

polycentriccircles

Greetings

My name is Scott Shackelford, and I have the honor to be the Acting Director of the Ostrom Workshop. I thought it useful to take a moment and properly introduce myself and my interest in the Ostroms' work. Many of you might know me as a scholar focused on issues of cybersecurity and Internet governance such as safeguarding personal data from misuse and abuse or making democracy harder to hack, but I have actually spent the majority of my academic career focusing on sustainable development. After graduating from IU (with a senior thesis in economics and political science on space policy), I earned a JD from Stanford University and a PhD in Politics and International Studies from the University of Cambridge. My doctoral dissertation took a multidisciplinary approach on managing collective action problems in global commons governance ranging from climate change and orbital debris mitigation to deep seabed mining and cybersecurity. It is that research that brought me to the Ostroms and their numerous esteemed collaborators. In fact, one of the first things I did when I joined the faculty at IUB was to seek out Lin, whom was kind enough to critique several chapters of my doctoral dissertation even though she had a thousand other (likely much more worthwhile) things to do. In fact, I remember that she answered my email on the same day it was sent. That was just the kind of person, and mentor, she was. And it's an example that I've tried to live by. It was one of the greatest honors of my life when I won the 2015 Elinor Ostrom Award, created by the IASC in her honor.

We now find ourselves at a new chapter, and up front I want you to know that I'm committed to doing everything I can to ensure that it's a positive one. In particular, I want the

Workshop to be a welcoming place for everyone--faculty, staff, and students alike--and one that Lin and Vincent would recognize, and celebrate. To that end, I will be holding a series of meetings, with any and all interested affiliates, to discuss the past, present, and future of the Workshop. But you need not wait - please don't hesitate to reach out with any ideas on what more the Workshop can do to support you and your work, and how together we can further enliven and enrich this storied institution to make it a truly world-class center for innovative and policy relevant work.

I also want to clarify that while a core focus of the Workshop remains governance as it always has, as many of you know the Ostroms were also interested in other numerous other related areas and issues. Amazing work stemmed from their insights tackling thorny challenges and the conventional wisdom, including an array of frameworks (IAD, SES, GKC, etc.) and approaches (Bloomington School) that should and will be important common themes. That is why we're launching the Polycentricity Working Group in September, which is just the first step among many to welcome back old friends and hopefully make many new ones. Just as the Ostroms were never afraid to experiment with new research methodologies, know that the Workshop is open to all comers who may be approaching these topics from a rich array of perspectives and backgrounds. That, I feel at least, has always been the magic of this place, a melting pot that has resulted in some of the most innovative work ever done in social science.

In short order we will be launching a series of new partnerships and Working Groups ranging from Democratic Sustainability to Space Governance. But this is not a top-down process. We encourage any interested Workshop affiliate to create a Working Group to fit their interests and those of the community. Depending on the type of support desired, we can offer everything from a meeting space to limited seed funds to help get new collaborations off the ground. We will continue to use Zoom technology to permit external affiliates to participate in our discussions and stream content after the fact at our new YouTube channel, and will be holding a series of commemorative events and book conferences celebrating the Ostroms and their continued relevance.

As Lin famously said, "Trust is the most most important resource." I hope to earn your trust by doing everything I can to ensure that this new chapter of our Workshop is one in which we can all be proud to play a part.

Best, Scott

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STAY CONNECTED

Polycentric Circles is a biannual (Winter & Fall) publication of the Ostrom Workshop. Join the mailing list at: <https://ostromworkshop.indiana.edu/mailling-list/>. Submissions are always welcome and may be sent to the editor.

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Angie Raymond	Director, Program on Data Management and Information Governance
Dean Lueck	Director, Program on Natural Resource Governance
Gustavo Torrens	Interim Director, Program on Political, Economic, and Legal Institutions and Organizations (PELIO)
Vincent & Elinor Ostrom	Founding Directors
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MISSION: To build upon the theme of governance to understand and address major societal problems



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The Ostrom Workshop is a research center of the Office of the Vice Provost for Research at IU Bloomington

WOW6 Summary

From June 19th through the 21st, the Ostrom Workshop once again hosted the world for the Sixth Workshop on the Ostrom Workshop, or WOW6. WOWs occur every five years – the first one was held in 1994, and the next one (WOW7) will be in 2024.

WOW6 drew more than 200 participants, who came from every continent not named Anarctica. Research presentations and roundtable discussions were held on 51 panels during the three days.

These gatherings are always a celebratory combination of scholarly conference and family reunion. WOW6 was no exception. Many participants were visiting Bloomington and IU for the first time, while others were alumni of various sorts – former students, faculty, and visiting scholars of the Ostrom Workshop.

Indiana University President Michael McRobbie offered greeting of welcome – and welcome back – at the morning plenary session on the 19th. President McRobbie reflected on the importance of the Ostroms and the Ostrom Workshop to IU's accomplishments in research and international engagement, highlighting the fact that WOW6 was an official IU Bicentennial Event, coinciding with the beginning of the 200th year of Indiana University in Bloomington. (We gratefully add that the university provided financial support to WOW6 as a Bicentennial Event.)

Also at the morning plenary, Ostrom Workshop Director Lee Alston welcomed the attendees and provided an overview of the Workshop's current research programs and direction. He introduced the directors of three of the Ostrom Workshop's current research programs – Dean Lueck (natural resource governance), Angie Raymond (data management and information governance), and Scott Shackelford (cybersecurity and internet governance).

At a closing plenary on the afternoon of the 21st, Professor Thrainn Eggertsson presented a keynote address, "Governance in the 21st Century." Professor Eggertsson, who also attended panels throughout WOW6, is a longtime colleague and research collaborator of Professor Alston and was a colleague of the Ostroms as well.

Between these opening and closing sessions, the panels and papers presented over the three days demonstrated remarkable breadth and the vitality of work being done on institutions and social behavior. Many academic disciplines were represented, and the topics covered ranged from blockchain to the Great American Songbook.

Participants did enjoy some time away from panels and plenaries. A reception – held this year at the Indiana University Musical Arts Center – and a group photograph. A dinner held after the closing plenary – in the Tudor Room of the Indiana Memorial Union – featured toasts and tributes to two pillars of the Ostrom Workshop who retired at the end of June, Patty Lezotte and Mike McGinnis.

Thanks to everyone who participated in WOW6 and who helped make it happen. See you at WOW7!

UPCOMING EVENTS

PAST EVENTS

* Archived streams available via our website

▼ Colloquium, Research, and Tocqueville Lecture Series

View the [Fall 2019 schedule](#) and/or [join the mailing list](#).

▼ Ethics in the Information Age event series

View the [Fall 2019 schedule](#)

▼ October 7, 2019

10th Anniversary Celebration of Elinor Ostrom's Nobel prize in Economic Sciences

Open House at the Ostrom Workshop from 2:00 - 4:00, followed by a celebration of Lin at the University Club, Indiana Memorial Union from 4:30 - 6:00.

▼ OCTOBER 9, 2019

Ostrom Memorial Lecture

The 6th annual lecture will be presented by David ("Doc") Searls, <http://www.searls.com/>



▼ November 14 - 15, 2019

Symposium on Natural Resource Governance for Young Scholars

Conference by invitation only.

▼ January 30, 2020, Whittenberger Auditorium

Inaugural Ostrom Lecture on Cybersecurity and Internet Governance

The lecture will be presented by Bruce Schneier, an internationally renowned security technologist, called a "security guru" by *The Economist*.



For more information about our upcoming events, please visit our website - ostromworkshop@indiana.edu

Colloquium, Research, and Tocqueville Lecture Series *

Twenty-three presentations took place in Spring 2019.

Program on Cybersecurity and Internet Governance

- Cookies and Hard Problems Reading Group: J. J. Thompson, Rook Security, "Cybersecurity, Corporate Governance, and the Realities of Being a CISO," Jan. 31
- Ethics in the Information Age event series: Don Howard, University of Notre Dame, "Big Data, AI, and Civic Virtue," Feb. 28
- Ethics in the Information Age event series: Fred Cate, Nick Merker, Zach Heck, and Scott Shackelford, "The Future of Privacy in the Digital Age," Apr. 17
- "Making Democracy Harder to Hack 2.0," a Collaborative Research Workshop between IU and Australian National University, Canberra, Australia, May 7-9

Program on Data Management and Information Governance

- Ethics in the Information Age event series: Virginia Eubanks, Jessica Eaglin, and Angie Raymond, "Technology Enhanced Discrimination," Feb. 11
- Conference on "Consumer Financial Data: Regulatory Issues, Challenges, and Solutions," Washington, DC, Apr. 4 (cosponsored with Program on Cybersecurity and Internet Governance)

Program on Natural Resource Governance

- Natural Resource Governance Speaker Series: Lynne Kiesling, Purdue University, "From Airbnb to Solar: Toward a Transaction Cost Model of a Retail Electricity Distribution Platform," Apr. 3
- Environmental Policy Seminar Speaker Series: Tanya Heikkila, University of Colorado, "Understanding and Analyzing Policy Conflict: Lessons from Energy Debates in the U.S.," Apr. 12
- Symposium on "Mismatched Property Regimes to Landscape-Level Resources: Legal and Customary Solutions," NYU School of Law (cosponsored with NYU's Classical Liberal Institute), Apr. 12-13
- 3rd Annual Ostrom Lecture on Environmental Policy: Barry Rabe, University of Michigan, Apr. 17 *

Program on Political, Economic, and Legal Institutions and Organizations (PELIO)

- Political Institutions and Economic Policy (PIEP) Conference, organized by Lee Alston and Cyanne E. Loyle, Apr. 27
- Rebel Governance Workshop: "Rebel Governance and Legitimacy," organized by Cyanne E. Loyle, May 23

Workshop on the Ostrom Workshop (WOW6) conference

"Governance: Past, Present, and Future," IU Bloomington, June 19-21, <https://wow.indiana.edu/>

Sustainable Food Systems Science Group Goes to Zambia

BY STACEY GIROUX

Cities in sub-Saharan Africa are urbanizing rapidly, placing great strain on urban systems, particularly urban food systems. Such strain increases the need for good governance arrangements and policymaking on the parts of those designing and managing such growth, especially as it relates to food security. The latest FAO report on global food security and nutrition finds that the number of people facing food insecurity continues to rise in sub-Saharan Africa. However, food systems planning is often not a priority as a result of other acute issues like infrastructure, housing, and health challenges. In June, Jordan Blekking (Research Awardee, Geography), Stacey Giroux (Research Scientist in the Workshop; Anthropology), and Kurt Waldman (Workshop affiliated faculty; Geography) traveled to Zambia to conduct fieldwork that

addressed multiple aspects of urban food systems. The project examined facets of urbanization, food access and provisioning, and food insecurity. This work serves as a first step in a larger project that will work toward identifying vulnerabilities and points of resilience in an urban food system, and results will be presented at both discipline- and topic-focused conferences in the coming year.

All three researchers are part of the Sustainable Food Systems Science group housed at the Workshop. You can find us at <https://sfss.indiana.edu/>, or contact Stacey Giroux directly at sagiroux@indiana.edu if you'd like to know more or help fund the Sustainable Food Systems Science group's ongoing work.

Governing Irrigation Waters in València Spain

BY ERIC NORDMAN - OSTROM WORKSHOP VISITING SCHOLAR

The fertile plain surrounding València, Spain has produced more than just vegetables. The horta de València, as it's known in Valencian (la huerta in Castilian Spanish), has nurtured a community of irrigators that has endured for over 1,000 years. The farmers of València created a system for governing the allocation of irrigation water and resolving conflicts called el Tribunal de les Aigües (Tribunal de las Aguas in Castilian). Established by Arab and Berber farmers sometime before 960, the Tribunal endured the transition to Christian rule in the Middle Ages, the Franco regime in the 20th century, and innumerable floods and droughts in between.

In 2010, the Tribunal and the Universitat Politècnica de València, particularly Dr. Guillermo Palau along with Glick, wished to honor Ostrom's work on common pool resources by presenting her with a

medal commemorating the Tribunal's millennial. "What made Lin's influence on me so special," Glick reflected, "is that there appeared to be a perfect fit between her construction of the way irrigation systems worked [in theory] and the way they actually worked in València."

Lin was scheduled to travel to València and accept the award in 2012. Sadly, Lin passed away just three months before the scheduled trip. The medal sat in the Tribunal's office for the next seven years.

I was able to bring the medal to WOW6 where it was displayed near Ostrom's Nobel Prize medal. The Tribunal's medal and the book on the Tribunal's history will be housed at Indiana University's Lilly Library. (See image next page.)

Rebel Governance

BY CYANNE LOYLE

Governance is not merely the purview of states. Non-state actors including non-governmental organizations, civic associations, and neighborhood groups can collectively gather to determine the rules which will oversee their interactions. Through the PELIO program's working group on non-state actor governance, scholars have been examining the different actors and organizations which govern, the competition of governance across spaces, and the impact of different governance strategies on the governed.

Armed rebel groups are one type of actor often understudied in the field of governance. Like their state counterparts, rebel groups engage in a variety of governance behavior such as the provision of social services, including health services and security, tax collection, and the holding of elections, to name just a few. Prominent examples of rebel governance include the Taliban and Boko Haram which both created their own school systems and curriculum to disseminate their rebel philosophies. The Maoists in Nepal created a parallel judicial structure which operated People's Courts alongside the Nepalese judiciary. Research into rebel governance offers important lessons for the study of governance more broadly. In particular, lessons about the necessary and sufficient conditions for rebel governance can inform what we know about when and how other actors can effectively and efficiently govern.

Taking advantage of the expertise at the Ostrom Workshop, in May the PELIO program hosted an article writing workshop on "Rebel Governance and Legitimacy" to link the existing work on rebel governance with the cutting edge work on governance taking place at the Workshop. Participants included Jessica Braithwaite (University of Arizona), Kathleen Cunningham (University of Maryland), Reyko Huang (Texas A&M), R. Joseph Huddleston (Seaton Hall University), Danielle Jung (Emory University), Michael Rubin (University of California, San Diego), Megan Stewart (American University) and interim PELIO director, Cyanne E. Loyle.

Over the course of two days, participants outlined and wrote a draft of a new conceptual article on rebel governance engaging with the broader literature on governance and work from the Bloomington School. This article will be presented at the Ostrom Workshop Colloquium on October 14th and the group looks forward to the continued collaboration with the Ostrom Workshop.

Image: Close-up of the Tribunal's medal



PEOPLE

INCOMING VISITING SCHOLARS

*Nominations are accepted yearly on **March 1**.*



Greg Bloom
Founder Open Referral
October 2019



Tabrez Ebrahim
California Western
November 2019 & April 2020



Mark Kanazawa
Carleton College
September/October 2019



Stefan Kolev
University of Applied Sciences
Zwickau, Germany
September - November 2019



Jieling Liu
University of Lisbon
August 2019 - May 2020



Erik Nordman
Grand Valley State University
September 2019 - April 2020



Ruta Śpiewak
Polish Academy of Science
September 2019 - April 2020



David Stadelmann
University of Bayreuth
September 2019

POSTDOCTORAL RESEARCH FELLOWS



Angela Babb



Julia Valliant

PEOPLE *(continued)*

OSTROM FELLOWS

Each year, the Workshop funds a maximum of six MA and PhD candidates from the College of Arts & Sciences, School of Public Health, SPEA, and other departmental units



Aidan Klein
Political Science



Ian Zhengyan Li
School of Public and
Environmental Affairs



Paulo Massoca
School of Public and
Environmental Affairs



Jorge Rios Allier
Anthropology



Tessa Steiniche
Anthropology



Zheng Zhou
School of Public Health

RESEARCH AWARDEES

*Student award applications are accepted yearly; deadline **February 7**.*

Faculty



Ore Koren
Political Science

Graduate Students



Kristina Anderson
School of Public
Health



Jordan Blekking
Geography



Anthony DeMattee
Political Science and
School of Public and
Environmental Affairs



Ian Zhengyan Li
School of Public and
Environmental Affairs



Salih Yasun
Political Science

▶ Effective August 8, 2019, **Lee Alston** has stepped down as Director of the Workshop. On August 1, 2019, **Scott Shackelford** was named Acting Director.

▶ **Lee Alston** has been awarded a Becker Friedman Institute Fellowship at the University of Chicago for academic year 2019–20.

▶ **Shahzeen Attari, Dan Cole, Burney Fischer, Elinor Ostrom, et al.**, are featured in a video on “Indiana Matters: Environmental Change,” April 24, 2019. The in-depth discussion includes experts from across the state on the effects of environmental change already taking place and what could possibly happen in the future (<https://wtiu.org/indianamatters/indiana-matters-environmental-change.php>).

▶ Workshop Affiliate **Claudia Avellaneda** was recognized in April 2019 for one of the Best Papers published in *PMR* in 2018, “Municipal Isomorphism: Testing the Effects of Vertical and Horizontal Collaboration,” *Public Management Review* 20(4): 445–68 (coauthored with Gabriel Piña).

Claudia also received the IU Distinguished Latino Faculty Award in April 2019, and was selected as the 2019–2010 president of the Midwest Public Administration Caucus.

▶ **Ricardo Bello-Gomez** (Ostrom Fellow), **Johabed Olvera** (Ostrom Research Awardee), and **Claudia Avellaneda** (SPEA; Ostrom Research Awardee) are winners of the Garcia-Zamor Best Paper Award, ASPA Section on International and Comparative Administration (SICA), March 2019.

▶ **Eduardo Brondizio** (Anthropology; Workshop Affiliate) testified before Congress on environmental issues on May 22, 2019. Eduardo is affiliated with the Environmental Resilience Institute, founded as part of IU’s Prepared for Environmental Change Grand Challenge initiative. He is co-chair of the Global Assessment Report on Biodiversity and Ecosystem Services, an international report on biodiversity that has found that 1 million plant and animal species are at risk of extinction, among other key findings (<https://news.iu.edu/stories/2019/05/iu/releases/20-congressional-testimony-environmental-issues.html>).

▶ **Dan Cole** was honored with an Outstanding Undergraduate Teaching Award from IU’s O’Neill School of Public and Environmental Affairs on April 24, 2019.

▶ Workshop Affiliates **Sarah Bauerle Danzman** and **William Winecoff** were awarded IU’s Social Sciences Research Funding in Spring 2019 for their project: Market Concentration, Transnational Corporate Networks, and Politically Connected Firms.

▶ **Elements of Artificial Intelligence free online course:** The Swedish and Finnish governments have developed a free course on AI, currently available in English and Finnish (<https://www.elementsofai.com/>).

▶ “**Elinor Ostrom: A Biography of Interdisciplinary Life**” is the title of an IU dissertation written by Sara Catherine Clark in April 2019 (<http://hdl.handle.net/10535/10428>).

▶ Workshop Affiliate **Lauren M. MacLean** became the chair of IU’s Political Science Department effective July 1, 2019.

▶ **New video series: Women in Economics.** Episode 1 features **Elinor Ostrom**, presented by Tyler Cowen, Marginal Revolution University (MRU), February 2019, https://learn.mruuniversity.com/women-economics-series-elinor-ostrom/?utm_source=drip&utm_medium=email&utm_campaign=Women+in+Economics%3A+Elinor+Ostrom+%28New+Video%29&utm_content=Women+in+Economics%3A+Elinor+Ostrom+%28New+Video%29.

▶ **Erik Nordman** (Grand Valley State University; Visiting Scholar 2019–20) will be spending his sabbatical at the Workshop in order to co-write a book about the enduring legacy of Elinor Ostrom.

▶ **Angie Raymond** (Data Management and Information Governance Program Director) spoke at the Government-University-Industry Research Roundtable (GUIRR) of the National Academies of Sciences, Engineering, and Medicine, February 2019 meeting, which focused on Authenticity, Integrity, and Security in a Digital World (more info at <https://ostromworkshop.indiana.edu/pdf/data-integrity-news.pdf>).

Angie is featured in a recent publication by the National Academies of Sciences, Engineering, and Medicine, *Authenticity, Integrity, and Security in a Digital World: Proceedings of a Workshop—in Brief* (Washington, DC: The National Academies Press, 2019, <https://doi.org/10.17226/25477>).

▶ **Scott Shackelford** (Cybersecurity and Internet Governance Program Director) was a panelist at the UVA Law International Law Symposium on “The Corporate Dilemma: Balancing Social Responsibility and Profitability across Borders,” University of Virginia School of Law, February 19, 2019.

▶ **Samantha von Ende** (Ostrom Fellow, 2018–19) has received a John H. Edwards Fellowship, one of IU’s most prestigious academic awards.

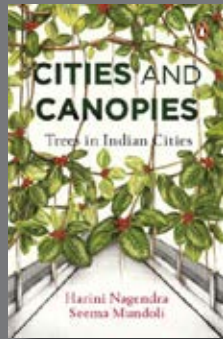
▶ **Mike McGinnis** (Associate Dean for Social and Historical Sciences and Graduate Education; Professor Political Science; Workshop Affiliate) retired from IU on July 1, 2019. A former Workshop co-director and director, Mike spent his entire academic career at IU, coming to Bloomington in 1985.

▶ **Patty Lezotte**, long time Workshop staff member, retired on July 1, 2019, from IU after 43 years of service. We wish Patty all the best for this new chapter of her life.

PUBLICATIONS

► **Cities and Canopies: Trees in Indian Cities**

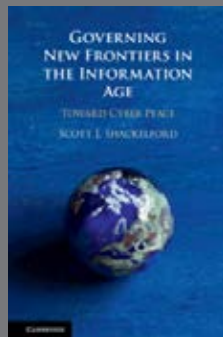
Harini Nagendra and Seema Mundoli
(Penguin India, 2019)



Native and imported, sacred and ordinary, culinary and floral, favourites of various kings and commoners over the centuries, trees are the most visible signs of nature in cities, fundamentally shaping their identities. Trees are storehouses of the complex origins and histories of city growth, coming as they do from different parts of the world, brought in by various local and colonial rulers. Drawing on extensive research, *Cities and Canopies* is a book about both the specific and the general aspects of these gentle life-giving creatures.

► **Governing New Frontiers in the Information Age: Toward Cyber Peace**

Scott Shackelford
(Cambridge University Press, forthcoming 2020)



Many pressing environmental and security threats now facing the international community may be traced to the frontiers. From climate change and cyber-attacks to the associated challenges of space weaponization and orbital debris mitigation, solutions to all of these issues have at their root some form of regulation over the “global commons.” Yet governance over these spaces is now transitioning away from multilateral treaties to regional and bilateral accords. This book makes an original contribution by comparing and contrasting some of the principal issues facing the frontiers.

► **Governing Complexity: Analyzing and Applying Polycentricity**

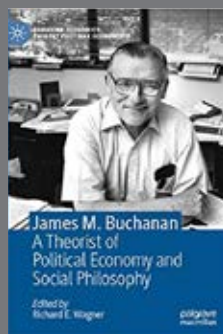
Andreas Thiel, William Blomquist, and Dustin Garrick, eds.
(Cambridge University Press, forthcoming 2019)



Governing Complexity provides an updated explanation of the concept of polycentric governance. The editors provide examples of it in contemporary settings involving complex natural resource systems, as well as a critical evaluation of the utility of the concept. With contributions from leading scholars in the field, this book makes the case that polycentric governance arrangements exist and it is possible for polycentric arrangements to perform well, persist for long periods, and adapt.

► **James M. Buchanan: A Theorist of Political Economy and Social Philosophy**

Richard E. Wagner, ed.
(Palgrave Macmillan, 2018)



This book explores the academic contribution of James Buchanan, who received the Nobel Prize for economics in 1986. It includes essays distributed across the extensive domain of Buchanan’s scholarly contributions, reflecting the range of his scholarly interests. Chapters will examine Buchanan’s scholarly work on public finance, social insurance, public debt, public choice, economic methodology, constitutional political economy, law and economics, and ethics and social theory.

Contributors include: Paul Dragos Aligica, Robert Bish, Peter Boettke, Roberta Herzberg, among many others.

ARTICLES & PAPERS

Alston, Eric, Lee J. Alston, and Bernardo Mueller. 2019. "The Logic of Leadership and Organizational Hierarchies." Paper presented at the Public Choice Society Annual Meetings, March 14–16; Workshop Colloquium Series, April 8; Conference on Long-Run Development in Latin America and Beyond, Bogota, Colombia, May 30–31; SIOE annual conference, Stockholm, Sweden, June 27–29.

Babb, Angela M., Julie K. Wasserman, Daniel C. Knudsen, and Steven T. Lalevich. 2019. "An Examination of Medically Necessary Diets within the Framework of the Thrifty Food Plan." *Ecology of Food and Nutrition*.

Bernstein, Michael, et al. 2019. "Mapping Ostrom's Common-Pool Resource Systems Coding Handbook to the Coupled Infrastructure Systems Framework to Enable Comparative Research." *International Journal of the Commons* 13(1): 527–51.

Blanco, Esther, E. Glenn Dutcher, and Tobias Haller. 2019. "Social Dilemmas with Public and Private Insurance against Losses." *Journal of Economic Behavior & Organization*, Feb. 23.

Walker, James M., and Esther Blanco. 2019. "Common-Pool Resource Appropriation and Conservation: Lessons from Experimental Economics." In *Routledge Handbook of the Study of the Commons*, eds. Blake Hudson, Jonathan Rosenbloom, and Daniel Cole. Routledge.

Bruce, A. 2019. "Farm Entry and Persistence: Three Pathways into Alternative Agriculture in Southern Ohio." *Journal of Rural Studies* 69: 30–40.

Damon, Maria, Daniel Cole, Elinor Ostrom, and Thomas Sterner. 2019. "Grandfathering: Environmental Uses and Impacts." *Review of Environmental Economics and Policy*, 1–20.

Drescher, Michael, Graham Epstein, G. Keith Warriner, and Rebecca Rooney. 2019. "An Investigation of the Effects of Conservation Incentive Programs on Management of Invasive Species by Private Landowners." *Conservation Science and Practice*.

Duhnea, Emil, and Adam G. Martin. 2019. "Buchanan and Bloomington." Working Paper, https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3326168.

Farmer, James, Angela Babb, Sara Minard, and Marcia Veldman. 2019. "Accessing Local Foods: Households Using SNAP Double Bucks and Financial Incentives at a Mid-western Farmers Market." *Journal of Agriculture, Food Systems, and Community Development* 8(4): 1–26.

Giroux, Stacey, Inna Kouper, Lyndon Estes, Jacob Schumacher, Kurt Waldman, et al. 2019. "A High-Frequency Mobile Phone Data Collection Approach for Research in Social-Environmental Systems: Applications in Climate Variability and Food Security in Sub-Saharan Africa." *Environmental Modelling & Software* 119: 57–69.

Haythorn, C., D. Knudsen, J. Farmer, C. Antreasian, and M. Betz. 2019. "It's All in the SKU: Getting Food from Somewhere from the Field to the Dinner Plate while Using a Large-Scale Retailer." *Sustainability* 11(3): 892.

Kurian, M., C. Scott, V. R. Reddy, G. Alabaster, A. Nardocci, K. Portney, R. Boer, and B. Hannibal. 2019. "One Swallow Does Not Make a Summer: Siloes, Trade-Offs and Synergies in the Water-Energy-Food Nexus." *Frontiers in Environmental Science* 7 (March).

Sarker, Ashutosh, and William Blomquist. 2019. "Addressing Misperceptions of *Governing the Commons*." *Journal of Institutional Economics* 15(2): 281–301.

Suárez-Eiroa, Brais, Emilio Fernández, Gonzalo Méndez-Martínez, and David Soto-Oñate. 2019. "Operational Principles of Circular Economy for Sustainable Development: Linking Theory and Practice." *Journal of Cleaner Production* 214: 952–61.

Waldman, K. B., N. Vergopolan, L. D. Estes, S. Z. Attari, J. Sheffield, K. K. Caylor, and T. P. Evans. 2019. "Cognitive Biases about Climate Variability in Smallholder Farming Systems in Zambia." *Weather, Climate and Society*.

BLOGS, INTERVIEWS & PODCASTS

"Sustaining Hoosier farms," interview with James Farmer and Julia Valliant, *Through the Gates at IU*, Jan. 23, 2019.

"Building institutional foundations for community forest management," Rucha Ghate and Harini Nagendra, *DownToEarth*, Jan. 29, 2019.

"The virtue economy," Suzie Mulesky, *Quillette*, Jan. 31, 2019.

"How far should organizations be able to go to defend against cyberattacks?," Scott Shackelford, *The Conversation*, Feb. 15, 2019.

Interview with James Farmer on farmers' markets and SNAP use, *The New Food Economy*, Feb. 28, 2019.

"The US Takes Tentative Steps Toward Opening Up Government Data," Angie Raymond, Beth Cate, and Scott Shackelford, *The Conversation*, Mar. 6, 2019.

Angela Babb interviewed on SNAP and the Thrifty Food Plan, *The New Food Economy*, Mar. 7, 2019.

Scott Shackelford is featured in the *The CyberWire Daily Podcast*, Mar. 8, 2019.

"Thinking ecologically about our urban future," by Harini Nagendra, APU, Bengaluru, India.

"Indiana Matters: Environmental Change," Indiana Public Media, Apr. 24, 2019 (featuring Shahzeen Attari, Dan Cole, Burney Fischer, Elinor Ostrom, et al.).

Eduardo Brondizio speaks about the significance of the Global Assessment, WWF International, May 6, 2019.

"Indigenous people have been effective stewards of biodiversity globally," interview with Prakash Kashwan about his book, *Democracy in the Woods*, Down To Earth, May 13, 2019.

Elinor Ostrom as a Mentor: An Interview between Vlad Tarko & Bobbi Herzberg, Hayek Program Podcast, June 1, 2019.

"The U.S. Needs an NTSB for Cyberattacks," Scott Shackelford, *Wall Street Journal*, June 4, 2019.



A CULTURE *of* PERPETUAL **DISCOVERY**

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