



Building Bridges:

RESEARCH TO PRACTICE

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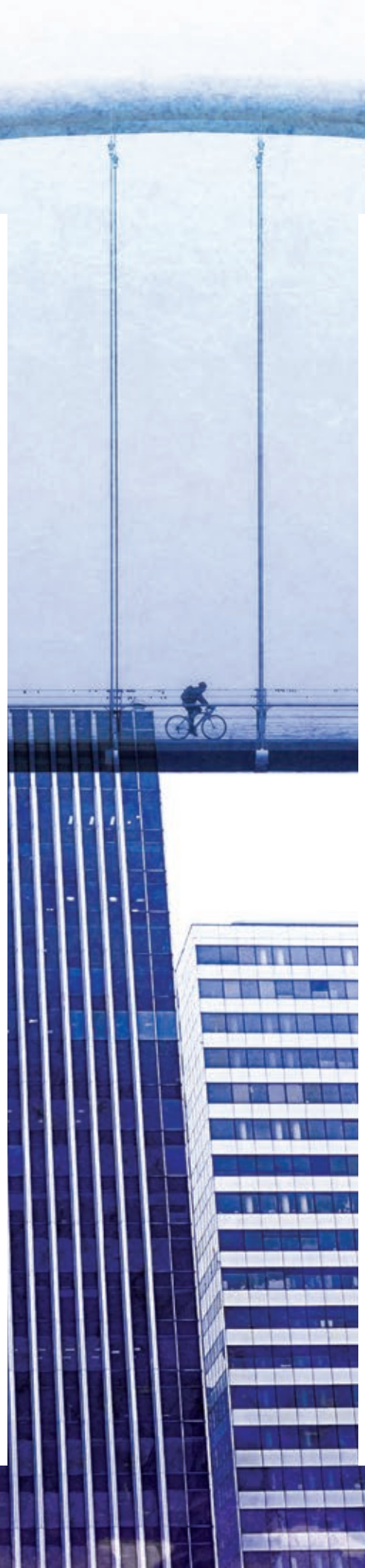
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LOOKING AHEAD





The Penn Institute for Urban Research (Penn IUR) is a university-wide body that informs urban decision-making and public policy on issues of sustainable urban growth and development based on multi-disciplinary research, instruction, and outreach.

As the global population becomes increasingly urban, understanding cities is vital to informed decision-making and public policy at the local, national, and international levels. Affiliated with all 12 schools of the University of Pennsylvania and with the world of practice, Penn IUR fosters collaboration among scholars and policymakers across disciplines to address the needs of an increasingly urbanized society. By providing a forum for collaborative scholarship and instruction at Penn and beyond, Penn IUR stimulates research and engages with urban practitioners and policymakers to inform urban policy.

This annual report details Penn IUR's accomplishments from July 2017 through June 2018 and looks ahead to future initiatives.



Penn IUR's strength lies in its ability to make connections, to nurture networks of people and institutions, and to collaborate across boundaries. This is the only approach that can successfully address the myriad interconnected social, economic, and environmental challenges that accompany rapid global urbanization.



Penn IUR's partnership with Perry World House (PWH) and the Kleinman Center for Energy Policy (KCEP) to curate and disseminate research at Penn on the topic of sustainable global urbanization exemplifies this approach: this year, the three Penn centers co-produced a paper series investigating a broad variety of topics related to sustainable urbanization, with contributions from scholars across the University; mounted an exhibition at the ninth World Urban Forum (WUF9), held in Kuala Lumpur, Malaysia in February 2018, to disseminate this research; and hosted a speaker series at WUF9 with presenters drawn from the centers' extended networks.

Other stand-out collaborations in 2017–2018 included: cosponsoring the January 17 workshop hosted by PWH on interpretations of the *New Urban Agenda*, ongoing support of PWH's inaugural research theme investigating major trends affecting human geography, and collaboration with PWH and the Office of the Provost on "Smart Cities: From Innovation to Reality."

Another project that exemplifies Penn IUR's prowess at cultivating the collaborative relationships required to address the challenges of global urbanization is the Humanities+Urbanism+Design Initiative (H+U+D). This groundbreaking five-year Initiative, funded by the Mellon Foundation,

concluded in 2018; over its lifespan it brought together urban-focused faculty and students from all 12 schools to create lasting relationships, share ideas, and generate knowledge—and through its success, laid the foundation for another five-year, Mellon-funded Initiative: starting in the fall of 2018, "The Inclusive City: Past, Present, and Future," will retain the basic structure of the original H+U+D project with a new thematic focus on diversity and inclusion.

Penn IUR developed a new program for undergraduates in 2017–2018 as well. Fellows in Urban Leadership—a program that links competitively selected undergraduates with urban practitioners in the public and private sectors and civil society—will welcome its first cohort of undergraduates in the fall of 2018. This is just the latest program in Penn IUR's extensive support of students at all stages of their academic careers, joining the Undergraduate Urban Research Colloquium (UURC), the Master of Urban Spatial Analytics (MUSA), as well as opportunities for Ph.D. students to network and share their research.

We are excited to see how these new programs take shape and to continue to enjoy, with the rest of the Penn community, the ongoing projects, programs, and publications for which Penn IUR has become known.



Wendell Pritchett

Provost; Presidential Professor of Law and Education



Dawn Bonnell

Vice Provost for Research; Henry Robinsons Towne Professor of Engineering and Applied Science

Penn IUR has a long history of bridging the academy and field. In looking back over this past year, it is clear that this remains at the heart of the Institute's work. From research initiatives and publications to expert convenings and its networks of scholars, Penn IUR is deeply committed to making essential urban research accessible to a wide and diverse audience: academics, students, policymakers, practitioners, and the public.



Year after year, Penn IUR explores the challenges and opportunities for sustainable urban development. This year, Penn IUR's research initiatives focused on four aspects of this expansive issue: global urbanization and the associated rapid and unplanned growth; public finance challenges; energy efficient technologies and practices; and disaster risk, resiliency, and recovery. All of these initiatives deliver current research to those making a difference on the ground through resources such as the World Urban Forum 9 (WUF9) exhibition Penn IUR mounted in Kuala Lumpur with Perry World House and the Kleinman Center for Energy Policy; Penn IUR's new online resource entitled "State and Local Public Finance Links"; and the U.S.–Japan Grassroots Exchange, "Citizen Participation in Community Building Post-Disaster."

Penn IUR's publications provide translational research in multiple formats, ensuring that timely urban research is conveyed via a variety of means and thereby to a variety of constituents. In particular, it was a great honor to partner with the School of Social Policy and Practice (SP2) to capture the personal and professional experience of Michael Nutter, former Philadelphia mayor and Senior SP2 Executive Fellow at Penn IUR, in *Mayor: The Best Job in Politics*, a Penn Press book in The City and the 21st Century (C21) series. While the C21 series memorializes issues of long-standing importance, the bi-weekly Social Science Research Network (SSRN) *Urban Research eJournal*, the monthly Penn IUR *Urban Link*, and the special issue briefs like "Penn: Current Research on Sustainable Urban Development," quickly disseminate research, responding to critical issues of the moment.

Penn IUR's 23 public and expert convenings provide a face-to-face forum for bridging the academy and field. Often these sessions provide the catalyst for in-depth research. For example, "Perspectives on Fair Housing," which convened leading scholars and practitioners working on issues of equality and housing on the Fair Housing Act's 50th anniversary, is leading to a book on the effects of this policy and the road ahead.

Penn IUR's work could not be done without the many contributions from its community of scholars, practitioners, students, and donors. This year, with the enthusiastic support of the Penn IUR Advisory Board, we were delighted to launch Penn IUR Fellows in Urban Leadership. This program links a small cohort of competitively-selected Penn undergraduates with its network of high-level local, regional, and national leaders from government, business, and civil society to discuss public and private decision-making and help students envision their own future roles in helping shape sustainable urban places. With initiatives like this, we are looking forward to a bright future through the contributions of the next generation of urban leaders.

Penn IUR's accomplishments owe a great deal to the unwavering support of Penn's President, Amy Gutmann, and Provost, Wendell Pritchett; Penn IUR's Advisory Board and Executive Committee; its many grantors and donors; and centers like the Perry World House and Kleinman Center for Energy Policy. For this, we are most grateful for where we have been and excited about the opportunities to come.



Eugénie Birch

Co-Director, Penn Institute for Urban Research; Lawrence C. Nussdorf Professor of Urban Research and Education Professor; Department of City and Regional Planning, School of Design



Susan Wachter

Co-Director, Penn Institute for Urban Research; Sussman Professor; Professor of Real Estate and Finance, The Wharton School



Egbert Perry

Advisory Board Chair, Penn Institute for Urban Research; Chairman and CEO, The Integral Group LLC

CURRENT RESEARCH INITIATIVES

Penn IUR's research initiatives investigate how cities across the globe can become more sustainable, resilient, and equitable. Through its activities, Penn IUR generates new scholarship and promotes the exchange of knowledge across disciplines, professions, and continents.



GLOBAL URBANIZATION

Global urbanization is arguably the most critical issue of the 21st century. The majority of the world's population now lives in urban areas, with this proportion expected to increase to two-thirds by 2050.

Through its Land for Public Good in Emerging Economies Initiative, launched in 2014–2015 and supported by Advisory Board member Robert Stewart (W '88), Penn IUR addresses the problem of rapid, unplanned urbanization characterized by the uncontrolled spread of crowded informal settlements in ecologically vulnerable areas. In 2017–2018, Penn IUR created an "Urban Informality Lab," engaging doctoral students in basic research on the topic. Several doctoral dissertations emanating from the Lab will be examining the lived experience in informal settlements in Africa and South East Asia. The researchers address issues related to regional water supply, land use decisions, and the dynamics of "villages in the city," the process by which development at the peripheries of rapidly urbanizing places engulfs nearby settlements. Penn's Global Engagement Fund has provided additional support for this work, namely sponsoring seminars and fieldwork in India and Africa.

Another signature program of the Land for Public Good in Emerging Economies Initiative is the Renewable Energy, Nutrition, Environment, Water, and Waste (RENEWW) Innovation Zones project, for which Penn IUR serves as the Secretariat. Partners—including the U.S. Department of State, the National Renewable Energy Laboratory, Context Partners, Future Earth, World Resources Institute, the City of Oakland, Texas A&M University, Stanford University, MIT, and others—are investigating how to facilitate sustainable circular economies in peri-urban communities. Specifically, the RENEWW project explores how simple and cost-effective technology can derive new water, biogas, and fertilizer from wastewater; produce food and biofuel

with the recycled inputs; and replace fossil energy with renewables. The aim is to expand access to basic services in informal communities that now house some 900 million people (and growing) in low- and middle-income countries.

In 2017–2018, Penn IUR and partners explored ways to realize RENEWW zones on the ground, identifying potential pilot cities for which to develop—with local stakeholders—designs for large parcels of land that can support populations' needs for sustainable water, food, energy, and sanitation. In addition, Penn IUR and partners promoted the project at UN-Habitat's World Urban Forum 9 (WUF9)—the ninth convening of the world's premier conference on cities, held in February 2018 in Kuala Lumpur, Malaysia—and at UNC's Nexus Conference in Chapel Hill in April. (See "Looking Ahead" on page 106 for more on the pilot project design workshops planned for next year.)

In 2017–2018, Penn IUR has also continued to help shape the global conversation around sustainable urbanization, most notably through engagement in the United Nations and other Penn centers. Penn IUR supports the General Assembly of Partners (GAP), the engagement platform focused on supporting the UN's global agreements on sustainable urban development (*Agenda 2030* [2015] and the *New Urban Agenda* [2016]) with a membership of more than 1,200 unique organizations organized into 17 stakeholder groups. (See generalassemblyofpartners.org.)

GAP was originally created to participate in the preparations for the UN's Habitat III conference held in Quito, Ecuador in October 2016; its members helped shape the conference's outcome document, the *New Urban Agenda*. After Habitat III, they elected to continue their work, focusing on implementation and monitoring of the resulting

programs and policies at the local level around the world. Penn IUR Co-Director Eugénie Birch has been President of GAP since its inception. Penn IUR continues to support the group, notably through management of the Global Urban Commons (The Commons), an online source for information about global urban research created by Penn IUR in the fall of 2014, which serves as GAP's communications arm. (To learn more about The Commons, see page 30.)

In February 2018, Penn IUR participated in WUF9, partnering with Penn's Kleinman Center for Energy Policy (KCEP) and Perry World House (PWH) to share Penn's expertise on urban issues with WUF9 attendees through an exhibition, lectures on current research, and a paper series, *Penn: Current Research on Sustainable Urban Development*, that focused on key issues being addressed at WUF9. The three centers sent a delegation of nearly a dozen researchers, students, and staff members to Kuala Lumpur. (To learn more about the paper series, see page 28. To read selections from papers in the series, see page 32.)

This year, Penn IUR also continued to collaborate with Perry World House (PWH) on its inaugural research theme, "Global Shifts: Migration, Urbanization, and Demography," which explores major global trends transforming the human environment and applies rigorous academic research to understand how policy can serve sustainable development in the coming decades. In 2017–2018, Penn IUR contributed to this exploration by supporting PWH on the September 7, 2017 talk by Aisa Kirabo Kacyira, Deputy Executive Director of UN-Habitat and UN Assistant Secretary-General, entitled "Urban Urgency: How today's actions will determine tomorrow's collective prosperity," and supporting Kyung-Hwan Kim, Professor, School of Economics, Sogang University, former President, Korea Research Institute for Human Settlements, and former Vice Minister, Ministry of Land, Infrastructure and Transport (MOLIT), Republic of Korea as a PWH Visiting Fellow. While at Penn, Kim shared his expertise on global housing issues and smart city innovations and contributed to the PWH Workshop "The *New Urban Agenda*: How Stakeholders are Defining and Driving Implementation," held January 17, 2018 and attended by policymakers, practitioners, and scholars. He also co-authored a paper for the WUF9 paper series on urban housing with Susan Wachter, Penn IUR Co-Director, and Marja Hoek-Smit, Adjunct Professor of Real Estate, Director / Founder, International Housing Finance Program, Zell / Lurie Real Estate Center, the Wharton School.



ABOVE: Downtown Kuala Lumpur, Malaysia where WUF9 was held.

LEFT: Eugénie Birch presents on the Penn paper series at WUF9.





TRANSFORMING OUR ECONOMIES

Penn IUR works to address new challenges surrounding the complex finance issues facing cities in the United States.

Penn IUR's State and Local Public Finance Initiative addresses the looming problem of underfunded state and local pensions, which is threatening the fiscal solvency and financial obligations of a number of the nation's subnational governments. Penn IUR, under the leadership of Advisory Board member Mark Rosenberg, convened the "Municipal Finance Working Group," a group of leading industry experts and policymakers who meet regularly to explore challenges and opportunities related to market transparency and public understanding of this issue. This year, Penn IUR put together an online resource library for planners, policymakers, and researchers to access the most recent analysis and information about state and local public finance in the United States. (To learn more about this online library, see page 31.)

In 2017–2018, Penn IUR also advanced scholarship and discussion related to housing affordability and housing finance systems with two conferences on the topic: "U.S. Housing Policy: The Future of What Works," convened by Penn IUR Faculty Fellows John Landis and Vincent Reina with support from Penn IUR on September 15, 2017; and "Perspectives on Fair Housing," hosted by Penn IUR on April 11, 2018. (For more on these convenings, see page 66.)

These efforts are part of a multi-year initiative to investigate urban fiscal sustainability, made possible with support from Penn IUR Advisory Board member Lawrence Nussdorf (W '68).

Penn IUR's State and Local Public Finance Initiative addresses the looming problem of underfunded state and local pensions, which is threatening the fiscal solvency and financial obligations of a number of the nation's subnational governments.



SUPPORTING SUSTAINABLE ENERGY

Penn IUR continues to promote the adoption of energy efficient technologies and practices across the Asia Pacific by facilitating knowledge transfer and reviewing best practices.

In December 2017, Penn IUR published *Gap Assessment on APEC Energy Efficiency and Conservation Work Towards Fulfilling the Leaders' Energy Intensity Reduction Goal*, the result of a gaps analysis of Asia Pacific Economic Cooperation (APEC)-sponsored energy efficiency projects intended to support continued progress toward APEC's energy intensity goals. Penn IUR researcher Amanda Lloyd scrutinized the nearly 200 projects funded by APEC since 1993, contextualized the findings, and recommended priorities for future funding.

The study has three parts: an analysis of funded projects, an evaluation of the macroeconomic and regulatory environment in which APEC economies are working, and an assessment of gaps in the APEC-EWG's energy efficiency work. (To read an excerpt from the report, see page 60.)

Lloyd presented the findings at the 51st meeting of the APEC EGEE&C in Washington, D.C. on April 12, 2018.

This work is a continuation of Penn IUR's ongoing relationship with APEC economies to promote the adoption of energy efficient technologies and practices across the Asia Pacific by supporting knowledge transfer and the adoption of best practices. This past year, Penn IUR further strengthened this relationship through its interaction with the Asia Pacific Sustainable Energy Center (APSEC), created in 2015 to help reduce aggregated energy intensity by supporting the development and dissemination of sustainable energy technologies and knowledge across the APEC region. Penn IUR Co-Director Eugénie Birch serves on the APSEC Advisory Board, helping APSEC define its program and optimize knowledge-sharing. On July 17 and 18, 2017 APSEC invited Penn IUR to Tianjin, China to present on a project Penn IUR developed for the APEC-EWG in years past: the Energy Smart Communities Initiative Knowledge Sharing Platform (ESCI-KSP), a web-based knowledge-sharing platform that highlights best practices and demonstration projects in energy efficient urban development.

DISASTER IN URBAN LANDSCAPES: PREPAREDNESS, RESPONSE, AND RECOVERY

Penn IUR broadens understanding of the critical issue of disaster in urban landscapes through its publications and conferences. In 2017–2018, Penn IUR concluded a three-year exchange program between the United States and Japan and launched a joint research project on flood risk with Fannie Mae and the Wharton Risk Management Center.

The “U.S.–Japan Grassroots Exchange: Citizen Participation in Community Building

Post-Disaster” was an exchange program designed to build next-generation leadership capacity and networks that engage citizens in community rebuilding after a disaster. Concluding in December 2017 with a four-day program hosted by Penn IUR and the East–West Center, with funding from the Japan Foundation Center for Global Partnership, the project featured in its first two years travel exchanges between Japan and the United States. (For more on the December convening, see page 68.)

In the spring of 2018, Penn IUR launched “Flood Risk and the U.S. Housing Market,” a joint research project with the Wharton Risk Management Center. This project includes a review of academic research that surveys the topic of flood risk across communities in the U.S., looking specifically at the adequacy of current flood risk hazard mapping, risk management given current insurance programs, the effect of flood risk on house prices in high risk areas and longer-term neighborhood effects of flood events.

RIGHT: Delegates from the U.S. and Japan discuss lessons learned from the U.S.–Japan Grassroots Exchange.

BELOW: New Orleans post-Katrina. Photo by NOAA Photo Library, via Flickr.



The Penn IUR project “Flood Risk and the U.S. Housing Market,” includes a review of academic research that surveys the topic of flood risk across communities in the U.S., looking specifically at the adequacy of current flood risk hazard mapping, risk management given current insurance programs, the effect of flood risk on house prices in high risk areas and longer-term neighborhood effects of flood events.



TRANSLATIONAL RESEARCH: PUBLICATIONS & DISSEMINATION

Disseminating research is central to Penn IUR's mission and a core part of all of its activities. The Institute disseminates research in print and online publications as well as by creating spaces—both physical and virtual—for knowledge-exchange among researchers and practitioners.

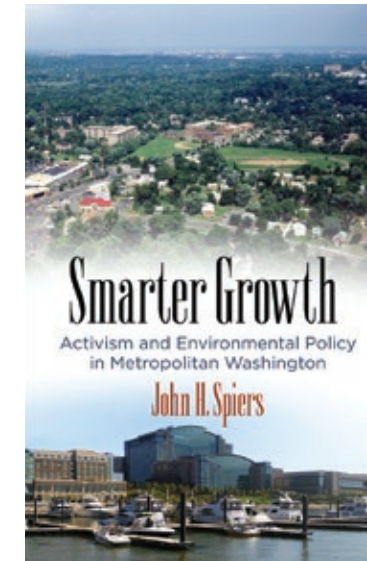
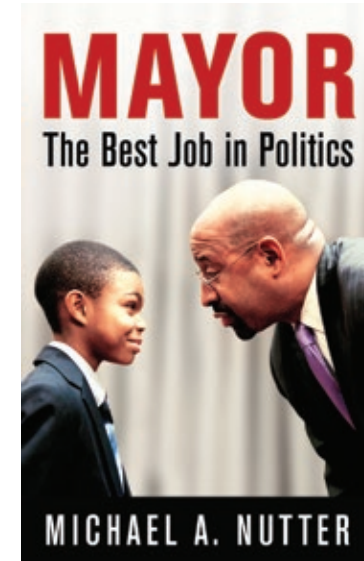
Publications include *The City in the 21st Century (C21)* book series published by the University of Pennsylvania Press, the *SSRN Urban Research eJournal*, *Urban Link*, and a variety of special reports and articles, including a paper series published in collaboration with Perry World House and the Kleinman Center for Energy Policy in advance of the World Urban Forum 9 (WUF9) held in Kuala Lumpur, Malaysia in February 2018. Spaces for knowledge-exchange included hosting, also in partnership with PWH and KCEP, an exhibition at WUF9, as well as supporting two online platforms: *Global Urban Commons* and *State and Local Finance Links*.



THE CITY IN THE 21ST CENTURY BOOK SERIES

Penn IUR's Co-Directors Eugénie Birch and Susan Wachter edit *The City in the 21st Century (C21)* book series published by University of Pennsylvania Press, which now includes 37 volumes. This series explores the depth and breadth of contemporary urban-focused scholarship across a wide range of disciplines including anthropology, planning, sociology, economics, architecture, urban design, political science, and history. The series represents a cross-section of research and experience related to the city across the developed and developing world.

In 2017–2018, Penn Press released two new volumes in the series: *Mayor: The Best Job in Politics* by Michael A. Nutter and *Smarter Growth: Activism and Environmental Policy in Metropolitan Washington* by John H. Spiers.



This series explores the depth and breadth of contemporary urban-focused scholarship across a wide range of disciplines including anthropology, planning, sociology, economics, architecture, urban design, political science, and history.

Mayor: The Best Job in Politics, published in November 2017, is Mayor Nutter's memoir of his eight years as Mayor of Philadelphia and the road he took to get there. In it, he details the triumphs and challenges that he faced from the time he was sworn in as Mayor in 2007 until he left office in 2016, arguing that—while there are “higher” offices, like President and Governor—he believes running a city is the closest office to people and their “real lives.” The book recounts tasks that range from the mundane (snow removal, trash collection, and drinkable water), to the momentous (the Great Recession and, on a positive note,

the Phillies' World Series win), to tasks that are not political (“there is no Democratic or Republican way of cleaning streets”). The book details successes—including city population growth for the first time in 50 years, high school graduation rate increases, upgraded bond ratings, and a construction boom—and laments the persistence of poverty.

Smarter Growth: Activism and Environmental Policy in Metropolitan Washington, published in June 2018, examines the politics of suburban sprawl and the role activists have played in pushing state and local officials to address the environmental and fiscal costs of metropolitan growth. Spiers argues that

metropolitan Washington, D.C., in particular, laid the foundations for a smart growth movement that blossomed in the late 20th century. He also draws on case studies—including the Potomac River's cleanup, local development projects, and agricultural preservation—to identify two periods of heightened environmental consciousness in the early to mid-1970s and the late 1990s that resulted in stronger development regulations and land preservation across much of metropolitan Washington.

To read excerpts from *Mayor* and *Smarter Growth*, see pages 48 and 52.

The University of Pennsylvania Press publishes its volumes in hardcover, paperback, and electronic versions. Below is the complete C21 collection.

HC = HARD COVER | PB = PAPERBACK | EB = E-BOOK



Roger D. Abrahams with Nick Spitzer, John F. Szwed, and Robert Farris Thompson
Blues for New Orleans: Mardi Gras and America's Creole Soul
(HC 2006, EB 2010)



Elijah Anderson with a foreword by Cornel West, editor
Against the Wall: Poor, Young, Black, and Male
(PB 2009, EB 2011)



Eugénie L. Birch and Susan M. Wachter, editors
Rebuilding Urban Places After Disaster: Lessons from Hurricane Katrina
(PB 2006, EB 2013)



Eugénie L. Birch and Susan M. Wachter, editors
Growing Greener Cities: Urban Sustainability in the Twenty-First Century
(PB 2008, EB 2011)



Afaf Ibrahim Meleis, Eugénie L. Birch, and Susan M. Wachter, editors
Women's Health and the World's Cities
(HC 2011, PB 2013, EB 2011)



Harriet B. Newburger, Eugénie L. Birch, and Susan M. Wachter, editors
Neighborhood and Life Chances: How Place Matters in Modern America
(HC 2011, PB 2013, EB 2011)



Michael A. Nutter
Mayor: The Best Job in Politics
(HC 2017, EB 2017)



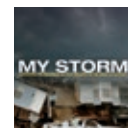
Laura W. Perna, editor
Preparing Today's Students for Tomorrow's Jobs in Metropolitan America
(HC 2012, EB 2012)



Eugénie L. Birch and Susan M. Wachter, editors
Global Urbanization
(HC 2011, EB 2011)



Eugénie L. Birch, Shahana Chattaraj, and Susan M. Wachter
Slums: How Informal Real Estate Markets Work
(HC 2016, EB 2016)



Edward J. Blakely with a foreword by Henry Cisneros
My Storm: Managing the Recovery of New Orleans in the Wake of Katrina
(HC 2011, EB 2012)



Peter Hendee Brown
America's Waterfront Revival: Port Authorities and Urban Redevelopment
(HC 2008)



Marina Peterson
Sound, Space, and the City: Civic Performance in Downtown Los Angeles
(HC 2010, PB 2012, EB 2012)



Marina Peterson and Gary McDonogh, editors
Global
(HC 2011, PB 2014, EB 2012)



Judith Rodin
The University and Urban Revival: Out of the Ivory Tower and Into the Streets
(HC 2007, EB 2015)



Cristina D. Rosan
Governing the Fragmented Metropolis: Planning for Regional Sustainability
(HC 2016, EB 2016)



Peter Hendee Brown
How Real Estate Developers Think: Design, Profits, and Community
(HC 2015, PB 2017, EB 2015)



Jon Calame and Esther Charlesworth
Divided Cities: Belfast, Beirut, Jerusalem, Mostar, and Nicosia
(PB 2012, EB 2011)



Naomi Carmon and Susan Fainstein
Policy, Planning, and People: Promoting Justice in Urban Development
(PB 2013, EB 2013)



Ram Cnaan with Stephanie C. Boddie, Charlene C. McGrew, and Jennifer Kang
The Other Philadelphia Story: How Local Congregations Support Quality of Life in Urban America
(HC 2006, EB 2010)



Brent D. Ryan
Design After Decline: How America Rebuilds Shrinking Cities
(HC 2012, PB 2014, EB 2012)



John H. Spiers
Smarter Growth: Activism and Environmental Policy in Metropolitan Washington
(HC 2018, EB 2018)



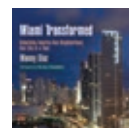
John Timoney with a foreword by Tom Wolfe
Beat Cop to Top Cop: A Tale of Three Cities
(HC 2010, EB 2011)



Domenic Vitiello and Thomas Sugrue, editors
Immigration and Metropolitan Revitalization in the United States
(HC 2017, EB 2017)



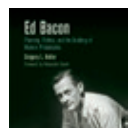
Margaret Dewar and June Manning Thomas, editors
The City After Abandonment
(HC 2012, EB 2012)



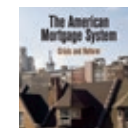
Manny Diaz with a foreword by Michael Bloomberg
Miami Transformed: Rebuilding America One Neighborhood, One City at a Time
(HC 2012, PB 2014, EB 2012)



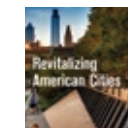
Zaire Zenit Dinzey-Flores
Locked In, Locked Out: Gated Communities in a Puerto Rican City
(HC 2013, EB 2013)



Gregory L. Heller with a foreword by Alexander Garvin
Ed Bacon: Planning, Politics, and the Building of Modern Philadelphia
(HC 2013, PB 2016, EB 2013)



Susan M. Wachter and Marvin M. Smith, editors
The American Mortgage System: Crisis and Reform
(PB 2014, EB 2011)



Susan M. Wachter and Kimberly A. Zeuli, editors
Revitalizing American Cities
(HC 2013, EB 2013)



Susan M. Wachter, editor
Public Pensions and City Solvency
(HC 2016, EB 2015)



Susan M. Wachter and Lei Ding, editors
Shared Prosperity in America's Communities
(HC 2016, EB 2016)



Michael B. Katz
Why Don't American Cities Burn?
(HC 2011, PB 2013, EB 2012)



Scott Knowles
The Disaster Experts: Mastering Risk in Modern America
(HC 2011, PB 2013, EB 2012)



Martin Krieger
Urban Tomographies
(HC 2011, EB 2011)



Christian Krohn-Hansen
Making New York Dominican: Small Business, Politics, and Everyday Life
(HC 2012, EB 2012)



Susan M. Wachter and Joseph Tracy, editors
Principles of Housing Finance Reform
(HC 2016, EB 2016)

SOCIAL SCIENCE RESEARCH NETWORK (SSRN) *URBAN RESEARCH eJOURNAL*

Penn IUR's *Urban Research eJournal*, published twice weekly through the Social Science Research Network (SSRN), gathers and distributes new research that addresses the governance, policy, economics, design, and social issues that surround global urbanization. The eJournal highlights the urban-focused research of scholars worldwide. Edited by Penn IUR Co-Directors Eugénie Birch and Susan Wachter and overseen by an advisory board of preeminent urban scholars, it accepts abstracts, working papers, and recently published articles. A sample of recently published articles includes "Big or Small Cities? On City Size and Economic Growth," by Susanne A. Frick, London School of Economics and Political Science (LSE), and

Andrés Rodríguez-Pose, London School of Economics and Political Science (LSE)—Department of Geography and Environment; "Long-term Outcomes of FHA First-time Homebuyers," by Donghoon Lee, Senior Economist, Federal Reserve Bank of New York, and Joseph S. Tracy, Director of Research, Federal Reserve Bank of New York; "Good Urban Governance as a Global Aspiration: On the Potential and Limits of Sustainable Development Goal 11," by Helmut Aust, Professor of Law, Freie Universität Berlin, and Anel du Plessis, North-West University. Since its inception in 2012, *Urban Research eJournal* articles have been downloaded more than 700,000 times.



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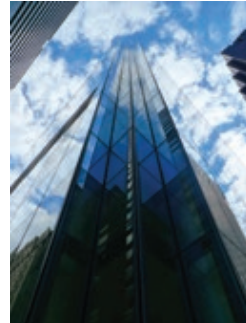
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URBAN LINK

Urban Link is Penn IUR's monthly online publication that features expert commentary on urban topics and highlights Penn IUR news and events. Launched in November 2012, *Urban Link* has more than 5,500 subscribers. Penn IUR's Faculty Fellows and Scholars author *Urban Link*'s articles, allowing Penn IUR to disseminate the groundbreaking scholarship of its associates. This year, Penn IUR Faculty Fellows and other scholars and practitioners contributed the following features:

IOURII MANOVSKII

"Philadelphia FSRDC: A New Tool for Urban Research." August 2017.

LISA SERVON

"The Unbanking of America." September 2017.

VINCENT REINA

"Navigating the Unchartered Waters of U.S. Housing Policy." October 2017.

KEN LUM

"Monument Lab: Memorializing Philadelphia as a Place of Crisis and Boundless Hope." November 2017.

MAYOR MICHAEL NUTTER

"Mayor: The Best Job in Politics." December 2017.

EXPERT VOICES 2018:

AMAZON'S \$5 BILLION QUESTION

Special New Year's issue with contributions from Timothy Bartik, Angela Glover Blackwell, Richard Florida, Amy Gutmann, Amy Liu, Arthur C. Nelson, Jeremy Nowak, Frederick Steiner, Mark Strauss, Tom Wright, and Mark Zandi. January 2018.

EUGÉNIE BIRCH, WILLIAM BURKE-WHITE, AND MARK ALAN HUGHES, EDITORS

WUF9 Paper Series: Current Research on Sustainable Urban Development. February 2018.

JEREMY NOWAK

"The New Localism: Jeremy Nowak Discusses How Cities Can Thrive in the Age of Populism." March 2018.

RICHARD VOITH AND EUGÉNIE BIRCH

"What Will the Year Bring for Smart Cities?" April 2018.

ELIJAH ANDERSON

"Black in White Space." May 2018.

To read the November issue of *Urban Link*, see page 56.

Spotlight On: January 2018 *Urban Link*

Every year, Penn IUR queries its leading experts and scholars on an issue that will be important in the upcoming year and publishes their responses in the first *Urban Link* issue of the year. This year, in response to Amazon's announcement of its search for location for a second headquarters, Penn IUR asked: How will cities gain or lose from the competition to host Amazon's second North American headquarters?

TIMOTHY BARTIK

A Decision with the Potential to Ignite Tax Incentives

ANGELA GLOVER BLACKWELL

Cities Should Invest in Their Future Rather Than Compete to Give Away the Store

RICHARD FLORIDA

Amazon's Big Mistake

AMY GUTMANN

Let's Keep the Momentum Going

AMY LIU

All Cities Can Win—If They Take the Opportunity to Rethink Economic Growth

ARTHUR C. NELSON

The Winning City May Also Be the Loser

JEREMY NOWAK

The Amazon Sweepstakes

FREDERICK STEINER

The Path to Innovation in Philadelphia

MARK STRAUSS

A Way for All Cities to Win: Make the Proposals Available for Public View

TOM WRIGHT

An Opportunity for Cities to Consider What They Need to Attract Capital Investment

MARK ZANDI

A Huge Win for a Lucky City

TO READ RESPONSES FROM THESE URBAN EXPERTS,

visit the "Publications" section of the Penn IUR website: penniur.upenn.edu/publications



BRIEFS AND SPECIAL REPORTS

Penn IUR publishes briefs and special reports, disseminating these publications through its website and other means. Penn IUR Briefs offer in-depth research and analysis on timely urban topics. Launched in November 2015 and authored by Penn IUR faculty fellows and scholars, the series provides an avenue for disseminating new research and policy analysis undertaken by Penn IUR's network of urban experts. This February, Penn IUR, in collaboration with Perry World House (PWH) and Kleinman Center for Energy Policy (KCEP), published a series entitled "Penn: Current Research on Sustainable Urban Development." In 2017–2018, Penn IUR also published a special report entitled "U.S.–Japan Grassroots Exchange Program: Citizen Participation in Community Building Post-Disaster."

The papers in the "Penn: Current Research on Sustainable Urban Development" series explored topics central to the implementation of the *New Urban Agenda* and the Sustainable Development Goals (SDGs), particularly on governance, energy, urban migration and integration, and planning and land use (see list of papers in the series at right). Penn IUR, PWH, and KCEP published the series to bring Penn's expertise on urban issues to the World Urban Forum (WUF9), the world's premier conference on urban issues, held in Kuala Lumpur, Malaysia, from February 7–13, 2018. (For more on Penn IUR's participation in WUF, see page 13. To read excerpts from a selection of these papers, see page 32.)

Spotlight On:

"Penn: Current Research on Sustainable Urban Development" Paper Series

EUGÉNIE BIRCH, Penn Institute for Urban Research; WILLIAM BURKE-WHITE, Perry World House; and MARK ALAN HUGHES, Kleinman Center for Energy Policy; with CARA GRIFFIN, Penn Institute for Urban Research

"Introduction to Penn's Current Research in Sustainable Urban Development: From Global to Local"

Three Penn centers show how cross-disciplinary research contributes to implementing the SDGs and the NUA.

EUGÉNIE BIRCH, Penn Institute for Urban Research

"More than Window Dressing? Stakeholders and Partnerships in UN Global Agreements: An Exploration of Arrangements to Move Toward Pluralistic Global Governance"

Birch highlights the evolving role of stakeholders in the global governance system and the importance of civil society.

WILLIAM BURKE-WHITE, Perry World House and LAURA BARRON, Penn Institute for Urban Research

"The Changing Landscape of Climate Governance: The Rise of Cities as Global Actors and Policy Implementers"

Burke-White and Barron argue that cities have significant and often under-appreciated potential to advance climate policy.

DANIEL ALDANA COHEN, School of Arts and Sciences

"Climate Justice and the Right to the City"

Cohen demonstrates the importance of democratically pursuing climate policies that reduce social inequality.

MARK ALAN HUGHES and CORNELIA COLIJN, Kleinman Center for Energy Policy

"Putting Energy into Implementation: Challenges to Subnational Participation in SDG 7"

Hughes and Colijn detail intergovernmental, intersectoral, and internal challenges facing the local implementation of SDG 7 and discuss practices and policies to alleviate these challenges.

ONOSO IMOAGENE, School of Arts and Sciences

"Achieving a Win-Win: Tweaking the U.S. Diversity Visa (DV) Lottery Program to Maximize Immigrants' Potential and Improve Immigrant Quality"

Imoagene examines the impact of the diversity visa program on Ghanaian and Nigerian visa winners.

IAN KLAUS, Chicago Council on Global Affairs, and RUSSEL SINGER, United States Military Academy Department of Social Sciences

"The Urban United Nations: Local Authorities in Four Frameworks"

Klaus and Singer examine the stakeholder engagement processes of four recently negotiated frameworks.

RANDALL MASON, School of Design

"Conurbanism: Sustainable Urban Development as if Culture and the Inherited Environment Really Mattered"

Mason argues that more can be done to re-center frameworks around cultural values and inherited environments.

LISA MITCHELL, School of Arts and Sciences

"Spaces of Collective Representation: Urban Growth, Democracy, and Political Inclusion"

Mitchell argues that public space needs to be understood within specific historical, cultural, and sociopolitical contexts.

ANNE RICHARD and KATELYN LEADER, Perry World House

"A Case for Strengthening Evidence-Based Understanding of Refugee Integration in the United States and Around the World"

Richard and Leader demonstrate that improving evidence-based learning on refugee integration in the United States requires strengthening the collection of disaggregated and longitudinal data.

MARJA HOEK-SMIT, The Wharton School, KYUNG-HWAN KIM, Sogang University, and SUSAN WACHTER, The Wharton School

"Housing Inequality and the *New Urban Agenda*"

Hoek-Smit, Kim, and Wachter explore how housing policies and interventions can contribute to inclusion, resilience, and sustainability.

FREDERICK STEINER, School of Design

"The Ecological Wisdom of Plan-Making"

Steiner demonstrates how the planning process can help humanity adapt to the challenges of urbanization.

RICHARD WELLER, CHIEH HUANG, SARA PADGETT KJAERGAARD, ZUZANNA DROZDZ, and NANXI DONG, School of Design

"Hotspot Cities: Identifying Peri-Urban Conflict Zones in the World's Biodiversity Hotspots"

Weller, Huang, Kjaersgaard, Drozd, and Dong analyze the world's biodiversity hotspots.

GLOBAL URBAN COMMONS

Penn IUR hosts and manages the Global Urban Commons (The Commons), a publicly accessible online directory of urban research centers from around the world, a source for information about global urban research and a home base for the General Assembly of Partners (GAP), the multi-stakeholder engagement platform created to support the Habitat III conference and the implementation of the *New Urban Agenda*. Created in 2014 with seed funding from the University of Pennsylvania Press and the Rockefeller Foundation, Penn IUR continued in 2017–2018 to manage this site's searchable directory of urban research organizations and resources related to global urbanization. As a communications arm for GAP, the site documents the work of 17 separate partner groups and provides a directory of its more than 1,100 organizational members.

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 **FOR MORE INFORMATION, VISIT:**
globalurbancommons.org

STATE AND LOCAL PUBLIC FINANCE LINKS

State and Local Public Finance Links is an online resource for planners, policymakers, and researchers to access recent analysis and information about state and local public finance in the United States. Developed and maintained by Penn IUR with input from its Municipal Finance Working Group, a group of leading industry experts and policymakers, this online library focuses primarily on issues around the financial challenges state and local governments face with the need to repay accrued liabilities such as retiree pensions and health benefits. Updated monthly, the database contains news articles, research publications, and reports from researchers and organizations specializing in these issues.

 **THE RESOURCE CAN BE ACCESSED HERE:**
penniurpublicfinance.com



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TEXTS

Penn IUR disseminates knowledge through a variety of publications: books, briefs, journal articles, reports, and online publications. Following are excerpts from some of the publications created over the 2017-2018 year.

MORE THAN WINDOW DRESSING?

Stakeholders and Partnerships in UN Global Agreements on Sustainable Urban Development, An Exploration of Arrangements to Move Toward Pluralistic Global Governance

Eugénie Birch

This selection is from "Penn: Current Research on Sustainable Urban Development," the series Penn IUR produced with Perry World House and Kleinman Center for Energy Policy in advance of the World Urban Forum 9, held in Kuala Lumpur, Malaysia in February 2018.

Starting in the 1960s the UN began to convene system-wide conferences to raise awareness about broad issues that it otherwise could not cover comprehensively in its regular proceedings. These meetings began to set global norms along with commitments to address them and to establish monitoring arrangements for the commitments (Haas 2002). ... The topics included the environment, gender, cities, information systems, food and others. In the 1970s alone, the UN convened a dozen such conferences (Fromerand 1996: 374). Initially, civil society had minimal roles in the meetings: some were invited to be observers, some helped with the preparations or contributed wording for the conference declarations unofficially. As time progressed, the conferences not only served to establish global norms and views around a particular topic but also as a conduit for shaping new global governance arrangements in these types of meetings, with those in the environmental arena being most effective in terms of redefining NGO / civil society roles, and others such as those dealing with the human settlements and cities following and advancing the new-found gains.

Activists and stakeholders, whether engaged in environmental, gender, or urban causes, energized by the existence of a given convening, began to make inroads in member state deliberations on global agreements through these conferences.

While they did not succeed in entering officially into member-state negotiating and decision-making deliberations as some, such as the advocates of subnational governments, would desire, they have played increasingly important roles in directly and indirectly influencing the conference outcomes. As such, they contributed to a slow evolution of more pluralistic governance practices—within the UN context. The course of these changes are demonstrated in a succession of all-UN conferences beginning in the 1970s, especially the environmental conferences held in 1972, 1992, and 2012.

The environmental meetings were pace-setting with regard to advancing the recognition of stakeholders and reliance on partnerships. At the first UN Conference on the Environment (1972, Stockholm), two types of experts were present, all in unofficial capacities. Economist Barbara Ward represented the first type: "traditional expert." She co-authored (with René Dubos) *Only One Earth*, the conference background volume, written at the request of the conference Secretary General, Maurice Strong, who had taken time off from heading the Canadian-foreign aid office (CIDA) to organize the affair. Strong also enlisted Ward to help shape the concepts for the outcome document during the preparatory meetings in advance of the conference. At the conference, Ward offered an hour-and-a-half address (an event

not recorded in the official minutes because, as an observer, not a member-state representative, she could speak only after the member states temporarily adjourned the official meeting). She was, by the way, one of the 300 observers that the member states accredited to the conference (Morphet 1966: 144).

A second type of non-member-state participant appeared at Stockholm in the form of some 10,000 activists (with varying levels of environmental expertise). While the official delegates representing 114 countries were convening, the activists who were not accredited to attend the formal meeting, organized five parallel meetings: the Environmental Forum, a scientific meeting sponsored by Sweden and the United States; the People's Forum, a convening of left-leaning NGOs; the Pow Wow, a group that discussed alternative technologies; the Dai Dong Conference, whose attendees focused on world peace and the environment; and an assembly dubbed the Hog Farm, a free-form encampment. Friends of the Earth and the editorial staff of *The Ecologist* issued a daily newspaper recounting the activities that took place outside of the official meetings. They not only attracted thousands of like-minded supporters but also gained international media attention.

For two weeks, the activists sponsored parades, side events, exhibits, and paper presentations

and lectures consumed Stockholm as the member states hammered out the conference's official outcome document, the *Declaration on the Environment* (Faramelli 1972). While one observer scornfully characterized these activists' participation as a "colorful collection of Woodstock grads, former Merry Pranksters and other assorted acid-heads, eco-freaks, save-the-whalers, doomsday mystics, poets, and hangers-on," he also cited the importance of the scientific community who used the time's increased digital horsepower to develop alarming, business-as-usual scenarios, work confirmed by such field witnesses as sea explorer Jacques Cousteau and others who reported on the global environmental decline (Clark, Friedman, and Hochtstetler 1998: 11; Rowland 2015).

In the end, this UN conference marked several accomplishments. For example, on the official side, it achieved the recognition of environmental issues as an important UN concern. On the unofficial side, it demonstrated the growth of the popular sustainability movement across the globe.

The format of this environmental summit—a relatively small official meetings paralleled by separate massive civil society convenings—would set a pattern for future UN-wide conferences as well as lay the foundation for follow-on conferences in the 1970s.



This UN conference marked several accomplishments. For example, on the official side, it achieved the recognition of environmental issues as an important UN concern. On the unofficial side, it demonstrated the growth of the popular sustainability movement across the globe.

PUTTING ENERGY INTO IMPLEMENTATION:

Challenges to Subnational Participation in SDG 7

Mark Alan Hughes and Cornelia Colijn

This selection is from “Penn: Current Research on Sustainable Urban Development,” the series Penn IUR produced with Perry World House and Kleinman Center for Energy Policy in advance of the World Urban Forum 9, held in Kuala Lumpur, Malaysia in February 2018.

Recently, Portland, Oregon attempted to implement its alignment of city goals with global goals by outlawing new fossil fuel infrastructure within its city limits. This decision garnered international attention, because the city, situated just west of both the Powder River Basin and the Bakken Shale Play, acts as a major global energy port, rail hub, and distribution center.

In 2016, Canadian energy company Pembina Pipeline Corporation proposed a new \$500 million propane export terminal, which was estimated to store 35 million gallons of fuel. Motivated to avoid building new infrastructure that would lock the city into decades of fossil fuel dependence, Portland’s City Council took the proposal as an opportunity to unanimously pass a series of ordinances banning such development in the city (Bureau of Planning and Sustainability 2016). The adoption created a new land-use class called “Bulk Fossil Fuel Terminals” and then proceeded to prohibit the construction or expansion of any proposal that met the categorization.

The zoning code change was subsequently challenged by fossil fuel companies and, in July 2017, the ban was reversed by the Oregon Land Use Board of Appeals (LUBA) on the grounds that it violated the Commerce Clause of the U.S. Constitution. The Commerce Clause gives Congress sole power to regulate interstate

commerce, and LUBA ruled the ordinances unconstitutional because they delayed and destructed the ability of those outside of Portland from consuming fossil fuels (Sickinger 2017).

The LUBA decision came two months after Oregon joined the We Are Still In coalition, and just one month after the City of Portland announced its pledge to obtain 100 percent of its energy needs from renewable sources by 2050—including electricity, transportation, and industry (Geiling 2017a). This suggests that the current implementation challenge is not whether states, and the cities that are nested in them, are motivated to align their policy direction with international goals (as outlined by the Paris Agreement or in the SDGs). Instead, as seen in Portland, the real implementation challenge is how cities can effect meaningful change when challenged by constitutional barriers that override such motivations.

In addition to the U.S. Constitution, there are statutory challenges to implementation. The conflict between the mandate of the U.S. Federal Energy Regulatory Commission (FERC) and the climate goals of subnational governments illustrates the depth of this challenge.

FERC, which is technically a U.S. Department of Energy agency (though it is given discretion to

act independently) received its mandate through the Natural Gas Act of 1938. This legislation charges the Agency with approving interstate infrastructure projects that serve present public convenience or necessity, and with protecting consumers and ensuring fair competition in electricity and gas markets. In practice this mandate gives FERC the jurisdiction to approve and regulate the construction and operation of all liquefied natural gas (LNG) terminals and all interstate natural gas pipelines (Lombardi and Hopkins 2017; Caperton 2013; FERC 2017).

As early as 2013, the EPA began pressuring FERC to evaluate the long-term climate impacts of proposed pipeline projects under the National Environmental Policy Act (NEPA) (Westlake 2016). To date, FERC has maintained that this request is outside of its mandate, raising questions of jurisdictional power between the two agencies. Importantly, when considering the role of subnational governments in implementation, issues of jurisdictional power, like those described above, are increasingly relevant as cities and states make climate commitments that will be impacted by FERC's decisions.

While natural gas is often celebrated as a “clean” fossil fuel that will help us create a bridge towards renewable energy sources, it still significantly contributes to climate change (Zhang et al. 2016). The EPA reports that methane (CH₄) is 25 times more potent than carbon dioxide (CO₂) over a 100-year period (Anderson et al. 2010). In 2014, a group of Cornell geoscientists estimated the amount of methane emitted as a percentage

of the lifetime production of a shale gas well (including venting and leakages at the well site, in addition to those during storage and pipeline delivery) could exceed 7.5 percent (Howard 2014). Considering that many gas pipelines have a lifespan of over 50 years, the infrastructure built today will outlive, and potentially endanger, the commitment of cities and states to cut total greenhouse gas emissions by 80 by 50.

Currently there is no mechanism to overcome the statutory limitations that bind states and cities when a FERC-approved project transects its borders. In one 2017 example, New York denied ancillary permits for pipeline water crossings to two FERC-approved pipeline projects, Constitution and Northern Access, citing the Clean Water Act (Lombardi and Hopkins 2017)—perhaps not surprising coming from a state that banned hydraulic fracturing back in 2015. In June 2017, the denial was dismissed by the U.S. Court of Appeals for the District of Columbia Circuit, stating that FERC can simply override the NY Department of Environmental Conservation denial and proceed (Goldberg 2017). This decision is on the heels of New York Governor Andrew Cuomo's June 1, 2017 Executive Order committing the state to upholding the Paris Agreement, with an interim target of reducing emissions 40 percent by 2030. While the accounting mechanisms of fugitive methane emissions are not yet well-defined under these goals, the basic principle that the state has little legal standing in infrastructure projects that cross its borders remains a potential conflict for implementing subnational agendas.



The real implementation challenge is how cities can effect meaningful change when challenged by constitutional barriers that override such motivations.

THE CHANGING LANDSCAPE OF CLIMATE GOVERNANCE:

The Role of Cities as Political Actors and Policy Implementers

William Burke-White and Laura Barron

This selection is from “Penn: Current Research on Sustainable Urban Development,” the series Penn IUR produced with Perry World House and Kleinman Center for Energy Policy in advance of the World Urban Forum 9, held in Kuala Lumpur, Malaysia in February 2018.

Addressing the impacts of climate change and limiting further impact is the most critical aspect of achieving global environmental sustainability, as laid out in the United Nation’s SDGs and *New Urban Agenda*. The experiences of the past decades, however, have demonstrated that stopping climate change is a challenge not only of effective implementation of mitigation and adaptation techniques, but also of finding the political will to undertake bold moves needed to deal with existing climate change and limit future global warming. Climate change, often described as a problem of the global commons, requires commitment and coordination across most, if not all, nation states. The bold moves needed today require significant political will to drive cooperation where problems are complex, time-horizons are long, interests poorly aligned, and institutions weak.

Traditionally, climate politics has been focused at the international level of governance—through international institutions and international legal agreements among national governments that can work together to coordinate needed global responses (Bodansky 2001). International diplomatic meetings and agreements from Rio to Kyoto, Copenhagen to Paris, have been the locus of action for international political and legal commitments to address climate challenges. These nation states then seek to implement

those agreements through national legislation, regulating individuals, firms, and other sub-state actors (Harrison 2010). While this traditional diplomatic and regulatory approach worked relatively well for some issues, such as the reduction of Chlorofluorocarbon (CFC) emissions through the Montreal Protocol, the political will to act on climate change through international institutions and agreements has proved lackluster and inadequate based on the primary climate goal: to keep warming below 2°C (Cass 2001; The Kyoto Protocol 1997). The ambitious hopes that motivated the 1997 Kyoto Protocol and the 2009 Copenhagen Accord have not been realized.

At the global level the problem is two-fold: gridlocked international institutions and lack of national political will to drive meaningful new commitments. ...

This global gridlock can be exacerbated by a lack of political will at the national level of governance, particularly as some key countries retrench. After all, action in international institutions depends on political pressures from constituent member states. Some countries, notably the United States, have walked back from existing climate commitments, throwing into doubt whether even the existing climate regime, however inadequate, can prove lasting and effective. ...



Photo by Takver, via Wikipedia.

Even in countries that continue to affirm their commitment to Paris, significant political challenges remain for climate policy at the national level. Many individuals as well as political leaders find it difficult to accept climate change as a real and pressing issue due to cultural cognition, skewed risk perceptions, and future discounting (Leiserowitz 2006). Even where climate science is clear, the politicization of scientific uncertainty of climate change outcomes can undermine the development of the political will to act (McCright 2011). Moreover, voters generally make decisions based on short-term interests and direct economic consequences, whereas climate change is usually an over-the-horizon problem with long-term impacts (Harrison 2007). Most of these challenges of political will are difficult to overcome, both at the national and the sub-state levels.

Retrenchment by some states and “gridlock” in key international organizations has created new opportunity for sub-state actors to expand their roles not just in implementing climate change adaptation and mitigation techniques, but also in generating the political will necessary to advance national and international climate efforts. Trump’s withdrawal from the Paris Climate Accord may have catalyzed a nascent reorientation of climate policy away from traditional global diplomatic and international legal approaches toward cooperation, commitment, and implementation at the sub-state level among cities, firms, and NGOs. While action has been building at the sub-state level for some time, the newly re-emphasized limitations of traditional diplomatic approaches to climate policy have shone a new spotlight on sub-state approaches, which may ultimately enhance the effectiveness of the implementation of climate change mitigation policies and provide a new source of political will to drive climate action.

There are good reasons to believe that it may be easier to generate new political will to act on climate at the local or city level, as opposed to at the national or global levels of governance.

Even as climate change leads to more manifest physical impacts, such as increased storms, floods, droughts, and other natural disasters, the impacts of such events often remain isolated, locally or regionally. As a result, most individuals and many political actors perceive those impacts as remote, and not directly relevant to them, limiting their national or global political impact. Notwithstanding intense national and international media coverage around disasters, such events rarely transform national political discourse or generate significant and sustained political commitment in national and global politics. For example, Hurricane Katrina in 2005 did not fundamentally transform U.S. climate policy, despite gaining significant national and international media coverage.

At the local political level, the inverse is often true. When events are closer to home, they are viewed by relevant audiences as more significant and eminent, increasing their political salience. Not only do citizens directly feel the impacts of increased flooding, droughts, intensification of storms, and other environmental events linked to climate change, but local economies suffer, leading to heightened political sensitivity to such issues. Such disasters serve as “focusing events” which can alter political agendas, mobilize constituencies and lead to policy change, particularly within the local polity directly affected by the disaster in question (Birkland 1998). Hurricane Katrina, for example, galvanized political will in New Orleans and the region to change its approach to disaster response and environmental policy. So too, Hurricane Sandy has been described as a “tipping point” for New York City, leading to “transformative adaptation due to the explicit inclusion of increasing climate change risks in the rebuilding effort” (Rosenzweig and Solecki 2014).

As a result of these differential perceptions of local and global impact of climate change, political will to act may be easier to generate locally—in community-, city-, or state-level governance. ...



While action has been building at the sub-state level for some time, the newly re-emphasized limitations of traditional diplomatic approaches to climate policy have shone a new spotlight on sub-state approaches, which may ultimately enhance the effectiveness of the implementation of climate change mitigation policies and provide a new source of political will to drive climate action.

HOUSING INEQUALITY AND THE NEW URBAN AGENDA

Marja Hoek-Smit, Kim Kyung-Hwan, and Susan Wachter

This selection is from “Penn: Current Research on Sustainable Urban Development,” the series Penn IUR produced with Perry World House and Kleinman Center for Energy Policy in advance of the World Urban Forum 9, held in Kuala Lumpur, Malaysia in February 2018.

The main purpose of this paper is to fill the gap in the *New Urban Agenda (NUA)* with regards to the guiding principles, implementation strategies, and monitoring of the goal of adequate and affordable housing for all. Given the crucial importance of housing in achieving inclusive, safe, resilient, and sustainable cities, efforts should be made to elaborate what needs to be done to achieve this goal, by whom, and with what resources.

As for the “what needs to be done,” while we agree that housing should be placed in the context of urban land use and infrastructure planning, we need to look at the way housing is financed and focus on the expansion of sustainable financing mechanism for both housing and urban infrastructure to secure the needed investment in housing with adequate infrastructure. The key is to fix the supply side of the housing market to make housing more affordable and to strengthen housing finance and rationalize housing subsidy programs to facilitate households to purchase or rent adequate housing with urban infrastructure and services. Implementation of policies regarding finance and subsidies require collaboration and coordination with the ministry of finance and the central bank. This is necessary because a well-functioning mortgage market requires sound macroeconomic policies to determine interest rates and the depth of capital markets.

As for the division of responsibilities, we emphasize the need for a clear and complementary assignment of roles for national and subnational governments as well as for the private sector and civic society. This is based on the assessment of the reasons the well-intended and logical framework of the “enabling markets to work” strategy advocated by the Habitat Agenda of 1996 did not deliver the expected outcomes. The enabling approach remains valid; well-functioning markets can reduce the needs

of subsidies and allow the government to devote scarce resources to assisting those who really need help. But the enabling approach should not be misinterpreted as a pulling-back of government from the housing sector and leaving housing issues to be resolved by markets. Each country should take a practical approach to the division of responsibilities and consider the constraints that each faces such as nascent institutions of ownership rights and property registration, inadequate urban planning laws and policies, small financial sector and structural weaknesses in the housing finance system. The right division of responsibilities between national and local (or subnational) government and the alignment of their objectives and incentives is crucial, as the subsidiarity principle emphasizes. This is because much of the implementation of government policies falls on local governments, and local government is also responsible for land use regulations and building permits for residential housing as well as nonresidential real estate.

As for the means of government intervention, both national and local government must find ways to take advantage of land value capture and other land management mechanisms to finance housing and infrastructure developments. We also recommend the reform of housing subsidy policies and programs in many countries to consider the needs of all income groups that deserve government assistance.

Finally, we note that effective implementation of the NUA requires systematic data collection, analysis of data, and practical indicators as well as the capacity for measuring and monitoring progress. The estimates of key parameters such as demand and supply elasticities are outdated if available, or nonexistent. Housing indicators which had been carefully designed and field-tested for HA were not utilized. Efforts should be made to install a workable system at local, national and global levels.

MAYOR: THE BEST JOB IN POLITICS

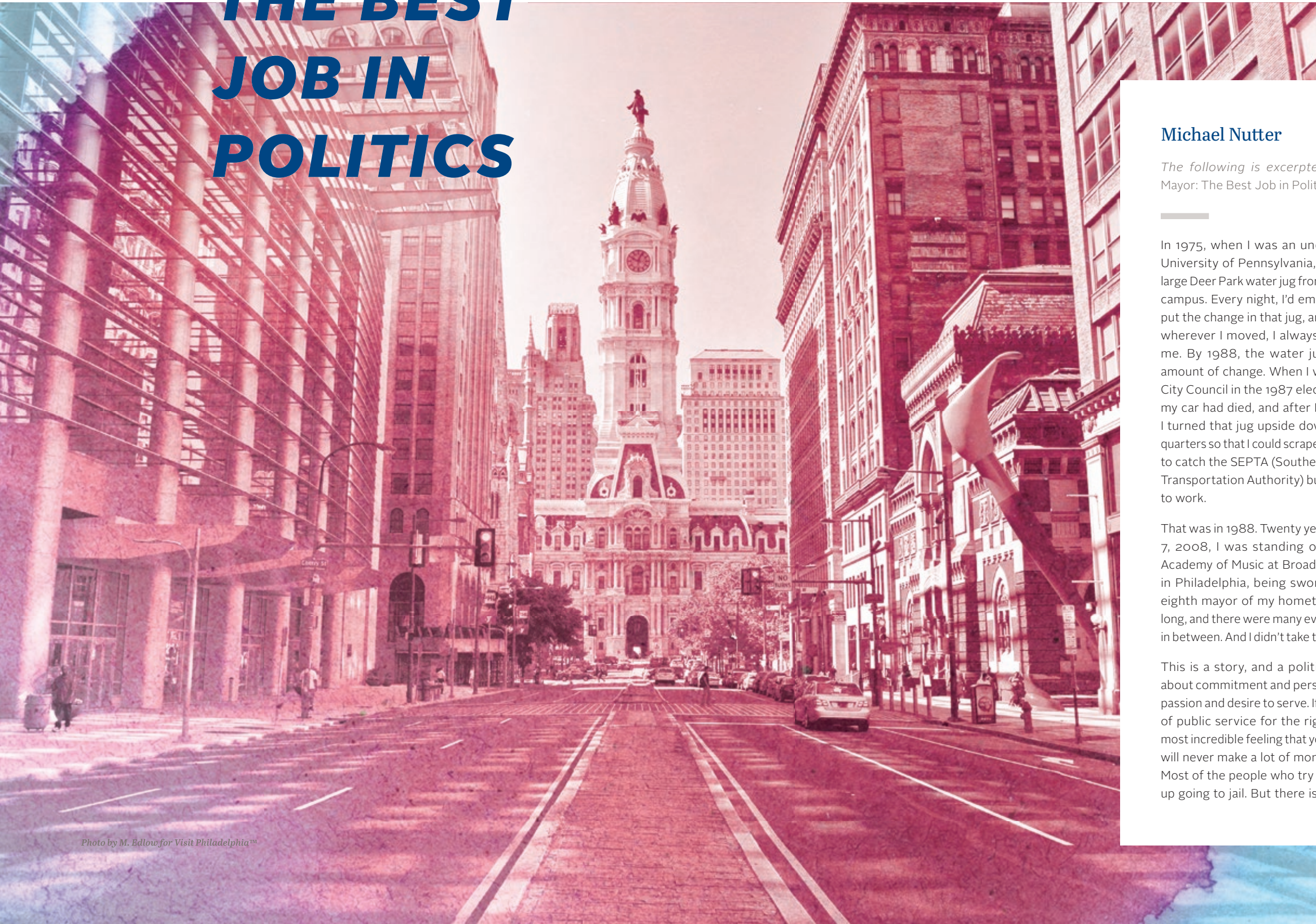


Photo by M. Edlow for Visit Philadelphia™

Michael Nutter

The following is excerpted with permission of The University of Pennsylvania Press from Mayor: The Best Job in Politics (University of Pennsylvania Press, 2017).

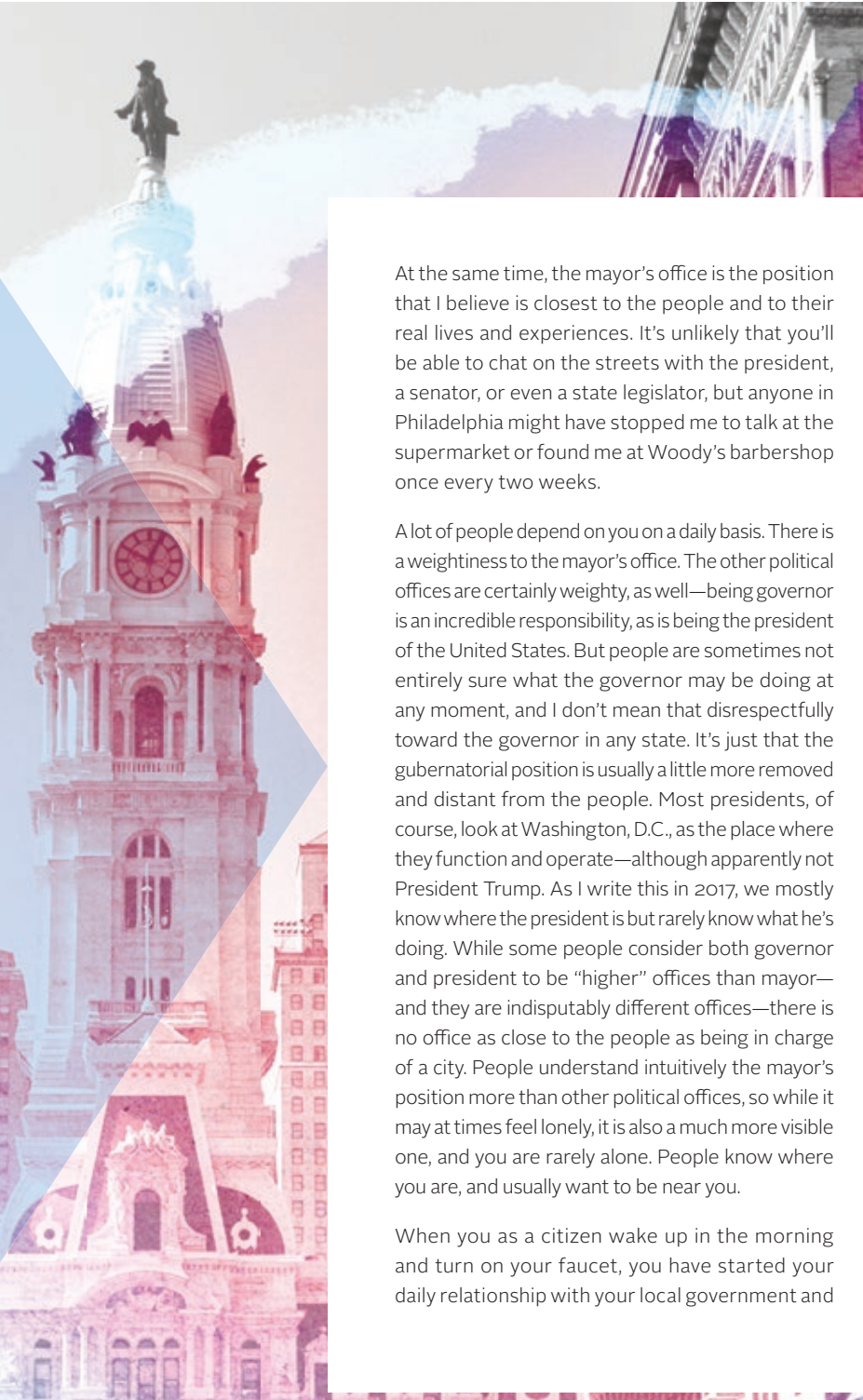
In 1975, when I was an undergraduate at the University of Pennsylvania, I commandeered a large Deer Park water jug from somewhere on the campus. Every night, I'd empty my pockets and put the change in that jug, and after I graduated, wherever I moved, I always took that jug with me. By 1988, the water jug contained a fair amount of change. When I was first running for City Council in the 1987 election in Philadelphia, my car had died, and after I'd lost the election, I turned that jug upside down every day to get quarters so that I could scrape together the money to catch the SEPTA (Southeastern Pennsylvania Transportation Authority) bus and elevated train to work.

That was in 1988. Twenty years later, on January 7, 2008, I was standing on the stage at the Academy of Music at Broad and Locust Streets in Philadelphia, being sworn in as the ninety-eighth mayor of my hometown. The road was long, and there were many events and happenings in between. And I didn't take the journey by myself.

This is a story, and a political autobiography, about commitment and perseverance, about the passion and desire to serve. If you enter the world of public service for the right reasons, it's the most incredible feeling that you will ever have. You will never make a lot of money in public service. Most of the people who try to make money end up going to jail. But there is something entirely

unique about the opportunity, every day, to make somebody else's life better. It's a feeling that you can perhaps get in some other professions, but I know that it happens in this one. I would contend that being the mayor is the best job in politics, and possibly the best job in America. ...

Mayoring involves many paradoxes. Being mayor is a lonely business, and leadership of a city can be a very lonely place. At the end of the day, you're the ultimate decision maker, at least within your realm. To be sure, there are external factors and influences in city government: there are other nearby local governments, and state and federal governments with which you have to build relationships and interact. Cities generally are a political subdivision of their respective states. There can be a lot of tension between and among cities and their respective states, and between states and the federal government, depending on the policies and programs that are being proposed at any given time. But, for the most part, cities are allowed to operate autonomously. Many have home rule, and as mayor you are pretty much out there on your own. As mayor, just about all the bucks do actually stop at your desk. That doesn't necessarily mean, unfortunately, that the actual, financial bucks stop at your desk—but the problems, issues, and challenges all end up there. And, quite honestly, whether or not you have any control over the problems or issues in question, you're the mayor, so it all becomes your responsibility on some level.



At the same time, the mayor's office is the position that I believe is closest to the people and to their real lives and experiences. It's unlikely that you'll be able to chat on the streets with the president, a senator, or even a state legislator, but anyone in Philadelphia might have stopped me to talk at the supermarket or found me at Woody's barbershop once every two weeks.

A lot of people depend on you on a daily basis. There is a weightiness to the mayor's office. The other political offices are certainly weighty, as well—being governor is an incredible responsibility, as is being the president of the United States. But people are sometimes not entirely sure what the governor may be doing at any moment, and I don't mean that disrespectfully toward the governor in any state. It's just that the gubernatorial position is usually a little more removed and distant from the people. Most presidents, of course, look at Washington, D.C., as the place where they function and operate—although apparently not President Trump. As I write this in 2017, we mostly know where the president is but rarely know what he's doing. While some people consider both governor and president to be “higher” offices than mayor—and they are indisputably different offices—there is no office as close to the people as being in charge of a city. People understand intuitively the mayor's position more than other political offices, so while it may at times feel lonely, it is also a much more visible one, and you are rarely alone. People know where you are, and usually want to be near you.

When you as a citizen wake up in the morning and turn on your faucet, you have started your daily relationship with your local government and

the mayor. You have an expectation that water—and potable, clean water—will come out of that faucet. When you step outside, you expect that the streetlights and traffic signals will work. Your roads on your drive to work in the morning will be decently paved. When you put your trashcan out on your trash day, you expect that it will magically be emptied by the time you come home. When you call 911, you expect a trained, respectful operator will help you, and then a first responder will appear. When you take your children to a recreation center, there will be equipment such as basketballs and soccer nets, and in good condition. That is all city government. And that is the work of mayoring—an ongoing exchange between larger government policies, including the budgets that fund them, and a daily engagement with and in the lives of citizens.

As mayor, you can accomplish tangible things. I don't know the party affiliations of many other mayors in my acquaintance, because the problems and issues that we share are all the same and are often very remote from party dicta or ideologies. When he was mayor of New York, Fiorello LaGuardia famously said that “there is no Democratic or Republican way of cleaning the streets.” Being mayor is where politics hits the road—literally. You remove snow, pick up trash, deal with climate events, and repair potholes. It's where the action is. But you can also apply your core values, principles, and vision to make a measurable improvement in your city and many communities.

During my eight years in office I learned another paradox in the work of mayoring. The buck stops with you, and it's a singular experience in that

regard, yet it's a collective experience that you absolutely must do with a team of leaders and that absolutely involves communication across many different constituencies, neighborhoods, and audiences. When I look back on my mayoring years and at video clips from press conferences, I notice one striking thing: I am almost never, ever standing alone. I believe in “team.”

Being mayor is one elected position, but it's not a singular operation. It may be a lonely experience, but you have to do it in concert with a host of other people to communicate a message that will resound across the city, region, and state.

One of the constant themes in the chapters that follow is the relationship between the concepts of leadership, communication, and community. Leadership is about bringing people together in shared values for various common goals. It's about expanding the tent. You can only conduct the business of mayoring well if you communicate, support transparency, and create as big a tent for your constituents and goals as you can.

Public service is a trust, a gift, and it is an honor to serve, whether you are elected or selected. And, if you ask me, being mayor is the best job in America.



Being mayor is where politics hits the road—literally. You remove snow, pick up trash, deal with climate events, and repair potholes. It's where the action is. But you can also apply your core values, principles, and vision to make a measurable improvement in your city and many communities.

SMARTER GROWTH ACTIVISM AND ENVIRONMENTAL POLICY IN METROPOLITAN WASHINGTON

John H. Spiers

The following is excerpted with permission of The University of Pennsylvania Press from Smarter Growth Activism and Environmental Policy in Metropolitan Washington (University of Pennsylvania Press, 2018).

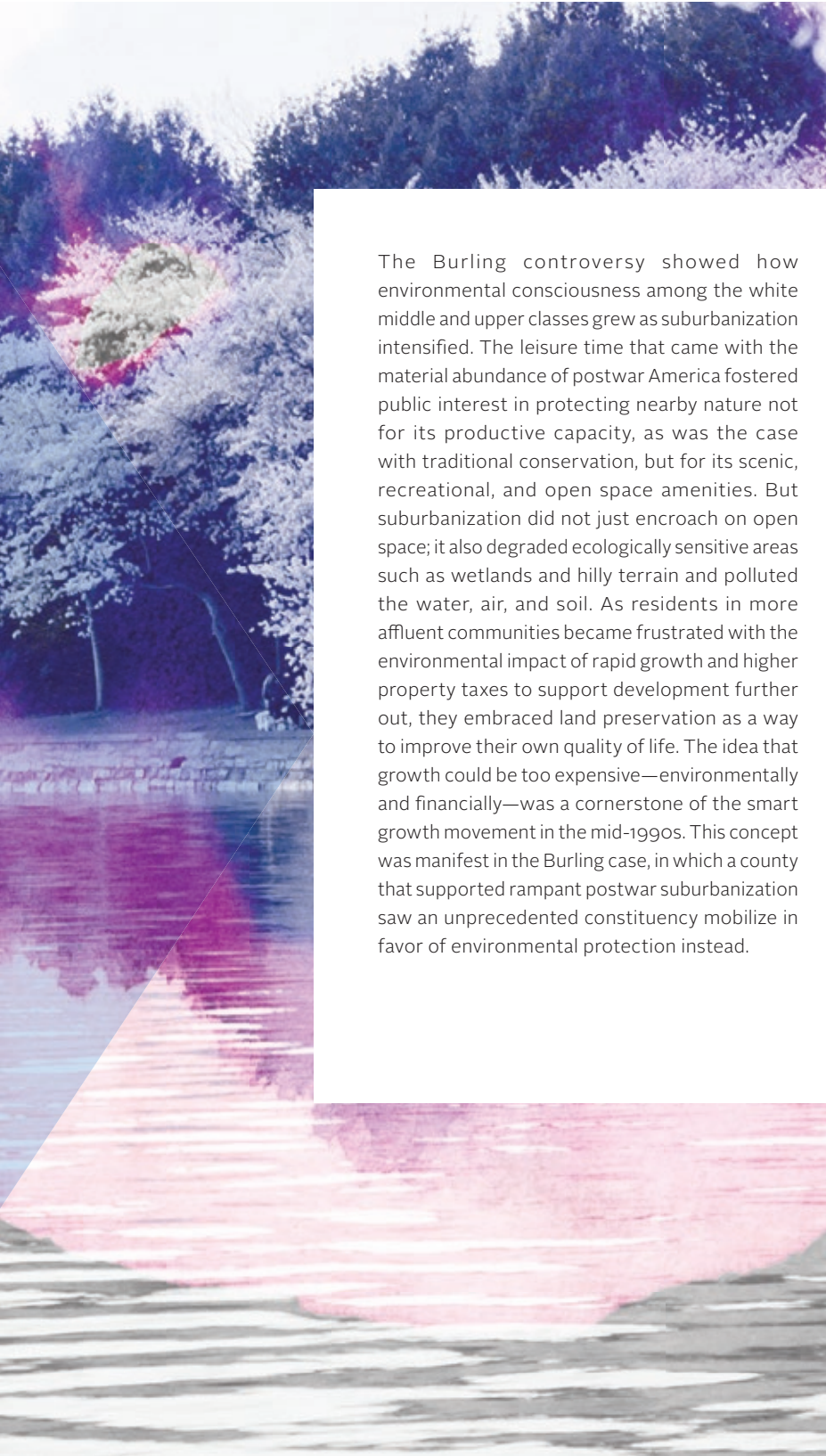
In the spring of 1970, a national television crew traveled to Fairfax County to record the public's involvement in a dramatic environmental movement. Just a month earlier, millions of Americans had participated in the first Earth Day, raising awareness and learning about environmental issues locally and globally. Earth Day was a headline event in a banner year for modern environmentalism, but so too was the news story the television crew covered.

The event in question was a public hearing on a proposal to preserve a forested landscape along the Potomac from being converted into a luxury housing project. More than two hundred people attended and more than fifty testified, including a number of teenagers. The highlight of the meeting was a stirring rendition of a folk song written by high school student Susan Daniel. Modeled after Woody Guthrie's iconic "This Land Is Your Land," Daniel's song offered a reflective, youth-centered perspective on the environmental impact of postwar suburbanization as she called for preserving the hills, plants, wildlife, and Potomac waterfront that the Burling tract offered.

The year 1970 is often remembered for national events like Earth Day and the creation of the EPA. Indeed, the decade more broadly represented a golden era of environmental policy making reinforced by the rise of national environmental organizations as a potent force in American

politics. Even as environmental politics was scaling up, the Burling case testified to the enduring importance of grassroots activism. Indeed, local environmentalists in Fairfax defined the contours of "smart growth" two decades before the term came into official use.

After a quarter century of rampant suburbanization, residents, officials, and organized interests in Fairfax spent 1970 debating whether the Burling tract should be developed for upscale housing or protected as a park and nature preserve. A year earlier, a local development firm acquired the 336-acre parcel in the mostly white and affluent community of McLean. The firm proposed unusually significant measures to control runoff into the nearby Potomac associated with developing the site's steep slopes and to preserve half the land as open space. A small group of nearby homeowners, however, had strong misgivings about the potential loss of one of the few wild, forested landscapes left in the county. As they organized for a battle in their backyard, they were joined by hundreds of high school and college students who wanted a nature preserve in the midst of suburbia. A new generation of local elected officials committed to reining in runaway growth joined an intense community struggle to convince the Burling tract's developer to preserve the landscape for future generations.



The Burling controversy showed how environmental consciousness among the white middle and upper classes grew as suburbanization intensified. The leisure time that came with the material abundance of postwar America fostered public interest in protecting nearby nature not for its productive capacity, as was the case with traditional conservation, but for its scenic, recreational, and open space amenities. But suburbanization did not just encroach on open space; it also degraded ecologically sensitive areas such as wetlands and hilly terrain and polluted the water, air, and soil. As residents in more affluent communities became frustrated with the environmental impact of rapid growth and higher property taxes to support development further out, they embraced land preservation as a way to improve their own quality of life. The idea that growth could be too expensive—environmentally and financially—was a cornerstone of the smart growth movement in the mid-1990s. This concept was manifest in the Burling case, in which a county that supported rampant postwar suburbanization saw an unprecedented constituency mobilize in favor of environmental protection instead.

While the Burling case represented a certain triumph of an early smart growth movement, it also highlighted the biases among the mostly white, middle-class environmentalists in suburbia. Postwar housing policies and practices had not only created exclusive communities but also differentiated access to opportunities that improved people's lives, including good schools, public services, well-paying jobs, transportation, and low incidence of crime. Even as historically marginalized peoples gained political influence during the 1960s, social segregation reinforced the voices of affluent whites over other groups. At the time of the Burling case, conversations about inclusive housing had shifted from racial discrimination, which had been outlawed with passage of the Fair Housing Act of 1968, to affordability. In affluent, white-dominated communities, however, many residents downplayed the need for affordable housing to focus on protecting environmental resources for their own enjoyment, even in cases where land preservation could be expensive. Thus, environmental activists did not challenge the systems underlying community formation, which benefited them, but instead sought to block specific projects that impaired their access to natural amenities.



In affluent, white-dominated communities, however, many residents downplayed the need for affordable housing to focus on protecting environmental resources for their own enjoyment, even in cases where land preservation could be expensive.

MONUMENT LAB:

*Memorializing Philadelphia
as a Place of Crisis and
Boundless Hope*

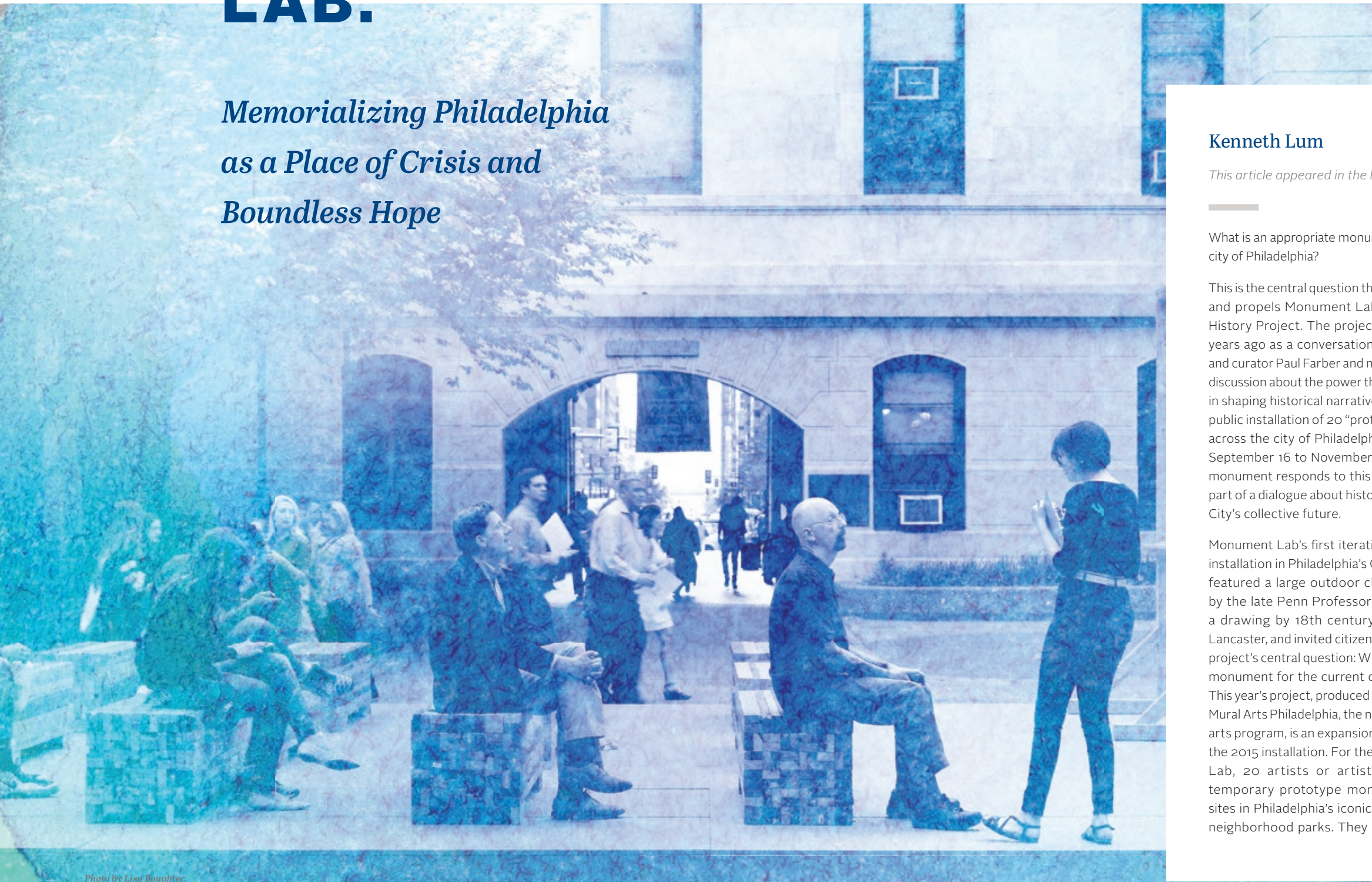


Photo by Lisa Boughter.

Kenneth Lum

This article appeared in the November 2017 issue of Urban Link, Penn IUR's e-newsletter.

What is an appropriate monument for the current city of Philadelphia?

This is the central question that both underscores and propels Monument Lab: A Public Art and History Project. The project, which began five years ago as a conversation between historian and curator Paul Farber and me, has grown from a discussion about the power that monuments have in shaping historical narratives into a large-scale public installation of 20 "prototype monuments" across the city of Philadelphia. On display from September 16 to November 19, each prototype monument responds to this central question as part of a dialogue about history, memory, and the City's collective future.

Monument Lab's first iteration, in 2015, was an installation in Philadelphia's City Hall square that featured a large outdoor classroom designed by the late Penn Professor Terry Adkins after a drawing by 18th century educator Joseph Lancaster, and invited citizens to reflect upon the project's central question: What is an appropriate monument for the current city of Philadelphia? This year's project, produced in collaboration with Mural Arts Philadelphia, the nation's largest public arts program, is an expansion and elaboration on the 2015 installation. For the current Monument Lab, 20 artists or artist teams produced temporary prototype monuments across 10 sites in Philadelphia's iconic public squares and neighborhood parks. They present these site-

specific, socially-engaged artworks together with research labs that collect creative monument proposals from Philadelphians and visitors.

At the research labs that accompany each prototype, researchers ask members of the public to propose an appropriate monument for Philadelphia today. At the time of this writing, with the exhibition not quite a third of the way through, we have received well over 2,000 proposals from respondents ranging in age from 3 to 91. We will meld the proposals into a dataset of public input and present it in a final report to the city. During the exhibition, a constantly updated dataset of the public input is on view at the Morris Gallery at the Pennsylvania Academy of the Fine Arts.

Paul and I began this project hoping to understand better the mechanisms of memorialization, particularly by questioning the status of the monument and how we might challenge a monument's canonical character. We were also interested in unacknowledged histories that now have become evacuated from the monument landscape yet remain palpable in their absence. Philadelphia's extant memorial landscape is identified with the statues of the dominant citizen class and by the nearly total absence of officially sanctioned statuary of historical African-Americans and women. After all, Philadelphia unveiled the first memorial to an African American on public ground in September of 2017, a statue of the great nineteenth-century civil rights advocate and educator, Octavius Catto.

African Americans make up over 40 percent of the citywide population and the story of African American struggles and contributions are central to any appreciation of Philadelphia's history and distinction. Artist and University of Pennsylvania Professor Sharon Hayes' contribution to Monument Lab, titled *If They Should Ask*, takes the form of a collection of empty plinths inscribed with the names of important Philadelphian women deserving of a statue. Presently, there are only two full figure historical women figures represented within the inventory of Philadelphia statuary, Joan of Arc and Mary Dyer, a colonial-era advocate for First Amendment rights, both important and tragic figures but neither with any affiliation with Philadelphia.

Given this vacuum, we aimed to create an exhibition that would embody democracy through the participation of a wide and varied audience, engaged in public dialogue. We wanted to listen to all Philadelphians from throughout their city and give voice to those citizens who too often go unheard.

With this in mind, we erected and programmed Monument Lab stations in several sites beyond Center City, including Norris Square, Malcolm X Park, Marconi Plaza, Fairhill, Penn Treaty Park, the intersection of Belmont and Parkside in West Philadelphia, and Vernon Park. Karyn Olivier, an artist whose remarkable prototype sculpture entitled "The Battle is Joined" is sited in Germantown's Vernon Park, has noted the local residents' surprise and delight that an important art project would be installed in their neighborhood, which is largely devoid of public art.

In Fairhill, at the intersection of Indiana Avenue and A Street, Tyree Guyton, an artist from Detroit and progenitor of The Heidelberg Project, produced a work titled "The Times." He imbued the piece with a political protest against poverty and the abandonment of the civic body, the social spaces comprising the civic realm. "The Times" is a work of community participation that features community-painted images of giant clocks affixed to the facade of a block-long empty and bricked warehouse. Each of the clocks denotes a different time but together they exist synchronically. Guyton has stated of this work:

Plato said, 'Time is the moving image of reality.' What this means to me is that everything we do revolves around time and yet the only time that we ever really have is the very moment we are in. My challenge with this project [The Times] is to help people to appreciate the present time as a time to act, think, be and do, here and now. Yesterday lives only in our minds, and tomorrow is not promised. I believe that we must make the most of time, and the time to do that is now.

To visit Guyton's work is to commit to visiting a distressed neighborhood beset by poverty and its associated problems. But it is also a neighborhood of Philadelphians whose voices need to be heard.

To take in Monument Lab is to traverse and be present physically across every precinct of Philadelphia. We wanted Monument Lab to prompt the public to identify with Baudelaire's figure of the flaneur in *The Painter of Modern Life* (1863). We want Philadelphians to "rush into the crowd in search of a man unknown to

him" and to throw "away the value and the privileges afforded by circumstance." We wanted Philadelphians to visit places within their own city that they had never before visited, if only to experience anew their city through the lives of others.

The message of Monument Lab is that the city is a place of limitless possibility, and that in reflecting on this city, we can begin to understand the power of being a human among other humans. The city is itself a living monument to humanity, with all its potential and all its challenges. Monument Lab aims to unearth potential solutions to a better collective future for Philadelphia, but such solutions can only come about if we recognize that our departure point must be from the view that the city is a place of many voices, which deserve to be heard.



We aimed to create an exhibition that would embody democracy through the participation of a wide and varied audience, engaged in public dialogue. We wanted to listen to all Philadelphians from throughout their city and give voice to those citizens who too often go unheard.

GAP ASSESSMENT ON APEC ENERGY EFFICIENCY

*and Conservation Work
Towards Fulfilling the
Leaders' Energy Intensity
Reduction Goal*

This is an excerpt from the report Penn IUR produced for APEC's EWG in December 2017. The full report can be found in the "Publications" section of our website: pennur.upenn.edu/publications

This report, "Gap Assessment on APEC Energy Efficiency and Conservation Work Towards Fulfilling the Leaders' Energy Intensity Reduction Goal," was funded by the Asia Pacific Economic Cooperation (APEC) Support Fund on Energy Efficiency through the Energy Working Group (EWG). It presents an assessment of gaps in energy efficiency and conservation work by the Energy Working Group, particularly the Expert Group on Energy Efficiency and Conservation (EGEE&C), to ensure continued progress toward the Leaders' energy intensity reduction goal. The report's outcomes are designed to help the EWG and EGEE&C develop project priorities in areas most relevant to the needs facing the APEC region, and ultimately provide guidance to APEC economies on beneficial energy efficiency efforts. ...

To assess gaps in the energy efficiency and conservation project portfolio, this research was conducted in three phases: 1) energy efficiency project data gathering and project assessment 2) sector and economy situational analysis and 3) strategic pathway and tactical gap identification. The first phase of the assessment was a critical review of the energy efficiency projects sponsored between 1993 and 2016 by the EWG and its sub-fora, as well as relevant energy efficiency work sponsored by other fora, such as the Transportation Working Group. ...

This analysis reviews 188 projects dating from 1993 to those funded in Session 2 of 2016. The project database created for this project

analysis expands on the Australian team project classification system for funded projects, to include other aspects of the deployment process, such as the target audience, and deployment channel because many of the earlier projects were lacking details that was captured for later projects. Missing information included the proposing economy as well as funding data. The data is publicly available from the APEC Project Database and APEC Publications pages. ...

Project analysis sought to understand critical technologies or practices that have been omitted, untapped audiences, direct or indirect channels of deployment such as partnerships or media that have not been well utilized, missing steps or elements of knowledge transfer or capacity building strategies, and other elements that may arise out of the analysis.

To expand the evaluation phase a survey questionnaire was created targeting members of the EWG, especially EGEE&C participants, as well as other players from public and private sectors in APEC economies. The survey, based on the project categories, asked participants to rank the importance and impact of projects within their economies. This information was used in the third phase of the project to analyze the impact of project gaps on energy efficiency goals within APEC.

The second phase was an examination of sector and economy-level drivers, trends and emerging issues. The analysis focused on building a picture

of macro-economic, sectoral and technological drivers in three demand sectors—building, transportation, and industry. Current energy trends, statistics and publications from multi-lateral organizations such as the International Energy Agency and United Nations, in addition to APERC research products, were reviewed.

Macro-economic drivers include population growth, national income and gross domestic product, urbanization trends, financial markets, global energy supplies, energy subsidies and multi-lateral agreements. Sector drivers can include global, regional, and economy-specific policy and regulatory environments, the composition of sub-sectors, or local conditions such as available resources and technical capacity. Other economy-specific factors include geography, climate, energy supply mix, or utility infrastructure. Technology drivers range from investment costs, availability of existing best available technologies and emerging innovations. All of these factors often work together, making feedback loops, creating barriers and forming new opportunities. Together, they create a contextual picture of the opportunities and barriers for energy efficiency investments in the APEC region.

The regulatory and policy environments of each economy were also reviewed to identify major economy-specific drivers. APERC research products since 2009 include a number of economy-focused policy and regulatory reviews,

including the Peer Reviews of Energy Efficiency (PREE) reports. Developing a comparative or cross-walk review of all 21 APEC economies was outside the scope of this report so the APERC research was used to supplement an existing set of indicators from RISE (Regulatory Indicators for Sustainable Energy), a database developed by the World Bank Group with the input of public officials from 111 economies. These indicators added an additional level of insight into the status of energy efficiency policy within each APEC economy. ...

In phase three, project (i.e. tactical) gaps were identified, and then evaluated against APEC missions and goals, the EWG Strategic Plan, the priorities of the EGEE&C and APEC energy intensity reduction scenario modeling results. This allowed researchers to determine if, or how well, project gaps addressed established organizational goals, which strategic level gaps applied across the project portfolio and widely across APEC economies, and which gaps remained at the tactical level.



The report's outcomes are designed to help the EWG and EGEE&C develop project priorities in areas most relevant to the needs facing the APEC region, and ultimately provide guidance to APEC economies on beneficial energy efficiency efforts.

EXPERT & FACULTY CONVENINGS

Penn IUR's expert events bring together scholars, policymakers, and decision-makers to exchange and advance ideas and research. In 2017–2018, Penn IUR cosponsored two convenings on housing policy in the United States and also hosted participants in the final year of a three-year exchange program between the United States and Japan designed to engage citizens in community rebuilding after disasters.



U.S. HOUSING POLICY: THE FUTURE OF WHAT WORKS

The September 14–15, 2017 symposium, “U.S. Housing Policy: The Future of What Works,” convened by Penn IUR Faculty Fellows John Landis and Vincent Reina with support from Penn IUR, *Housing Policy Debate*, and the Fels Policy Institute at Penn, brought together some of the most forward-thinking scholars from across the country to discuss the future of housing policy in the United States. The symposium’s breakout sessions covered topics including affordable rental housing, homelessness and fair housing, homeownership, neighborhood change, and different kinds of preservation.

At the Symposium, housing experts offered their policy suggestions and perspectives on the changing environment for housing policy. For example, Lance Freeman, Professor, Urban Planning Program, Columbia University, reflected on the need to balance

investment in neighborhoods with concerns about potential displacement; Carol Galante, I. Donald Turner Distinguished Professor in Affordable Housing and Urban Policy and Faculty Director, Turner Center for Housing Innovation, University of California–Berkeley, emphasized the need to think creatively about development challenges and opportunities; Margery Austin Turner, Senior Vice President, Program Planning and Management, Urban Institute, made the case for bold approaches to housing policy; and Xavier De Souza Briggs, Vice President, Inclusive Economies and Markets, Ford Foundation, voiced his position on the need to develop coalitions that provide a base for meaningful housing policy and change.

The conference proceedings will be featured in a forthcoming special issue of *Housing Policy Debate*.

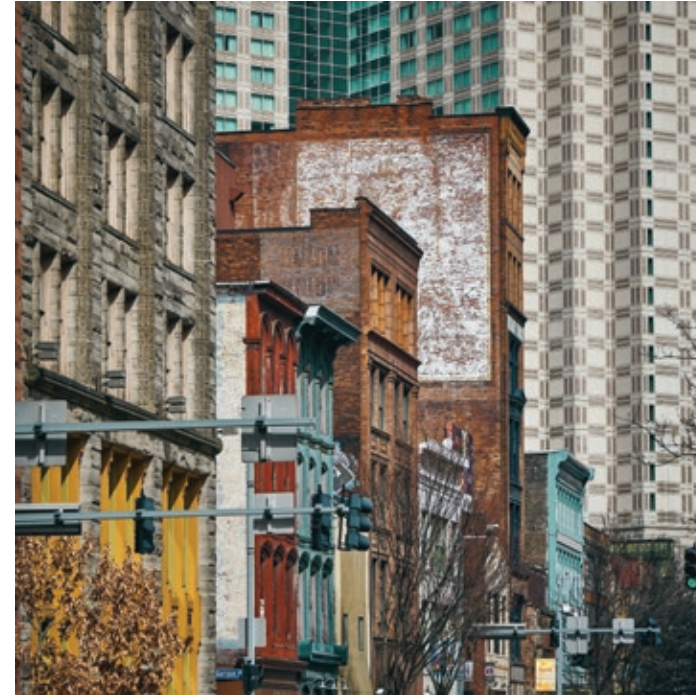
PERSPECTIVES ON FAIR HOUSING

Penn IUR hosted the April 11, 2018 conference entitled “Perspectives on Fair Housing,” which gathered a consortium of scholars and housing experts across the public and private sectors to examine the impact of the Fair Housing Act (FHA) of 1968, one of the nation’s most significant pieces of housing policy, which has provided the foundation for programs, laws, and regulations that have fundamentally affected communities across the country.

The day was organized as a series of conversational sessions, in which participants reckoned with the historical roots of the Act, its past successes and failures, current status, and future opportunities. Each session was framed by “conversation starters” and punctuated by “breakout discussions,” in which small groups of attendees discussed and debated focused questions before convening as a whole. The format proved effective in promoting interdisciplinary discourse across social, political, and institutional boundaries, as the event’s diverse participants were visibly energized with a call for action and collaboration to enhance and advance the ideals of fair housing today and in the future. During the event, Elizabeth Julian was given the 2018 Penn Institute for Urban Leadership Award. For more on Julian and the ULA, see page 72.

The symposium was hosted by three faculty members at the University of Pennsylvania: Wendell Pritchett, Provost and Presidential Professor of Law and Education; Vincent Reina, Assistant Professor of City Planning; and Susan Wachter, Sussman Professor and Professor of Real Estate and Finance.

Scholars, researchers, and practitioners in economics, law, public policy, sociology, and urban planning from the following places were at the event: Columbia University; Fordham University; Georgetown University; Massachusetts Institute of Technology; New York University; Rutgers University; Texas A&M University; University of California–Los Angeles; University of the District of Columbia; University of Illinois, Urbana–Champaign; University of Pennsylvania; Yale University; the Federal Reserve Bank of Atlanta; the Federal Reserve Bank of Philadelphia; the Urban Institute; the Federal Home Loan Bank of San Francisco; The Reinvestment Fund; BlackRock; National Urban League; Poverty and Race Research Center; National Fair Housing Alliance; National Association of Affordable Housing Lenders; the Inclusive Communities Project; the Integral Group; The Catalyst Group LLC; Fair Share Housing; Dane, and Colfax LLC; the City of New York; the City of Los Angeles; and the City of Philadelphia.



RIGHT: Experts convene at the *Perspectives on Fair Housing* symposium.



The Fair Housing Act has provided the foundation for programs, laws, and regulations that have fundamentally affected communities across the country.



CLOCKWISE FROM LEFT: 1995 Kobe earthquake by Masahiko Ohkubo via Flickr; New Orleans after Hurricane Katrina by Information New Orleans, via Flickr; 2011 Tohoku Tsunami and Earthquake in Japan by Josu O, via Flickr; Year three exchange site visit in Jersey City, NJ.

BELOW: Hurricane Ike devastation in Galveston by U.S. Army Corps of Engineers, via Flickr.

UNITED STATES–JAPAN GRASSROOTS EXCHANGE PROGRAM: CITIZEN PARTICIPATION IN COMMUNITY BUILDING POST-DISASTER

Penn IUR and the East–West Center (EWC) completed the final year of a three-year exchange program designed to build next-generation leadership capacity and networks that engage citizens in community rebuilding after a disaster. The program—which in its first two years featured travel exchanges between Japan and the United States—concluded in December 2017 with a four-day exchange program hosted by Penn IUR and the East–West Center entitled “U.S.–Japan Grassroots Exchange: Citizen Participation in Community Building Post-Disaster,” funded by the Japan Foundation.

The December 2017 exchange focused on collaborative relationships among civil society, government, and businesses in disaster recovery on the American East Coast and compared them with the U.S. and Japanese delegates’ personal experiences with rebuilding after disaster. The participants visited Jersey City, where they learned how

the City was impacted by Hurricane Sandy in 2012 and what steps civic leaders took to facilitate recovery and build community resilience. Experts on disaster recovery and community-based leadership joined for a day-long symposium during the exchange; they included Daniel Aldrich, Professor of Political Science and Public Policy and Director, Security and Resilience Studies Program, Department of Political Science, Northeastern University; Cathy McCann, Former Chairperson, New Jersey Voluntary Organizations Active in Disaster Recovery (NJVOAD); Robert Lane, Senior Fellow for Community Design and Development, Regional Plan Association; and Etsuko Yasui, Associate Professor, Department of Applied Disaster and Emergency Management Studies, Brandon University.


The exchange had 24 participants from Miyako City, Iwate Prefecture (hit by the Eastern Japan Earthquake and Tsunami in

2011); Kobe, Hyogo Prefecture (impacted by the Great Hanshin Earthquake in 1995); Galveston, Texas (hit by Hurricane Ike in 2008); and New Orleans, Louisiana (devastated by Hurricane Katrina in 2005). In 2015, delegates from Kobe and Miyako City hosted delegates from New Orleans and Galveston; in 2016, Japanese delegates traveled to New Orleans and Galveston where they learned about the importance of preparedness and resilience in coastal areas in the United States, how demographic disparities have affected disaster response and recovery, and how culture influences the recovery process.

»» PENN IUR’S REPORTS FROM ALL THREE YEARS OF THE PROGRAM CAN BE FOUND IN THE “PUBLICATIONS” SECTION OF THE PENN IUR WEBSITE: penniuur.upenn.edu/publications



PUBLIC PROGRAMS



Penn IUR brought together scholars, practitioners, faculty, students, and the general public for a diverse array of lectures, seminars, and panel discussions throughout the year. These programs highlighted key topics in urban research and best practices of relevance to Philadelphia, the nation, and the global community.



PENN IUR 14TH ANNUAL URBAN LEADERSHIP AWARDS

On April 11, 2018, Penn IUR held its 14th annual Urban Leadership Forum, “Fair Housing, Fair Cities,” presenting the Urban Leadership Award to Elizabeth Julian, Founder and Senior Counsel of the Dallas-based Inclusive Communities Project. The Annual Penn IUR Urban Leadership Award recognizes exemplary thinkers who have demonstrated the vision to revitalize urban centers, respond to urban crises, and champion urban sustainability in the United States and around the globe.

In 2015, Julian’s organization won a Supreme Court case ruling that policies that cause segregation (“disparate impact”)—even inadvertently—are illegal under the Fair Housing Act (FHA). This landmark ruling is helping to fully realize the original goals of the FHA to not only prevent individual housing discrimination but also address the decades of systemic discrimination that has led to segregated communities across the country. Prior to her work with Inclusive Communities, Julian served as Assistant Secretary for Fair Housing and Equal Opportunity at the U.S. Department of Housing and Urban Development (HUD) during the Clinton administration and has practiced poverty and civil rights law since the beginning of her career.

“What’s happening right now doesn’t just look like bureaucratic malaise... It really does look like an intentional reversal of commitment to civil rights across the federal spectrum.”

—BETSY JULIAN IN MOTHER JONES

PENN IUR PUBLIC INTEREST SERIES

Penn IUR hosted 19 programs throughout the year, bringing together scholars, practitioners, faculty, students, and the public around a diversity of topics ranging from building urban resilience in the face of rising sea levels to answering the call for public service.



September 7, 2017

Penn IUR Cosponsored Event

Urban Urgency: How Today’s Actions will Determine Tomorrow’s Collective Prosperity

SPEAKERS:

Aisa Kirabo Kacyira, Deputy Executive Director of UN-Habitat and UN Assistant Secretary-General

Anne Fadullon, Director of Planning and Development, City of Philadelphia

William Burke-White, Director, Perry World House and Richard Perry Professor and Professor of Law, Penn Law

HOST:

Perry World House

COSPONSORS:

Department of Africana Studies and the Africana Center



September 12, 2017

Penn IUR Urban Book Talk

Domenic Vitiello: *Immigration and Metropolitan Revitalization in the United States*

SPEAKER:

Domenic Vitiello, Associate Professor, Department of City Planning, Penn School of Design



Spotlight On: Urban Book Talk with Domenic Vitiello

On September 12, 2017, Penn IUR hosted a book talk for the latest release in The City in the 21st Century (C21) book series, *Immigration and Metropolitan Revitalization in the United States* (University of Pennsylvania Press, 2017), edited by Penn IUR Faculty Fellow Domenic Vitiello, Associate Professor, Department of City and Regional Planning and Urban Studies, Penn School of Design, and Thomas J. Sugrue, Professor of Social and Cultural Analysis and History, New York University. In ten chapters written by urban historians and social scientists, the volume explores the benefits and opportunities of immigration for cities and neighborhoods, the complicated politics of revitalization and immigration, and the transnational effects of immigrant-led revitalization.

In his talk, Vitiello outlined how the narrative about the relationship between immigration and metropolitan revitalization has changed over the course of U.S. history. Currently, he said, most cities see immigrants as key players in urban revitalization and many have developed strategies to attract and retain them. Vitiello also described the challenges immigrants face in their new environments; for example, trained professionals often find that their degrees and credentials are not accepted in the United States, which leaves them with limited options (usually for low-paid, unskilled work or entrepreneurship). He argued that receiving communities should develop resources and systems to help new immigrants make a smooth transition.

For a list of all books in the C21 series, and to buy *Immigration and Metropolitan Revitalization in the United States*, visit upenn.edu/pennpress/series/C21.html.



Only by breaking-down their internal silos and creating incentives for cross-departmental collaboration and experimentation can cities truly become smarter.

—Penn IUR Faculty Fellow John Landis at "Smart Cities: From Innovation to Reality"



September 14–15, 2017

Penn IUR Cosponsored Event

U.S. Housing Policy: The Future of What Works

HIGHLIGHTED SPEAKERS:

Lance Freeman, Professor, Urban Planning Program, Columbia University

Carol Galante, I. Donald Turner Distinguished Professor in Affordable Housing and Urban Policy; Faculty Director, Turner Center for Housing Innovation, University of California– Berkeley

Margery Austin Turner, Senior Vice President, Program Planning and Management, Urban Institute

Xavier De Souza Briggs, Vice President, Inclusive Economies and Markets, Ford Foundation Cosponsors: *Housing Policy Debate*, Fels Policy Research Initiative



September 22, 2017

Penn IUR Community Event

MUSA Interactive Workshop

SPEAKER:

Omar De La Riva, Harvard Graduate School of Design

COSPONSOR:

Master of Urban Spatial Analytics (MUSA) program



September 27, 2017

Penn IUR Cosponsored Event

Partners in Policy: Kickoff Conversation with Harriet Tregoning

SPEAKER:

Harriet Tregoning, immediate past Principal Deputy Assistant Secretary, Office of Community Planning and Development, U.S. Department of Housing and Urban Development (HUD)

MODERATOR:

Diana Lind, Managing Director, Fels Policy Research Initiative

HOST:

Fels Policy Research Initiative

COSPONSOR:

PennPraxis



October 9, 2017

Penn IUR Urban Book Talk

Onoso Imoagene: Beyond Expectations

SPEAKER:

Onoso Imoagene, Assistant Professor, Department of Sociology, Penn School of Arts and Sciences



October 10, 2017

Penn IUR Public Interest Event

Venice Charms and Challenges: Climate Change Discussion

SPEAKER:

Tom Daniels, Professor, Department of City and Regional Planning, Penn School of Design



October 27, 2017

Penn IUR Cosponsored Event

Keeping the “Public Option” for Low-Income Housing

SPEAKER:

Susan M. Hoffmann, Professor, Department of Political Science, Western Michigan University

HOST:

Fox Leadership Program



October 27, 2017

Penn IUR Community Event

MUSA Lunch Speaker Series: Tim Wisniewski

SPEAKER:

Tim Wisniewski, Chief Data Officer, City of Philadelphia

COSPONSOR:

Master of Urban Spatial Analytics (MUSA) program



November 15, 2017

Penn IUR Community Event

Penn GIS Day 2017: Computer Vision and Remote Sensing in Spatial Analysis

SPEAKERS:

Rob Emanuele, Vice President of Research and Technical Lead, GeoTrellis Team, Azavea

Abhishek Guar, Deep Learning Engineer, Neurala, Inc.

Chris Holmes, SVP, Product Architecture, Planet

COSPONSORS:

Master of Urban Spatial Analytics (MUSA) program, Department of City and Regional Planning, and Wharton GIS Lab



January 16, 2018

Penn IUR Cosponsored Event

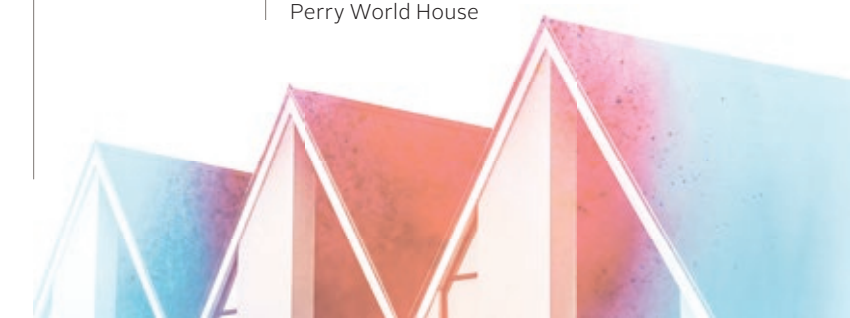
Global Housing Crisis Research Roundtable

FEATURED SPEAKER:

Kyung-Hwan Kim, Professor, School of Economics, Sogang University; former President, Korea Research Institute for Human Settlements; former Vice Minister, Ministry of Land, Infrastructure and Transport (MOLIT), Republic of Korea

COSPONSOR:

Perry World House





At a time when the American government at the national level has fallen into a state of long-term, partisan-based gridlock, local government can still be effective—indeed more effective and even more responsive to the needs of its citizens.

—Neil Kleinman at *Partners in Policy: A New City O/S*



January 17, 2018

Penn IUR Cosponsored Event

The New Urban Agenda: How Stakeholders are Defining and Driving Implementation

FEATURED SPEAKERS:

Kyung-Hwan Kim, Perry World House Visiting Fellow; Professor, School of Economics, Sogang University; former President, Korea Research Institute for Human Settlements; former Vice Minister, Ministry of Land, Infrastructure and Transport (MOLIT), Republic of Korea

Ian Klaus, Former Senior Adviser for Global Cities, U.S. Department of State; Deputy Negotiator, U.S. Delegation to Habitat III

Lisa Servon, Professor and Department Chair, Department of City and Regional Planning, Penn School of Design

Richard Weller, Professor and Chair of Landscape Architecture and Meyerson Chair of Urbanism, Penn School of Design

HOST:

Perry World House

COSPONSORS:

Kleinman Center for Energy Policy



January 25, 2018

Penn IUR Public Interest Event

Smart Cities: From Innovation to Reality

SPEAKERS:

Kyung-Hwan Kim, Perry World House Visiting Fellow; Professor, School of Economics, Sogang University; former President, Korea Research Institute for Human Settlements; former Vice Minister, Ministry of Land, Infrastructure and Transport (MOLIT), Republic of Korea

Allison Lassiter, Assistant Professor, Department of City and Regional Planning, Penn School of Design

John Landis, Crossways Professor, Department of City and Regional Planning, Penn School of Design

Richard Voith, President and Principal, Econsult Solutions and Adjunct Professor, The Wharton School

COSPONSOR:

Office of the Provost



January 29, 2018

Penn IUR Urban Book Talk

Uneasy Peace: The Great Crime Decline, the Renewal of City Life, and the Next War on Violence

SPEAKER:

Patrick Sharkey, Professor and Chair, Department of Sociology, New York University

COSPONSOR:

Department of Criminology



Spotlight On: Smart Cities, From Innovation to Reality

On January 25, 2017, in celebration of the University's 2017–2018 theme “Year of Innovation,” Penn IUR hosted a panel discussion on the role of innovation in cities, with panelists Megan Ryerson, Penn IUR Faculty Fellow and Assistant Professor of City and Regional Planning and Engineering; Allison Lassiter, Assistant Professor of City and Regional Planning, School of Design; Achin Jain, a doctoral student in Electrical and Systems Engineering at Penn's School of Engineering and Applied Science; Penn IUR Faculty Fellow Richard Voith, President and Principal, Econsult Solutions; Penn IUR Faculty Fellow John Landis, Crossways Professor of City and Regional Planning, School of Design; and Perry World House Visiting Fellow Kyung-Hwan Kim, Professor, School of Economics, Sogang University; former President, Korea Research Institute for Human Settlements; former Vice Minister, Ministry of Land, Infrastructure and Transport (MOLIT), Republic of Korea. This event was co-sponsored by Perry World House and supported by the Provost's Office of Research.

Penn IUR Co-Director Eugénie Birch, Lawrence C. Nussdorf Professor of Urban Research and Education, introduced the panelists and the event's topic, emphasizing the importance of planning cities through smart and innovative measures. The panel began with presentations on various innovative technologies affecting cities, with Ryerson arguing

that technology can inform data analysis to improve street safety; she gave the example of eye-tracking glasses that capture cyclists' moment-by-moment glances as one technological innovation that can inform the study of street use. Lassiter shared the work that her students developed, including design of sensors that: monitor home energy use and wirelessly communicate energy consumption; alert users to the problem of cars parking bike lanes; and determine when trashcans are full in order to automate trash pickup. Jain presented his work on mitigating inefficient manual approaches to managing building energy consumption, offering as an alternative a data-driven management system.

Following these presentations on new and emerging technologies, three experts discussed the challenges cities, policymakers, and businesses face in implementing such innovations. Voith presented the plan his organization created to assist businesses in better communicating the benefits of smart cities technologies. Landis spoke about the role of real-time data acquisition, suggesting that only by breaking down internal silos and creating incentives for cross-departmental collaboration and experimentation can cities truly become smarter. Kim concluded the presentations by discussing the case of Seoul, Korea and the importance of civic investment in successful project implementation.

February 20, 2018

Penn IUR Cosponsored Event
**Partners in Policy:
 A New City O/S**

FEATURED SPEAKERS:

Neil Kleiman, Clinical Assistant Professor of Public Service, New York University, and co-author, *A New City O/S*

Anjali Chainani, Director of Policy and Director of GovLabPHL, City of Philadelphia

HOST:

Fels Policy Research Initiative

February 26, 2018

Penn IUR Cosponsored Event
Sensing the City

SPEAKERS:

Francesca Russello Ammon, Assistant Professor, Department of City and Regional Planning, Penn School of Design

David Barnes, Associate Professor, History and Sociology of Science; Director, Health and Societies Program, Penn School of Arts and Sciences

Naomi Waltham-Smith, Assistant Professor, Department of Music, Penn School of Arts and Sciences

MODERATOR:

Domenic Vitiello, Associate Professor, Department of City Planning and Urban Studies, Penn School of Design

HOST:

Penn's Humanities, Urbanism, and Design (H+U+D) Initiative



February 27, 2018

Penn IUR Urban Book Talk
Mayor: The Best Job in Politics

FEATURED SPEAKER:

Michael Nutter, former Mayor, City of Philadelphia; Senior SP2 Executive Fellow at Penn IUR

COSPONSOR:

School of Social Policy and Practice and University of Pennsylvania Press



March 14, 2018

Penn IUR Urban Book Talk
**Beyond Mobility: Planning Cities
 for People and Places**

SPEAKER:

Erick Guerra, Assistant Professor, Department of City and Regional Planning, Penn School of Design

COSPONSOR:

Department of City and Regional Planning



April 23, 2018

Penn IUR Cosponsored Event
**Earth Day 2018 MUSA
 Workshop**

SPEAKER:

Rob Emanuele, Vice President of Research, Azavea

COSPONSOR:

Master of Urban Spatial Analytics (MUSA) program



**Spotlight On:
 Launching C21 Book,
 Mayor: The Best Job in Politics**

On March 27, 2018, Penn IUR, Penn's School of Social Policy and Practice (SP2), and Penn Press hosted a conversation with Michael Nutter, former Mayor of Philadelphia and Senior SP2 Executive Fellow at Penn IUR. Moderated by University of Pennsylvania Provost Wendell Pritchett, the discussion focused on Mayor Nutter's new book, *Mayor: The Best Job in Politics*, published by Penn Press as part of the Penn Press / Penn IUR The City in the 21st Century book series.

Nutter, who became the 98th mayor of his hometown of Philadelphia in 2007, began by sharing his experiences as a student at Penn—where he switched courses of study from chemistry to engineering before finally finding a good academic fit at Wharton—and his first position after graduation working for Philadelphia Councilman John C. Anderson, who would become his mentor.

Nutter shared his experiences running for office: first in the 1980s (when he lost his bid for City Council), in 1991 (when he won a spot on the City Council for the first time), and in 2007 (when he came from behind to become Mayor) and again in 2011 (for his second term as Mayor).

The mayor also shared insights into the ins-and-outs of running a municipal government after the election had been won. During the question-and-answer period that followed his talk, questions elicited anecdotes and advice; his answers highlighted proud moments, tough decisions, and mistakes made—but also communicated his hope that his legacy reflects his deep care for the people of the City of Philadelphia.

Photo by House Committee on Education and the Workforce Democrats, via Flickr.



Leadership is about bringing people together in shared values for various common goals. It's about expanding the tent. You can only conduct the business of mayoring well if you communicate, support transparency, and create as big a tent for your constituents and goals as you can.

—Michael Nutter in *Mayor: The Best Job in Politics*

INSTRUCTIONAL SUPPORT

Penn IUR provides opportunities for undergraduate and graduate students at all levels of study pursuing urban scholarship, including the newly inaugurated Penn IUR Fellows in Urban Leadership Program. Additionally, in 2017-2018, Penn IUR fostered cross-disciplinary collaboration among both students and faculty through support of Penn's Humanities, Urbanism, and Design (H+U+D) Initiative.

PENN IUR UNDERGRADUATE SUPPORT

Penn IUR supports urban-focused undergraduate students by connecting them to mentors in academia and practice through the Undergraduate Urban Research Colloquium (UURC) and the Fellows in Urban Leadership Program.

UNDERGRADUATE URBAN RESEARCH COLLOQUIUM

Each spring semester, Penn IUR sponsors the Undergraduate Urban Research Colloquium (UURC), an advanced research seminar for undergraduate scholars with an interest in urban-focused research. The program pairs students with a faculty mentor with expertise in their areas of interest. Students and faculty teams come from academic departments throughout the University, with students receiving credits through the School of Design's City and Regional Planning Department or the School of Arts and Sciences' Urban Studies Program.

In the spring of 2018, Penn IUR sponsored the 14th annual UURC. Over the course of the semester, students learned about existing research resources at Penn, visited the Architecture Archives, attended community meetings relevant to their individual research,

and learned about systematic research process by refining their research design, collecting data and presenting their results. Each session, faculty from different schools visited the class to introduce students to variety of ways that urban-centered research could be pursued. Students learned about conducting historical research using public and private archives, establishing relationship with community partners for community-based research, and using spatial analysis to inform public policy. The semester wrapped with a presentation on actionable intelligence or how academic research could be translated to practice.

The seven student-faculty teams and their topics of study this year are listed at right.

2018 UURC PROJECTS AND PARTICIPANTS

Undergraduate students partner with faculty mentors to conduct cutting-edge urban research throughout the semester. These projects include:

Assessing China's Development Aid to Africa

STUDENT:
ADAMSEGED ABEBE
Health and Societies,
School of Arts and
Sciences

FACULTY ADVISOR:
RAMAH MCKAY
History and Sociology
of Science, School of
Arts and Sciences

The Spatial Nature of Services Addressing Homelessness in Philadelphia

STUDENT:
ELISE REYNOLDS
Urban Studies, School
of Arts and Sciences

FACULTY ADVISOR:
AMY HILLIER
City and Regional
Planning, School of
Design and Social
Work, Social of Social
Policy and Practice

Safe Kids Stories: How an Online Creative Writing Platform Forms a Safe Space for Urban Youth

STUDENT:
ALLEN ZHU
Philosophy, Politics,
Economics, School
of Arts and Sciences

FACULTY ADVISOR:
LORENE CARY
English, School of Arts
and Sciences

Can Changes to the National Flood Insurance Program Be Considered a New Form of Redlining in Pre-FIRM Communities of Color: A Case Study of Eastwick in Southwest Philadelphia

STUDENT:
ABIGAIL MCGUCKIN
Urban Studies, School
of Arts and Sciences

FACULTY ADVISOR:
MICHAEL NAIRN
Urban Studies, School
of Arts and Sciences

A Comparative Analysis on Elderly Care from Families in Korea, America, and Taiwan

STUDENT:
SEYEON KIM
Urban Sociology,
School of Arts
and Sciences

FACULTY ADVISOR:
HANS-PETER
KOHLE
Sociology, School of
Arts and Sciences

Nigerians in the United States: Exploring Socioeconomic Mobility and Wealth Creation Among Nigerians in America

STUDENT:
EBEHIREME
INEGBENEBOR
Political Science,
School of Arts
and Sciences

FACULTY ADVISOR:
ONOSO IMOAGENE
Sociology, School of
Arts and Sciences

Towards Transformative Knowledge Production: Understanding Health through Civic Engagement and Multimodal Methodologies

STUDENT:
SHEILA SHANKAR
College of Liberal and
Professional Studies
(LPS), School of Arts
and Sciences

FACULTY ADVISOR:
AARON LEVY
English and History
of Art, School of Arts
and Sciences



FELLOWS IN URBAN LEADERSHIP PROGRAM

In 2017–2018, Penn IUR launched the Penn IUR Fellows in Urban Leadership Program. The program provides a competitively selected cohort of outstanding Penn undergraduates with the opportunity to engage with and learn from high-level local and regional urban leaders drawn from government, business, and civil society. The program provides students with a unique opportunity to understand cities, what it takes to run them, and how to be active contributors to their communities in whatever careers they choose to pursue.

The Penn IUR Fellows in Urban Leadership will attend monthly meetings from September to May beginning with an orientation session led by the Penn IUR co-directors and members of the Penn IUR Advisory Board. Following the orientation, they will participate in seven off-the-record meetings with individual leaders drawn from the public, private and civil society sectors. At the program's final meeting, the Fellows will share their reflections on the experience. In addition, the Fellows will be invited to attend Penn IUR Advisory Board meetings where they will receive additional informal mentoring from board members with mutual interests.

The program is open to rising juniors and seniors; outstanding rising sophomores may also apply. Penn IUR developed and promoted the Fellows program in 2017–2018, with the first cohort scheduled to begin meeting in 2018–2019.



MASTER OF URBAN SPATIAL ANALYTICS

STUDENTS

In order to complete the degree, students must complete a capstone project that applies spatial analysis to an urban content area. Examples of research projects students completed in spring of 2018 include “Estimating Home Prices in State College, PA,” “Predicting Flight Delays at Major U.S. Airports,” “Understanding Homelessness in Los Angeles and New York City,” “Wildfire Risk Prediction and Management in Chile,” “Neural Net Classification of Satellite Imagery,” “Projecting the Profitability of Rental Property Investment, and Modeling Subway Congestion in New York City.”

PROGRAMMING

Every year, Penn IUR partners with MUSA to provide a variety of programming for MUSA participants. On September 22, 2017, Omar De La Riva, Harvard Graduate School of Design, led a workshop on Geodesign and the ESRI GeoPlanner software. On October 27, 2017, Penn IUR brought in Tim Wisniewski, Chief Data Officer, City of Philadelphia to speak on the importance of open government data and on Philadelphia's leadership in this field with MUSA students over lunch. On November 15, 2017 Penn IUR celebrated GIS Day, a national day addressing the importance of geospatial analysis, with a panel discussion on cutting-edge “deep learning” technologies revolutionizing the field of remote sensing; panelists included Chris Holmes, Senior Vice President of Product Architecture, Planet; Abhishek Gaur, Deep Learning Engineer, Neurala; and Rob Emanuele, Vice President of Research and Technical Lead, GeoTrellis Team, Azavea; and Penn IUR Faculty Fellow John Landis, MUSA Faculty Advisor and Crossways Professor of City and Regional Planning, School of Design. On April 23, 2018, Penn IUR and MUSA hosted a workshop lead by Rob Emanuele, Vice President of Research, Azavea, on techniques in utilizing Python and an open source stack of Python libraries for raster processing.

PENN IUR URBAN DOCTORAL ACTIVITIES

Penn IUR supports urban-focused doctoral level researchers by creating opportunities for students to present their research and to make connections with other urban scholars across disciplines. This year Penn IUR sponsored a delegation of doctoral students to attend and present at the World Urban Forum 9 (WUF9) in Kuala Lumpur, Malaysia and cosponsored the annual Urban Doctoral Symposium and Poster Session.

In addition to taking part in Penn IUR doctoral events, a number of doctoral students go on to become part of Penn IUR's Emerging Scholars network. (See page 98 for more information on Penn IUR Emerging Scholars.)



ABOVE: The University of Pennsylvania's Delegation at the World Urban Forum (WUF9) in Kuala Lumpur, Malaysia, made up of doctoral students, staff, and faculty from Penn IUR, Perry World House, and the Kleinman Center for Energy Policy.

DOCTORAL STUDENT DELEGATION TO WUF9

Three students from the Graduate Group in City and Regional Planning, School of Design had the opportunity to present their research to an international audience of urbanists on February 9 and 10, 2018 as part of the Penn IUR Speaker Series at the UN's WUF9 conference held in Kuala Lumpur, Malaysia. Participating students and their topics of research included:

What Happens When Villages Get Swallowed by Cities

KIMBERLY MARY
NORONHA

Patron–Client Relationships as a Barrier to Planning in Informal Settlements

CHANDAN DEUSKAR

Determining the Appropriate Scale to Reduce Disaster Risk: Lessons for the New Urban Agenda from India and the Philippines

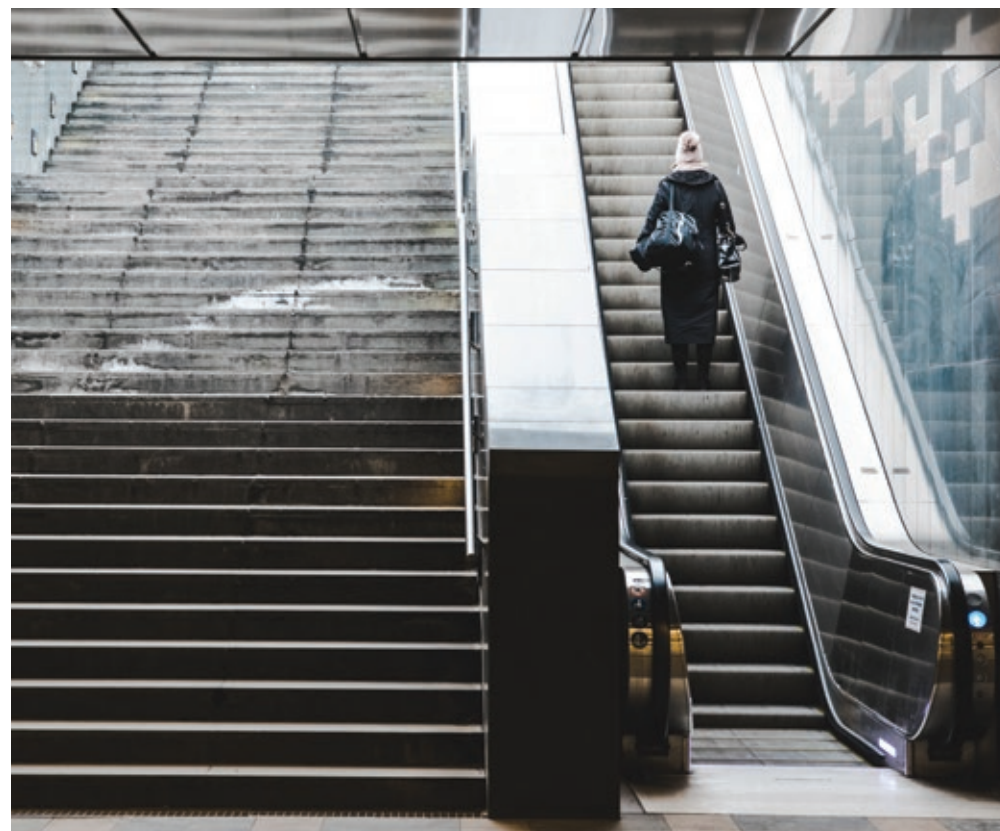
SAMUEL GELDIN

DOCTORAL SYMPOSIUM AND POSTER SESSION

On May 11, 2018, Penn IUR, in collaboration with the Penn Urban Studies Program, hosted the Urban Doctoral Symposium and Poster session, which celebrated the achievements of graduating doctoral students who have completed dissertations on urban-focused topics and gave all doctoral students with an urban course of study an opportunity to present their research through a poster session.

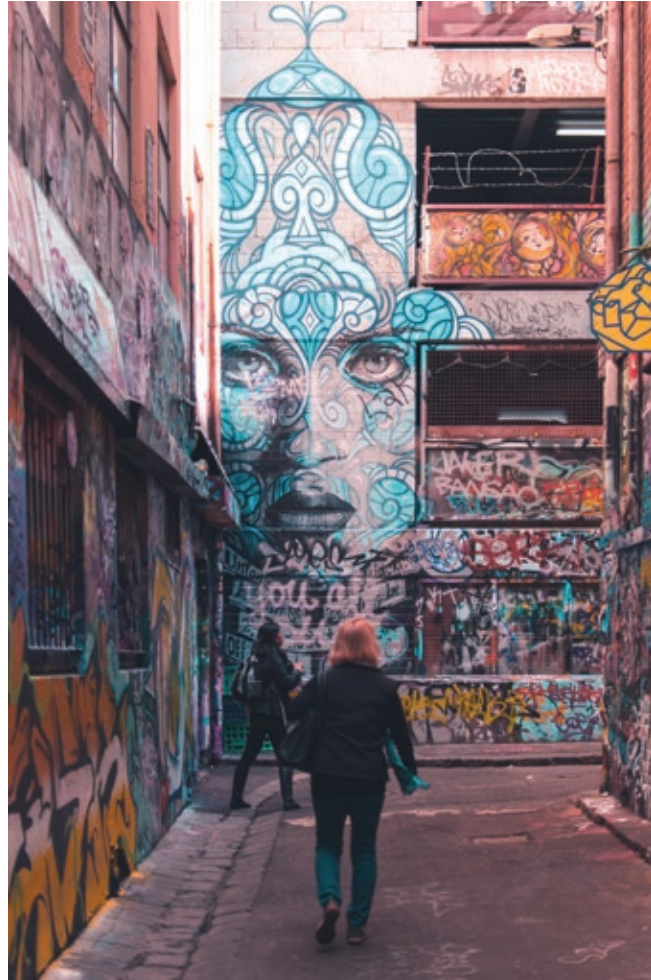
The graduating students and their topics of study were:

<p>Radical (In)hospitality: American Media and Regulatory Stances Towards Immigration & Travel Bans</p> <hr/> <p>NOUR HALABI, Graduate Group in Communications, Annenberg School for Communications</p>	<p>Hidden Cities: Reinventing the Non-space Between Street and Subway</p> <hr/> <p>JAE MIN LEE, Graduate Group in City and Regional Planning, School of Design</p>	<p>Design, Control, Predict: Cultural Politics in the Actually Existing Smart City</p> <hr/> <p>AARON SHAPIRO, Graduate Group in Communications, Annenberg School for Communications</p>	<p>Eating at the End of the Month: The SNAP Cycle, Its Management and Impacts on the Health of Low-Income Households</p> <hr/> <p>ELIZA DAVENPORT WHITEMAN, Graduate Group in City and Regional Planning, School of Design</p>
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Doctoral students with poster presentations included:

<p>Credit Constrained? How the Cost of Capital Affects District Resources and Student Achievement</p> <hr/> <p>CAMERON ANGLUM, Graduate Group in Education Policy, School of Education</p>	<p>The Role of Informal Transit in Re-Structuring Metropolitan Areas in Developing Countries: The Case of Luanda, Angola</p> <hr/> <p>JOSÉ CALÉIA CASTRO, Penn IUR Visiting Scholar in Landscape Architecture, School of Design</p>	<p>The College Promise in Communities: Do Place-based Scholarships Affect Residential Mobility Patterns?</p> <hr/> <p>ELAINE LEIGH Graduate Group in Higher Education, School of Education</p>	<p>The Impact of Behavioral and Economic Drivers on Gig Economy Workers</p> <hr/> <p>PARK SINCHAISRI Graduate Group in Operations, Information, and Decisions, the Wharton School</p>	<p>Megalopolis, U.S.A.: Regional Urbanization and the Invention of the Northeast Corridor, 1945-1973</p> <hr/> <p>KRISTIAN TAKETOMO Graduate Group in History, School of Arts and Sciences</p>
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PENN'S HUMANITIES, URBANISM, AND DESIGN (H+U+D) INITIATIVE

The Penn Humanities, Urbanism, and Design (H+U+D) Initiative was a five-year project, funded by the Andrew Mellon Foundation, exploring the intersection of the humanities and design disciplines around cities that concluded in the spring of 2018. A joint project with the School of Design and the School of Arts and Sciences, the H+U+D Initiative convened a Faculty Colloquium composed of faculty from the humanities and design disciplines as well as sponsoring several other educational and research activities.

Penn IUR provided administrative and programmatic support to the H+U+D Initiative from its inception. Penn IUR Co-Director Eugénie Birch co-directed the initiative with Penn IUR Faculty Fellow David Brownlee, Frances Shapiro-Weitzenhoffer Professor of 19th Century European Art and Chair, Graduate Group in the History of Art, School of Arts and Sciences.

Each year, the initiative welcomed a new group of faculty members and invited two Junior Fellows (scholars from other institutions who have recently completed their doctoral work) to participate in the H+U+D Colloquium, which met biweekly to share research and foster collaboration. Since 2017–2018 was the program's final year, H+U+D invited past Colloquium members to take part in the convenings, creating a "SuperColloquium" of 20 faculty members from across the humanities and design disciplines.

H+U+D initiated several cross-disciplinary convenings in the fall of 2017. On November 17, 2017, the Initiative cosponsored a conference at the School of Design entitled "The Culture of Cultivation: Designing with Agriculture;" on October 27, 2017, H+U+D sponsored a panel at the Society of City and Regional Planning Historians (SACRPH) conference in Cleveland entitled "Sensing the City;" on October 12, 2017, organized a roundtable at Association of Collegiate Schools of Planning (ACSP) entitled "Migrants' Spaces and Rights to / in the City;" on April 5–6, 2018, supported a symposium entitled "Structural Instabilities: History, Environment, and Risk in Architecture" that explored how the structural instabilities of the 21st century are legible in histories of architecture and related spatio-political disciplines.

Each year, Penn IUR cosponsored the H+U+D Annual Lecture. This year, the Annual Lecture, held on February 26, 2018, was a reprise of the successful "Sensing the City" event first presented at SACRPH. H+U+D also cosponsored, with the Department of Germanic Languages and Literature and Penn Program in Environmental Humanities, a public guest lecture on January 22, 2018, by Christina Gerhardt, Associate Professor, University of Hawaii at Manoa, and 2017–2018 Visiting Scholar 2017–2018, University of California–Berkeley, entitled "Climate Change, Climate Change Refugees, and Public Art."

H+U+D also supported graduate and undergraduate courses and student research awards. The four undergraduate city seminars offered were "New York as Incubator of Twentieth Century Urbanism:

Four Urban Thinkers and the City They Envisioned;" "Media and Memories of the Future: Sound and Environment in Berlin, Spring 2018;" "Philadelphia: Urban Experience and Public Memory;" and "The City—Baltimore, Spring 2018," a course initially sponsored by H+U+D that has been institutionalized by Urban Studies and for which H+U+D continues to provide travel support. The H+U+D-sponsored graduate seminar was "Sinking / Floating: Phenomenologies of Coastal Urban Resilience."

This past year, the Initiative awarded a record-breaking nine research grants to Penn students in all stages in their academic careers. In total, H+U+D disbursed \$14,000 in student research funding in 2017–2018. Award recipients presented their research at the Super Colloquium in the spring semester. Recipients and their topics of study included:

<p>American Aid in Modern Middle East: Architecture, Development and Resistance, 1949–61</p> <p>DALAL MUSAED ALSAYER Ph.D. Candidate in Architecture</p>	<p>Optimizing Culture—Walter Gropius's Dammerstock, 1929</p> <p>KEVIN BERRY Ph.D. Candidate in Architecture</p>	<p>Positioning Medicine in the Neoclassicism of 18th and 19th Century</p> <p>RIVA CADWALLADER Undergraduate in Health and Societies</p>
<p>Decorative Arts Rivalry: The Twentieth Annual Parisian Salon of the Société des Artistes Décorateurs, 1930</p> <p>ALISA CHILES Ph.D. Candidate in History of Art</p>	<p>The Hanse as Network: Late Medieval Altarpieces in Fifteenth Century Lübeck</p> <p>LAURA TILLERY Ph.D. Candidate in History of Art</p>	<p>The Voids of New York: Spaces of the Modern Metropolis in American Art from Chase to O'Keeffe</p> <p>LEE ANN CUSTER Ph.D. Candidate in History of Art</p>
<p>Material Poetics: Landfills, Waste, Media</p> <p>ORCHID TIERNEY Ph.D. Candidate in English</p>	<p>Age-Friendly Daegu Envisioned by the Elderly</p> <p>SEYEON KIM Undergraduate, Sociology</p>	<p>Urban Obsolescence and Queer Time: James Schuyler's Assembled New York</p> <p>DAVY KNITTLES Ph.D. Candidate in English</p>

In Spring 2018, the Mellon Foundation awarded Penn a second round of funding (\$1.5 million) to build on the success of the first H+U+D Initiative. Under this funding, the project will shift its focus to explore inclusion, encompassing what we study and who we are at Penn. Entitled "The Inclusive City: Past, Present, and Future," this five-year project will begin in the fall of 2018; it will retain the basic structure of the original H+U+D project, but will offer more attention to undergraduate research and instruction. To learn more, see page 106.

FOR MORE INFORMATION ON THE H+U+D INITIATIVE, VISIT:
humanitiesurbanismdesign.com

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Penn IUR's academic and professional networks promote exploration of urban issues across disciplines and sectors while its advisory boards help shape its programs and initiatives. Penn IUR engages the many experts who collaborate with Penn IUR on research and programming through six categories: Faculty Fellows, Scholars, Emerging Scholars, Fellows, Visiting Scholars, and Affiliated Doctoral Students. Through these networks, Penn IUR aims to foster an environment that encourages cross-disciplinary connections and nurtures a collaborative spirit across the University and beyond.

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Penn IUR is advised by internationally renowned urban experts. The Penn IUR Advisory Board is comprised of innovative practitioners in such fields as real estate, governance, arts and culture, urban planning, finance, communications, and philanthropy. The Penn IUR Executive Committee is composed of deans, faculty, and University administrators from across Penn's 12 schools.

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LOOKING AHEAD



THE INCLUSIVE CITY

The Andrew W. Mellon Foundation has awarded a \$1.533 million grant to the University of Pennsylvania for a five-year project focused on urban diversity and inclusion entitled “The Inclusive City: Past, Present, and Future.” The project builds upon the Mellon-funded Humanities, Urbanism, and Design (H+U+D) Initiative, a ground-breaking five-year collaboration by the School of Design, School of Arts and Sciences and Penn IUR that brought together students and faculty to explore cities—past, present and future—examining them at the intersection of the humanities and design disciplines. “The Inclusive City” project will retain the basic structure of the original H+U+D project, with a new thematic focus on diversity and inclusion.



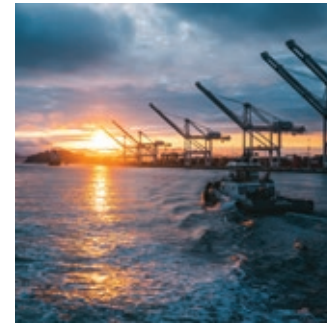
HOUSING PUBLICATIONS

Penn IUR promotes scholarship and discussion related to the housing market through its events and publications. In 2018–2019, Penn IUR will produce two edited publications focused on housing policy: *Perspectives in Fair Housing*, edited by Wendell Pritchett, Vincent, Reina, and Susan Wachter, that examines the impact of the 1968 Fair Housing Act, and a special issue of the journal *Cityscape*, edited by Vincent Reina and Susan Wachter, focused on race and housing policy.



RISE OF THE CITY IN CHINA

With support from Penn Global, Penn IUR will continue a conference series at the Penn Wharton China Center in Beijing to examine the historical development of cities in China, how urbanization is measured, means of financing sustainable urban development in China, and the transferable lessons for other countries.



RENEWW

Penn IUR and partners have been identifying potential cities in which to pilot Renewable Energy, Nutrition, Environment, Water, and Waste (RENEWW) Innovation zones. In the fall of 2018, Penn IUR will hold workshops with local stakeholders, designers, and engineers to develop designs that can support populations’ needs for sustainable water, food, energy, and sanitation. Partners include the U.S. Department of State, the National Renewable Energy Laboratory, Context Partners, Future Earth, World Resources Institute, The City of Oakland, Texas A&M University, Stanford University, MIT, and others.



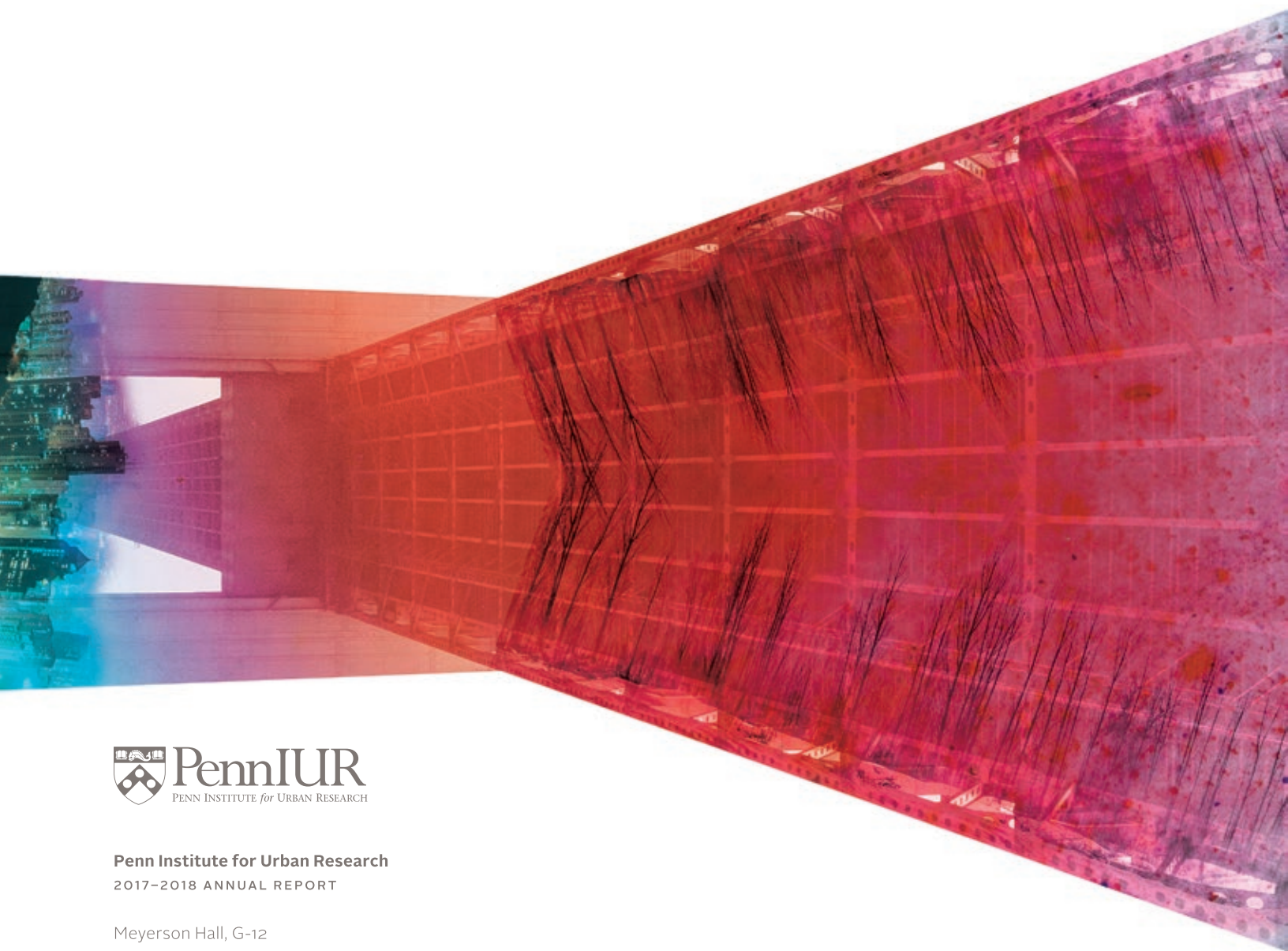
EXPANSION OF STATE AND LOCAL FINANCE ONLINE RESOURCE

Penn IUR’s Municipal Finance Working Group launched this online library dedicated to state and local finance resources at the end of the 2017–2018 year. The working group, with support from Penn IUR, will expand the library’s holdings and its reach in the next year.



PENN IUR FELLOWS IN URBAN LEADERSHIP PROGRAM

Penn IUR’s first Fellows in Urban Leadership Program cohort will begin meeting in the fall of 2018. These competitively selected Penn undergraduates will engage with and learn from high-level local and regional urban leaders drawn from government, business, and civil society.



Penn Institute for Urban Research
2017-2018 ANNUAL REPORT

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