justice, environment, agriculture and sustainability.

SI GOAL FIVE



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

While the Sustainability Institute's efforts to advise, administer and direct sustainability efforts across our campuses cannot be overstated, perhaps 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.

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.

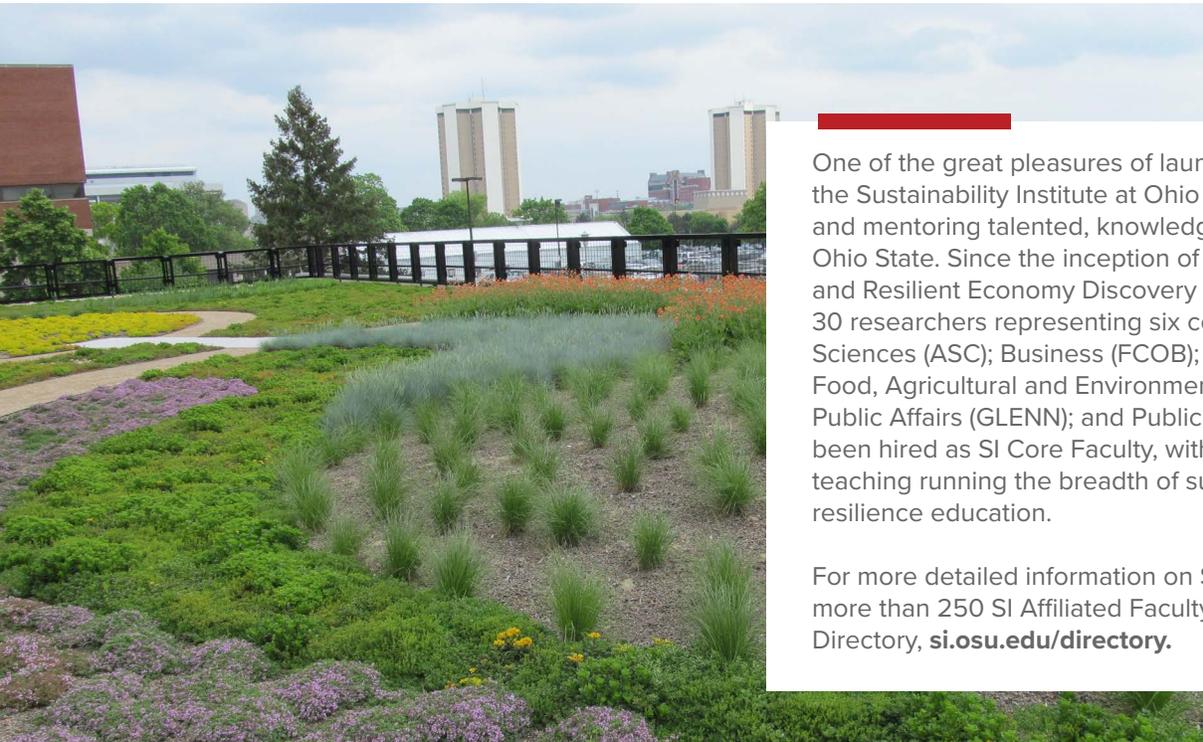
SI hosted 28 sustainability outreach efforts, including the annual Environmental Film Series and Women in Sustainability Breakfast. In 2020,

SI raised awareness of the history and rise of sustainability through programming for Ohio State's Sesquicentennial Celebration and the 50th Anniversary of Earth Day Celebration, and the COVID-19 pandemic provided the opportunity for SI core faculty member Mark Weir (CPH) and other faculty to educate broad public audiences through pandemic resilience seminars and programming.

SI posted 68 unique stories about research and engagement and hosted more than 14,000 visits to the SI website.

Through SI, Ohio State demonstrates sustainability leadership through membership in the 2020 Midwest Climate Summit, the United Nations Sustainable Development Solutions Network and the University Climate Change Coalition.

SUSTAINABILITY INSTITUTE CORE FACULTY



One of the great pleasures of launching and overseeing the Sustainability Institute at Ohio State is welcoming and mentoring talented, knowledgeable 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 (FAES); 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 more than 250 SI Affiliated Faculty members, visit the SI Directory, si.osu.edu/directory.

Yongyang Cai (FAES)

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, FAES)

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
Public Health

Karen Dannemiller's interdisciplinary research integrates engineering with microbiology and addresses emerging health challenges and environmental concerns using -omics approaches.

Scott Demyan (FAES)

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.

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 (FAES)

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 (FAES)

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 start-up 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.

Daniela Miteva (FAES)

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 (FAES)

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 (FAES)

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 (FAES, 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 & RECOGNITIONS

SI core and affiliated faculty members were honored with the following prestigious awards in 2019 and 2020.

Bhavik Bakshi (ENG)

2019 Lawrence K. Cecil Award in Environmental Chemical Engineering
2019 Sustainable Engineering Forum Education Award

Jill Clark (GLENN)

2020 Fulbright U.S. Scholar

Santina Contreras (ENG)

2020 NSF Enabling Next Generation of Hazards and Disasters Researchers Fellowship Program

Katrina Cornish (FAES)

2019 Lifetime Achievement Award, Bioenvironmental Polymer Society
2019 Ohio Faculty Council Technology Commercialization Award
2020 Fellow of the American Institute of Medical and Biological Engineers
2020 American Institute for Medical and Biological Engineering Fellow

Peter Craigmile (ASC)

2020 Institute of Mathematical Statistics (IMS) Fellow

Vicky Doan-Nguyen (ASC)

2019 Ovshinsky Sustainable Energy Fellowship Recipient

Jennifer Eaglin (ASC)

2019 Career Enhancement Fellowship for Junior Faculty, Woodrow Wilson National Fellowship Foundation

Bartow Elmore (ASC)

2020 J. Anthony Lukas Work-In-Progress Award

Dorota Grejner-Brzezinska (ENG)

2019 Ohio State Distinguished University Professor

Andrea Grottoli (ASC)

2020-2021 U.S. Fulbright Award

Darryl B. Hood (CPH)

Engaged Scholar Fellow, Ohio State African American and African Studies Community Extension Center

John Horack (ENG, GLENN)

2019 Alumni Award for Distinguished Teaching

Ian Howat (ASC)

2020 Ohio State Distinguished Scholar Award

Elena Irwin (FAES)

- 2019 Executive Board, Agriculture & Applied Economics Association
- 2019 Distinguished Professor of Food, Agricultural and Environmental Sciences

Rattan Lal (FAES)

- 2020 World Food Prize for increasing food production that conserves natural resources and mitigates climate change
- 2019 Japan Prize in science and technology
- 2019 Ohio State University Alumni Association Alumni Medalist Award

Clark Larsen (ASC)

- 2020 Membership to American Academy of Arts and Sciences
- 2020 Cozzarelli Prize

David Nagib (ASC)

- 2020 Eli Lilly Young Investigator Award

Chris Otter (ASC)

- 2020 Guggenheim Fellowship

Yue Qin (ASC)

- 2020 Yuxiang Early Career Award

T.V. "Babu" RajanBabu (ASC)

- 2020 Arthur Cope Scholar

Mary Rodriguez (FAES)

- 2020 North American Colleges of Teachers of Agriculture (NACTA) Educator Award

Ajay Shah (ENG)

- 2019 Young Engineer of the Year, NE Agricultural and Biological Engineering Conference (NABEC)

Ian Sheldon (FAES)

- 2019 Fellow, Agriculture and Applied Economics Association

Ramteen Sioshansi (ENG)

- 2020 Institute of Industrial & Systems Engineers (IISE) OR Division Annual Award for Excellence in the Teaching of Operations Research

Lonnie G. Thompson (ASC)

- 2020 American Academy of Arts and Sciences
- 2020 Columbus Foundation True Originals

Claudia Turro (ASC)

- 2020 Michigan State University Outstanding Alumni Award

David Williams (ENG)

- 2020 Royal Microscopical Society Honorary Fellowship

Renee Zhao (ENG)

- 2020 NSF CAREER Award

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



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Harvey Miller (ASC)
Darla Munroe (ASC)
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Piers Turner (ASC)
Linda Weavers (ENG)
Robyn Wilson (FAES)

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Andrea Prud'homme (FCOB)
Jeff Sharp (FAES)



Sustainability Institute Internal Partners

Athletics
Administration and Planning
Byrd Polar and Climate Research Center
Business and Finance
Center for Applied Plant Sciences
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
Schiermeier Olentangy River Wetland Research Park
Wexner Medical Center

The Sustainability Institute at Ohio State

174 W. 18th Avenue, Suite 3018
Columbus, OH 43210

si.osu.edu
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