

Penn IUR Leads Habitat III Delegation



HABITAT III: Penn IUR Co-director Eugénie Birch (right), UN Secretary General Ban Ki-moon (center), and Executive Director of UN-Habitat Joan Clos (left) at a meeting of the General Assembly of Partners at UN Habitat III.

Penn IUR Co-director Eugénie Birch led Penn's 24-member delegation to Habitat III, the UN Conference on Housing and Sustainable Urban Development held in Quito, Ecuador October 17-20. Convened every 20 years, the conference attracted more than 30,000 attendees, including diplomats from UN member states, along with mayors and a wide range of stakeholders. At the conference, the member states endorsed the New Urban Agenda, a roadmap on how to plan and manage urban development in the coming decades. As part of Penn IUR's engagement at Habitat III, the Institute mounted an exhibit showcasing urban-focused research and publications undertaken at Penn IUR and across the university. The projects and publications shared at the exhibition booth aimed to not only generate new

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Partnering with Philly Fed on Inclusive Growth

Penn IUR cosponsored the Federal Reserve Bank of Philadelphia's seventh biennial conference on issues related to building shared prosperity in urban communities. The conference, held September 21-23 at the Hilton Philadelphia at Penn's Landing on the theme of "Reinventing Our Communities: Transforming Our Economies," explored how communities can connect people, place, and capital to transform local and regional economies in an inclusive way. This topic was also explored in depth in joint Penn IUR/Federal Reserve Bank of Philadelphia working papers distributed at the conference and slated for

publication in March 2017 as a special issue of the journal *Cityscape*, guest edited by William Lambe, Senior Community and Economic Development Advisor, Federal Reserve Bank of Atlanta; Theresa Singleton, Vice President and Community Affairs Officer, Federal Reserve Bank of Philadelphia; and Penn IUR Co-director Susan Wachter, Sussman Professor of Real Estate and Finance, The Wharton School.

The conference opened with a plenary session, "Building an Inclusive, Transformative Economy," a welcome by Singleton and a talk by Xavier

de Souza Briggs, Vice President, Economic Opportunity and Markets, Ford Foundation. Briggs reflected on how foundations are redefining their funding approaches to address inequitable underlying systems. He was then joined by other thought leaders in a discussion of the education, job training, and innovation initiatives needed to prepare communities for a changing economy.

Gabriela Ramos, Organisation for Economic Co-operation and Development (OECD) Special Counsellor to the Secretary-General, Chief of Staff, and Sherpa to the G20, provided the

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Upcoming Events

VISIT WWW.PENNIUR.UPENN.EDU FOR MORE DETAILS AND TO REGISTER.

JANUARY 23

PENN IUR COSPONSORED EVENT

BOOK LAUNCH: *THE UNBANKING OF AMERICA*, BY LISA SERVON

PENN BOOKSTORE | 5:00 – 6:30 PM

Join the School of Design and Penn IUR for the launch of *The Unbanking of America: How the New Middle Class Survives* (Houghton Mifflin Harcourt, 2017) by the School of Design's newest faculty member, Lisa Servon, Professor of City and Regional Planning, School of Design. The book examines the mainstream bank and credit system, delivering a compelling indictment of America's banks.

JANUARY 24

PENN IUR COSPONSORED EVENT

PRICING CARBON: LESSONS FROM CANADA

KLEINMAN CENTER FORUM | 5:30 – 7:00 PM

Join the Kleinman Center for Energy Policy, in partnership with Penn IUR and the Canadian Consulate of New York, for a panel discussion on the approval of a carbon tax by the Canadian province of Alberta. Panelists include Gitane De Silva, Alberta's Senior Representative to the United States, Canadian Embassy; Jon Mitchell, Vice President Environment & Sustainability, Cenovus; and Jim Hines, Professor of Law and Co-director, Law and Economics Program, University of Michigan. A reception will follow.

JANUARY 25

PENN IUR COSPONSORED EVENT

ANNUAL H+U+D PUBLIC LECTURE FEATURING ALAN GREENBERGER

LOCATION TO BE ANNOUNCED | 5:30 PM

Alan Greenberger, Distinguished Professor and Fellow, Drexel University and former Deputy Mayor, Philadelphia, will deliver the annual Humanities, Urbanism, and Design (H+U+D) Initiative lecture. He will be speaking on the life and work of Romaldo (Aldo) Giurgola, Italian architect and professor.

FEBRUARY 2

PENN IUR PUBLIC INTEREST EVENT

MEDIA, COMMUNICATION, AND THE CITY

MEYERSON HALL, LOWER GALLERY | 12:00 – 2:00 PM

Join Penn IUR for a conversation with Michael X. Delli Carpini, Walter H. Annenberg Dean and Professor of Communication, Annenberg School for Communication; John L. Jackson, Jr., Dean, Richard Perry University Professor and Penn Integrates Knowledge (PIK) Professor, School of Social Policy & Practice; and Fritz Steiner, Dean and Paley Professor, School of Design, on the media's role in shaping social, economic, and physical urban environments. This event celebrates Penn's Year of Discovery and is made possible with support from Penn's Office of the Provost. Lunch will be served.

FEBRUARY 3 AND MARCH 17

MUSA BROWN BAG LUNCH SPEAKER SERIES

MEYERSON HALL, PENN IUR CONFERENCE ROOM, G12 | 12:00 – 1:30 PM

Join Penn IUR and MUSA for the Brown Bag lunch speaker series. On February 3, Matthew Harris, Department Manager of Geospatial Services / Archaeological Laboratory, Deputy Department Manager Cultural Resources Services, Design and Consulting Services Group (DCS), will talk about the use of geospatial analysis in the field of archaeology. The speaker for the March event will be announced online when information becomes available. Lunch will be served.

MARCH 14

PENN IUR COSPONSORED EVENT

FILM SCREENING AND DISCUSSION: *CHANGING FACE OF HARLEM*

MEYERSON HALL, B1 | 6:00 – 8:00 PM

Join the School of Design's Department of City and Regional Planning and Penn IUR for a screening of *Changing Face of Harlem*, a one-hour documentary about Harlem's history, early development, and present transformation. The film examines the revitalization of the birthplace of the Black Renaissance through the stories of the neighborhood's residents, small business owners, politicians, developers, and clergy. A discussion with filmmaker Shawn Batey will follow.

MARCH 20

PENN IUR PUBLIC INTEREST EVENT

BOOK LAUNCH: *MALL CITY*, BY STEFAN AL

PENN BOOKSTORE | 5:00 – 6:30 PM

Join Penn IUR for the launch of *Mall City: Hong Kong's Dreamworlds of Consumption* (University of Hawaii Press, 2016) by Penn IUR Faculty Fellow Stefan Al, Associate Professor, Department of City and Regional Planning, School of Design. *Mall City* explores the evolution of retail space and the effects of this evolution on Hong Kong, raising questions about architecture, city planning, culture, and urban life.

MARCH 28

PENN IUR PUBLIC INTEREST EVENT

BOOK LAUNCH: *GOVERNING THE FRAGMENTED METROPOLIS*, BY

CHRISTINA ROSAN

PENN BOOKSTORE | 5:00 – 6:30 PM

Join Penn IUR and Penn Press for the launch of the most recent book in The City in the 21st Century series, *Governing the Fragmented Metropolis: Planning for Regional Sustainability* by Christina Rosan, Professor of Geography, Temple University (University of Pennsylvania Press, 2016). In the book, Rosan argues for a nuanced understanding of metropolitan development and local land use planning, and explores various approaches to development and governance across the nation's metropolitan regions.

APRIL 20 – 21

PENN IUR COSPONSORED EVENT

PERRY WORLD HOUSE CONFERENCE: *GLOBAL SHIFTS IN FOCUS:*

MARGINALIZATION & INEQUALITY

PERRY WORLD HOUSE | 9:00 AM – 5:00 PM

Perry World House's spring conference will analyze how marginalization and inequality are cause and consequence of today's global shifts—namely urbanization, migration, and demographic change. The conference will explore the relationship between policies enacted to address these global shifts and marginalization and inequality. Penn IUR is a cosponsor.

MAY 13

PENN IUR COSPONSORED EVENT

BOOK LAUNCH: *NATURE AND CITIES*, CO-EDITED BY FRITZ STEINER

MEYERSON HALL, LOWER GALLERY | TIME TO BE ANNOUNCED

Join the School of Design and Penn IUR for the launch of *Nature and Cities: The Ecological Imperative in Urban Design and Planning* (Lincoln Institute of Land Policy, 2016) co-edited by Penn IUR Faculty Fellow Fritz Steiner, Dean and Paley Professor, School of Design, and with George F. Thompson and Armando Carbonell. *Nature and Cities* asserts that ecologically based urban designs and plans are essential as the world urbanizes and the effects of climate change grow more severe.

Faculty Spotlight: Frederick Steiner



FREDERICK (FRITZ) STEINER is Dean and Paley Professor in the School of Design. Prior to his appointment in 2016, Steiner served for 15 years as Dean of the School of Architecture at the University of Texas at Austin. A Fellow of the American Society of Landscape Architects, the Council of Educators in Landscape Architecture, and the American Academy in Rome, Steiner has written, edited, or co-edited 18 books, including, most recently, *Nature and Cities: The Ecological Imperative in Urban Design and Planning* (Lincoln Institute of Land Policy, 2016), co-edited with George F. Thompson and Armando Carbonell.

1. YOUR PERSPECTIVE ON PENN IS UNIQUE—YOU'VE GONE TO SCHOOL HERE, TAUGHT HERE, BEEN A PENN IUR SCHOLAR SINCE 2013, AND NOW YOU ARE DEAN OF THE SCHOOL OF DESIGN. SO NOT ONLY DO YOU HAVE A RELATIONSHIP WITH PENN THAT SPANS DECADES, BUT ALSO YOU HAVE INSIGHT INTO THE UNIVERSITY FROM MANY DIFFERENT POINTS OF VIEW. WHAT IS YOUR VISION FOR THE SCHOOL OF DESIGN?

I'm in the stage of listening and learning. I don't want to be premature, even though I have a deep relationship with Penn. As part of the listening process, I've asked each of the departments to give me a big idea to which I can devote my time—we're in the process of doing that now.

In terms of an overarching vision: I believe that design can transform lives for the better and that communicating that to a broader audience is important. I think that fellowships for graduate students, improving our space, increasing the diversity of our faculty and students, and faculty support have to be part of whatever we do moving forward.

2. YOU FIRST CAME TO THE SCHOOL OF DESIGN AS A GRADUATE STUDENT, EARNING A MASTER OF REGIONAL PLANNING AND A MASTER'S DEGREE AND A PH.D. IN CITY AND REGIONAL PLANNING. WHAT DREW YOU TO PENN AT THAT TIME?

Like many others of my generation, I was very involved in the environmental movement and also the civil rights movement. I was active in the first Earth Day at the University of Cincinnati, where I was an undergraduate. Part of my job was to put together the book fair; at the time there were only a handful of books on the environment: Rachel Carson's *Silent Spring*, Aldo Leopold's *A Sand*

County Almanac, Barry Commoner's *Science and Survival*, Ralph Nader's *Unsafe at Any Speed*, Paul Ehrlich's *The Population Bomb*, and Ian McHarg's *Design with Nature*. As an undergraduate design student, I was immediately attracted to the notion of designing with nature. Ian McHarg was here at Penn, so I pretty much made up my mind as soon as I saw the book that I wanted to go Penn for graduate school.

I was fortunate because at that time there were so many leaders at Penn, not only in landscape architecture but in planning, architecture, and fine arts as well. It was a wonderful time to be a graduate student.

3. I UNDERSTAND THAT, AFTER GRADUATING FROM PENN, YOU ORIGINALLY INTENDED TO GO INTO PRACTICE IN ENVIRONMENTAL PLANNING AT WASHINGTON STATE UNIVERSITY. YOU THEN WENT ON TO BE A TEACHER, SCHOLAR, AND ADMINISTRATOR AT A NUMBER OF INSTITUTIONS, INCLUDING ARIZONA STATE UNIVERSITY, THE UNIVERSITY OF COLORADO AT DENVER, PENN, AND, MOST RECENTLY, UNIVERSITY OF TEXAS AT AUSTIN. WHAT MADE YOU GO INTO ACADEMIA? WHAT HAVE YOU VALUED ABOUT BEING IN ACADEMIA? HOW HAVE YOUR ACADEMIC CAREER AND YOUR LANDSCAPE DESIGN PRACTICE INFORMED ONE ANOTHER?

There were a number of factors. It was the mid-1970s and there was a recession, so there weren't that many jobs available. Washington State University was looking for someone from the Landscape Architecture and Regional Planning program at Penn. I was the only one who applied. They were looking for someone because they were reorganizing an undergraduate program in Landscape

Architecture for its initial accreditation and were starting a graduate program in Environmental Planning—so I fit the profile pretty directly. So I was involved with both programs at Washington State University, helping to create both degrees with a joint appointment in both Landscape Architecture and Environmental Planning.

One of the things that I've valued about being in academia, which I discovered fairly early on in my career, is that I've been able to choose the projects that I want to get involved in. After moving to Washington State, I immediately got involved in local planning issues and I realized the freedom that being an academic gave me. If I worked for a private firm, I'd have to chase contracts, and if I worked for a government agency, the work is pretty much prescribed by the jurisdiction—but as an academic I have had the freedom to choose which projects to be involved in. So there's been a back and forth between my academic career and my practice, both in environmental and community planning as well as in landscape and urban design. I view my role as that of a reflective practitioner: I get involved in projects as a practitioner and then it's my responsibility as an academic to write about them. I like to write, and publishing also helps one's academic career, so they go together very well.

4. GIVEN THE FACT THAT MORE THAN HALF OF THE WORLD'S POPULATION NOW LIVES IN URBANIZED AREAS—A PROPORTION THAT IS EXPECTED TO RISE TO TWO-THIRDS BY 2050—URBAN DESIGN, PLANNING, AND POLICY ARE AT THE CENTER OF DISCUSSIONS ABOUT CLIMATE CHANGE AND SUSTAINABILITY. YOUR LATEST BOOK, *NATURE AND CITIES* (LINCOLN INSTITUTE OF LAND POLICY, 2016), CO-EDITED WITH GEORGE F. THOMPSON AND ARMANDO CARBONELL, URGES DESIGN, PLANNING, AND POLICY PROFESSIONALS TO CREATE HEALTHY, RESILIENT, AND SUSTAINABLE CITIES (CONTINUED ON P. 23)

PUBLICATION

Slums: How Informal Real Estate Markets Work Book Launch

Penn IUR, Perry World House, and the Center for the Advanced Study of India (CASI) cosponsored on September 27 the launch of the book *Slums: How Informal Real Estate Markets Work*, a recent release in the Penn Press/Penn IUR The City in the 21st Century book series. Penn IUR Co-directors Eugénie Birch and Susan Wachter, who edited the volume with Shahana Chattaraj, Post-doctoral Research Fellow, Comparative Public Policy, Blavatnik School of Government, University of Oxford, spoke with Devesh Kapur, Director, CASI and Madan Lal Sobti Professor for the Study of Contemporary India and Professor of Political Science, Penn School of Arts And Sciences, and book contributors Sebastian Galiani, Professor of Economics, University of Maryland, and Bish Sanyal, Ford International Professor of Urban Development and Planning, Director of the Special Program in Urban and Regional Studies, Massachusetts Institute of Technology.

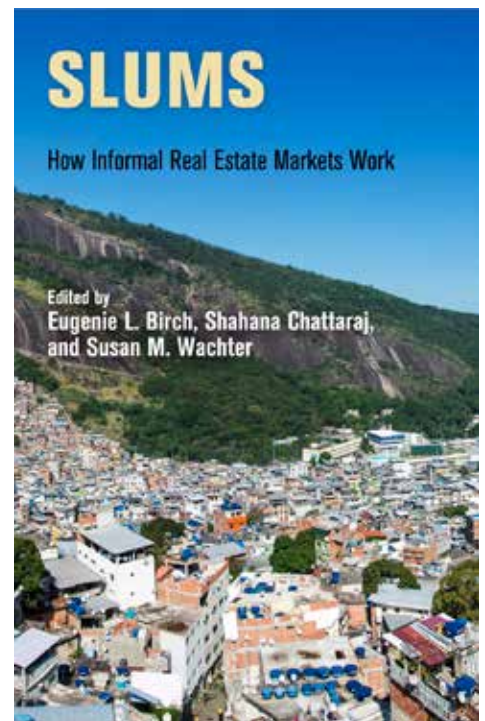
Wachter opened the event by introducing the panelists and the book, which explores relationships among informality, state policies, and market forces from a range of disciplines and across a variety of scales, and asking Galiani to discuss the impacts of formalizing informal settlements. He detailed his research with Ernesto Shargrodsky, President, Universidad Torcuato Di Tella, on a natural experiment in which they compared two groups of informal settlement dwellers in Buenos Aires that were identical aside from one factor: one group had received title to the land they inhabited and the other group had not. Through this natural experiment, Galiani explained, they found that families that received title saw an increase in the value of their homes (though likely not due to better access to credit, as some researchers had theorized) as well as changes to their family size and structure.

Sanyal put the question of improving conditions for residents of informal settlements in historical context; he noted that what we now refer to as “informal real estate markets” were once considered blight, and discussed the principal historical approaches to improving conditions in informal settlements (in-situ upgrading, granting private property rights to residents, and redevelopment). Drawing lessons from past improvement efforts, Sanyal argued that, if future efforts are to succeed, researchers and policymakers need to better understand the housing preferences of the people living in informal settlements and the varying impacts of policy packages across different contexts.

Kapur took a close look at an important factor in the Indian context: the near-absence of property taxes. While he noted that expanding taxation of property is politically difficult, Kapur argued that an efficient property tax system is essential for generating revenue for urban public goods and services, including for investments that benefit residents of informal settlements. He noted, too, another challenging political reality: the withholding of services from informal settlements as a means of keeping residents beholden to politicians for assistance.

Birch closed the panel discussion by lauding grassroots efforts to ensure that politicians respond to residents of informal settlements and explaining the role of the New Urban Agenda in furthering policies that will improve the lives of such residents. As she explained, the New Urban Agenda will help determine governance strategies that hold leaders accountable, identify development best practices for an increasingly urban world, and establish financing systems to fund both international development and local governments.

The City in the 21st Century series is edited by Penn IUR Co-directors Birch and Wachter and published by University of Pennsylvania Press. To view the full list of titles in the series and to buy *Slums*, visit www.upenn.edu/pennpress/series/C21.html.



PUBLICATION

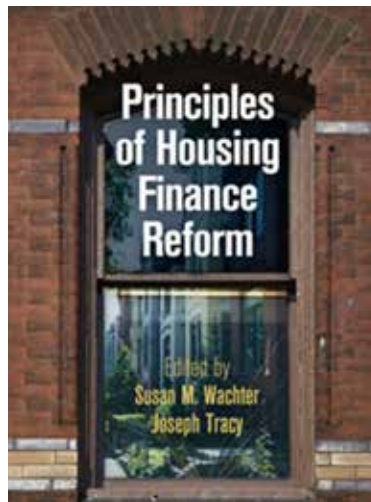
The City in the 21st Century Releases Two New Volumes

Two new books in Penn IUR and Penn Press's The City in the 21st Century series were released in Fall 2016. *Principles of Housing Finance Reform*, edited by Penn IUR Co-director Susan Wachter, Sussman Professor of Real Estate and Finance, The Wharton School, and Joe Tracy, Executive Vice President and Special Adviser to the President, Federal Reserve Bank of New York, identifies the changes necessary to modernize the American housing finance system. *Governing the Fragmented Metropolis*, by Christina Rosan, Assistant Professor, Department of Geography and Urban Affairs, College of Liberal Arts, Temple University, compares different approaches to metropolitan governance in the United States.

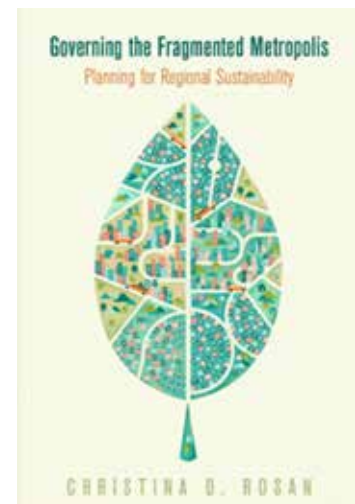
Principles of Housing Finance Reform outlines the long-term structural reforms that should underlie a rebuilt housing finance system with contributions from both policy researchers and economic experts. Authors propose solutions that are possible within this framework, including reforms to the multi-family housing finance system, the Federal Housing Administration, and the to-be-announced (TBA) market, as well as a proposal for a national mortgage note registry, among other topics.

In *Governing the Fragmented Metropolis*, Rosan compares the metropolitan planning processes embraced by Portland, Denver, and

Boston, positing a spectrum of approaches from collaborative to authoritative. At one end of the spectrum is Boston, which offers capacity-building support and financial incentives in order to garner voluntary cooperation. At the other end, Portland mandates local land use. Rosan contends that most regions—including Denver—lie somewhere in between. She contends that by understanding the current, hybrid system of local land use planning and metropolitan governance, stakeholders will be better prepared to support the political arrangements and tools needed to create sustainable metropolitan regions.



Edited by Penn IUR Co-directors Birch and Wachter and published by University of Pennsylvania Press, The City in the 21st Century series explores the depth and breadth of contemporary urban scholarship across a wide range of disciplines and represents a cross-section of research and experience on the city across the developed and developing world. To view the full list of titles in the series and to buy *Principles of Housing Finance Reform* and *Governing the Fragmented Metropolis* visit www.upenn.edu/pennpress/series/C21.html.



The City in the 21st Century book series

Eugénie Birch and Susan Wachter, series editors

Published by the University of Pennsylvania Press

The City in the 21st Century is a heterodox, interdisciplinary series of books addressing both topical and long-range issues confronting the world's cities, from disaster response to cultural coexistence, from civic engagement to urban revitalization.

Visit www.upenn.edu/pennpress/series/C21.html for a list of books in the series.

PUBLICATION

Public Pensions and City Solvency Book Launch

On November 10, Penn IUR hosted a book launch for *Public Pensions and City Solvency*, edited by Penn IUR Co-director Susan Wachter and published by Penn Press in the Penn IUR/Penn Press *The City in the 21st Century* book series. The event featured two panel discussions with experts from academia, industry, and government and a talk by book contributor Richard Ravitch, former Lieutenant Governor, State of New York. The event is the third Penn IUR-sponsored convening on public pensions in city solvency.

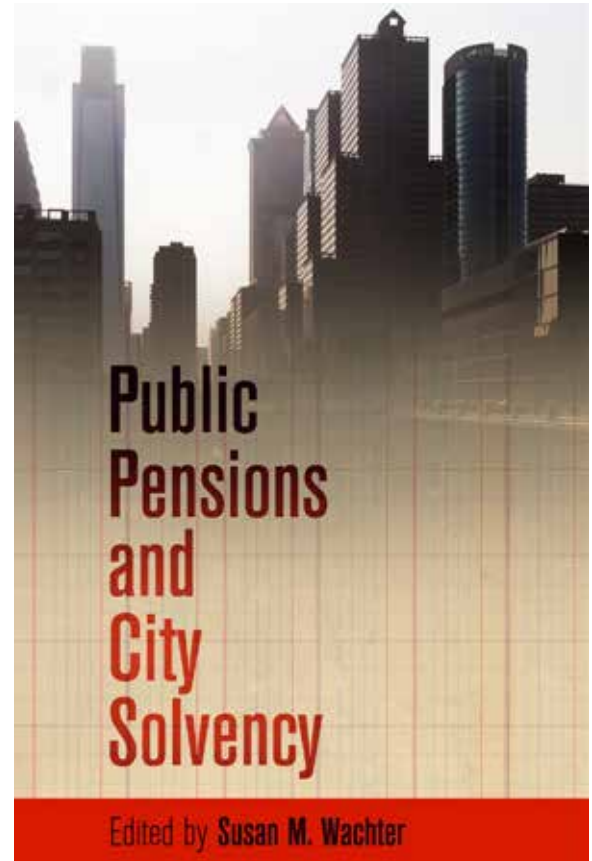
In his keynote address, Ravitch presented his ideas for reform. He stressed the need for increasing the transparency of operating budgets.

The first of the event's two panel discussions focused on changes since Penn IUR's last convening on the topic in November 2014. Wachter moderated the discussion among panelists Robert Novy-Marx, Lori and Alan S. Zekelman Professor of Business Administration, Simon Business School, University of Rochester; book contributor Matthew McCubbins, Professor of Law and Political Science, Duke University; Alex Brown, Research Manager, National Association of State Retirement Administrators (NARSA); John Sugden, Senior Director, Public Finance Department, Standard & Poor; and Allison Schragger, Contributor, *Quartz*. Topics discussed included increasing government pension liability as well as income reforms especially at state level.

The second panel focused on potential solutions, with panelists James Spiotto, Managing Director of Chapman Strategic Advisors, LLC; Matt Fabian, Partner, Municipal Market Analytics, LLC; Nancy Winkler, former Treasurer, City of Philadelphia; Peter Hayes, Managing Director, Head of Municipal Bonds Group, BlackRock, Inc.; and David Skeel, Samuel Arsht Professor of Corporate Law, Penn Law School, agreeing that a realistic assessment of the problem was essential.

To purchase *Public Pensions and City Solvency* visit www.upenn.edu/pennpress/series/C21.html.

The book appears in *The City in the 21st Century* series edited by Penn IUR Co-directors Birch and Wachter and published by University of Pennsylvania Press. To view the full list of titles in the series visit www.upenn.edu/pennpress/series/C21.html. To watch a video of the event, visit the "Events" section of Penn IUR's website (www.penniur.upenn.edu).



LEADERSHIP

GAP Works toward New Urban Agenda Implementation

In a historic move, General Assembly of Partners (GAP) members have voted to continue their association beyond Habitat III in order to work toward implementation of the New Urban Agenda, the conference's outcome document.

A civic engagement platform recognized by the UN General Assembly, GAP is composed of 16 constituent groups: local and sub-national authorities, research and academia, civil society organizations, grassroots organizations, women, parliamentarians, children and youth, business and industries, foundations and philanthropies, professionals, trade unions and workers, farmers, indigenous people, media, disabled persons,

and older persons. These groups have been working together since April 2015 to develop recommendations for Habitat III; the preparatory process included holding meetings in different regions of the world, mobilizing partner networks, creating opportunities for broad stakeholder involvement in the New Urban Agenda dialogue, and disseminating news and research through the Penn IUR-developed website the Global Urban Commons (www.globalurbancommons.org).

Established to develop a consensus for the New Urban Agenda, GAP was expected to dissolve after Habitat III but, in a sign of the group's commitment to sustainable urban

development, GAP members have agreed to continue working together to implement the New Urban Agenda's goals.

Penn IUR Co-director Eugénie Birch will remain the president of The General Assembly of Partners (GAP) through the transition period; she spoke in that capacity at Habitat III's closing ceremony. In her talk, exhorting the audience to build on the energy displayed at the conference to begin the hard work of implementation. "We the stakeholders all know, as do you, that we must act now. We cannot wait," said Birch. (See page 1 for more on Penn IUR's engagement at the conference.)

CONVENING

Improving Urban Resiliency in an Era of Sea Level Rise

On September 15, Penn IUR and the U.S. Geological Survey (USGS) hosted a panel discussion on “Sea Level Rise, Coastal Hazards, and Urban Resilience” at the Kleinman Center for Energy Policy. The event, cosponsored by the Wharton Initiative for Global Environmental Leadership (IGEL) and the Wharton Risk Management and Decision Processes Center, brought together city and national leaders from the public and private sectors to discuss strategies for improving resiliency at the city level. Presenters included Howard Kunreuther, Co-director, Risk Management and Decision Processes Center, The Wharton School; Marion McFadden, Vice President of Policy, Enterprise Community Solutions; Walter Meyer, Founding Principal, Local Office Landscape Architecture; Wayne Pathman, Co-founder and Managing Partner, Pathman Lewis, LLC; Jamie Springer, Senior Principal, HR&A Advisors, Inc.; and Harriet Tregoning, Principal Deputy Assistant Secretary, Office of Community Planning and Development, U.S. Department of Housing and Urban Development (HUD). Michael Berman, Founder, Berman Consulting, LLC, moderated.

After Penn IUR Co-director Susan Wachter welcomed the panelists and audience, Berman set

the stage for the evening’s discussion: he stressed the complexity of climate change impacts on urban areas, how sea level rise presents different challenges to different cities, and the need for multidimensional strategies to best prepare cities for the future.

Springer highlighted the steep and rising costs of adverse natural events worldwide. Federal recovery funding is unsustainable, he noted, and conventional resiliency solutions are ill-suited to protect vulnerable urban communities from the increased risk of sea level rise. Pathman echoed Berman’s call for community-specific and multi-organizational approaches, stressing that the private sector needs to be involved in designing and implementing mitigation strategies. Pathman also argued that government bodies need to be more forward-thinking in zoning policy and infrastructure investment.

McFadden drew attention to the fact that issues of sea level rise disproportionately affect low- to moderate-income communities, highlighting the work that HUD and Enterprise Community Partners are doing to increase resiliency in these communities. Tregoning stressed the importance of taking steps towards resiliency before natural

disasters hit; she offered as an example HUD’s Natural Disaster Resilience Competition, which provided education on resiliency planning to applicants nationwide and funded resiliency projects in 13 communities. Looking forward, she argued, federal, city, and municipal governments must pursue resiliency in a coordinated way.

Meyer brought a private sector perspective to the table, presenting a science-based approach to resilient design that he called “forensic ecology” as a means of assessing and protecting hydrological and land functions. Kunreuther introduced the role risk-based insurance premiums can play in encouraging individuals to take steps to reduce their vulnerability to problems associated with sea level rise.

Audience questions inspired conversations about international approaches to urban resiliency, the need for changes in regional infrastructure systems, the challenges and benefits of working across jurisdictions, and the role of culture in motivating communities to prioritize resiliency. In wrapping up the discussion, Wachter stressed the importance of combining scientific understanding with action-based leadership as a means of realizing change.

CONVENING

The Media’s Role in the Habitat III Conversation

On October 4, several weeks before the UN-Habitat III Conference in Quito, Ecuador, Penn IUR and Perry World House co-hosted a discussion entitled “Media and Habitat III: How You Can Be a Part of It” on the role of the media covering Habitat III and how the general public can follow the conference. Attendees gathered for an intimate conversation with Penn IUR Co-director Eugénie Birch; Neal Peirce, Founder and Editor-in-Chief, *Citiscope*; Mythili Sampathkumar, U.S. Editor, *Cities Today*; and Ariella Cohen, Editor-in-Chief, *Next City*.

Birch launched the conversation with a brief history of the UN’s Habitat conferences, which occur only once every 20 years. Stressing the importance of the media’s role in covering

Habitat III, she asked the panel of journalists to describe their approaches to reporting on the conference and the ideas it generates.

Pierce shared *Citiscope*’s creation of a major new section of its website focused exclusively on Habitat III; the section includes analysis, expert commentary, news reports, and “explainers” that introduce readers to new terms and processes with which they may be unfamiliar. *Next City*, said Cohen, has taken a different approach, providing in-depth features that get to the heart of the conference’s goals, but do not necessarily reference Habitat III; in this sense, *Next City* has framed Habitat III as part of a larger movement toward urban sustainability. Sampathkumar described

how *Cities Today* was running background articles written by current and former UN-Habitat staff, had developed a report on implementation of the New Urban Agenda (Habitat III’s consensus outcome document), and—after the conference—planned to focus on implementation of the New Urban Agenda, particularly on financing mechanisms.

To keep up with the implementation of the New Urban Agenda and, more broadly, on work toward global urban sustainability, visit the websites of Penn IUR (penniu.upenn.edu), *Citiscope* (citiscope.org), *Next City* (nextcity.org), and *Cities Today* (cities-today.com). See page 11 for news on Penn IUR’s collaborations to further the New Urban Agenda’s implementation.

CONVENING

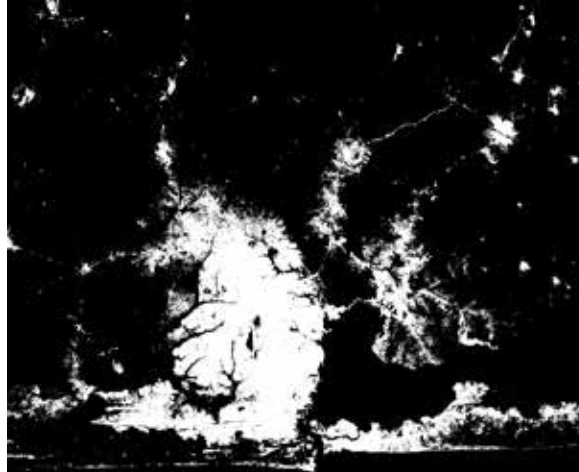
Remotely-Sensed Measurement for a Resilient and Sustainable Urban Future

On September 15, Penn IUR, the Wharton Spatial Integration Laboratory for Urban Systems (SILUS), and the U.S. Geological Society (USGS) Science and Decisions Center convened a symposium on innovations in spatial data and how they can inform our understanding of the impact of human settlements on urban ecosystem services. Entitled “Remotely Sensed Measurement for a Resilient and Sustainable Urban Future,” the symposium included a full day of discussions among natural and social scientists from the atmospheric, biophysical, economic, geographic, and sociological disciplines and included a keynote address by Richard Weller, Martin and Margy Meyerson Chair of Urbanism and Professor and Chair of Landscape Architecture, Penn School of Design.

After introductory remarks by Carl Shapiro, Director, USGS Science and Decisions Center, Fritz Steiner, Dean and Paley Professor, Penn School of Design, presented on the Sustainable SITES Initiative, a program for systematically assessing ecologically resilient landscapes and certifying successful projects. Steiner, a leader in the development of SITES, described the initiative's rating system and its use of data and performance benchmarks in assessing landscape projects. (See page 3 for an interview with Steiner.)

In his keynote address, Weller presented his current research project, the *Atlas for the End of the World*, a series of maps that illustrate conflicts between biodiversity and human settlement. The *Atlas for the End of the World* maps protected areas in the ecoregions within the world's biodiversity hotspots, illustrating conflicts between projected city growth and biologically diverse habitats. (See page 23 for more on Weller's *Atlas for the End of the World*.)

The symposium's three panel sessions each focused on a different aspect of spatial data application. The first session, “Global Urban Growth and Remote Sensing Imagery,” featured Martino Pesaresi, Scientific Officer, Joint Research Centre, the European Commission; Patrick Lamson-Hall, Research Scholar, NYU Marron Institute of Urban Management;



COMPARING BUILT-UP AREAS: In his presentation, Martino Pesaresi, Scientific Officer, Joint Research Centre, the European Commission, explained how the Global Human Settlement Layer (GHSL) can be used to compare land use patterns, using as an example a comparison between Lagos, Nigeria, above, with approximately 5 million inhabitants, and Minneapolis, United States, below, with about half a million inhabitants.

Christopher Small, Lamont Research Professor, Lamont-Doherty Earth Observatory, Columbia University; and Penn IUR Co-director Eugénie Birch, Lawrence C. Nussdorf Professor of Urban Research, Penn School of Design. Panelists discussed data sources and methods related to urban spatial growth and remote sensing, as well as the broader policy context within which these technologies and databases are being utilized.

The second session, “Models and Spatial Data for a Sustainable Urban Future,” featured Marc Imhoff, Visiting Research Scientist, Earth System Science Interdisciplinary Center, University of Maryland; Mark Montgomery, Professor of

Economics, Stony Brook University and Senior Associate, Poverty, Gender and Youth Program, Population Council; Gilles Duranton, Professor of Real Estate, Dean's Chair in Real Estate, The Wharton School; and Peter Christensen, Assistant Professor, Agricultural and Consumer Economics, University of Illinois, Urbana-Champaign. Panelists discussed the opportunities and challenges associated with various approaches to modeling urban spatial data, including coupling remotely sensed data with a model that quantifies the urban footprint, using census data in urban modeling, employing GIS data in urban economics research, and evaluating conservation and urban development policies using satellite-based data.

The third session, “Identifying the Impact of Urban Expansion on Ecosystem Services,” featured Richard Bernknopf, Research Professor, Department of Economics, University of New Mexico; Dianna Hogan, Research Physical Scientist, USGS Eastern Geographic Science Center; Yuyu Zhou, Assistant Professor, Department of Geographic and Atmospheric Sciences, Iowa State University; Hans Peter-Plag, Professor of Geophysics and Geodesy, Department of Ocean, Earth, and Atmospheric Sciences, Old Dominion University. Panelists presented examples and case studies illustrating the effects of urban growth on ecosystem services. Topics included an integrated assessment tool that is used in Miami, Florida to evaluate the tradeoff between land development and ecosystem services; an illustration of how observation and modeling can be used in conjunction to evaluate the effects of sprawl on urban ecosystem services; and research on sea level rise and sustainability in Hampton Roads, Virginia.

The final session featured reflections on the day's discussions from Ken Bagstad, Research Economist, USGS Geosciences and Environmental Change Science Center; Jerry Miller, Director, Science and Technology for Sustainability Program, Policy and Global Affairs Division, National Academies of Sciences, Engineering, and Medicine; and Gregory Snyder, Acting Branch Chief, Earth Observations Requirements, Capabilities, and Analysis Land Remote Sensing Program, USGS.

LEADERSHIP

Grassroots Efforts in Disaster Recovery in the United States and Japan

Penn IUR and the East-West Center (EWC) completed the second year of a three-year program featuring dialogue and travel exchanges between Japan and the United States to explore how local leaders, small businesses, and community-based organizations influence recovery after a natural disaster. In December, delegates from Miyako City, Iwate Prefecture (hit by the Eastern Japan Earthquake and Tsunami in 2011) and Kobe, Hyogo Prefecture (impacted by the Great Hanshin Earthquake in 1995) visited Galveston, Texas (hit by Hurricane Ike in 2008) and New Orleans, Louisiana (devastated by Hurricane Katrina in 2005) for site visits, expert discussions, and an exchange of lessons learned.

Penn IUR and EWC initiated the exchange program in an effort to build next-generation leadership

capacity and networks that engage citizens in providing meaningful input in the long-term recovery and rebuilding of their communities post-disaster. The program involves 24 participants, including representatives from nonprofit community organizations, local government branches, and small business groups from the four cities.

During the December 2016 exchange, the U.S. delegates emphasized the importance of preparedness and resilience in coastal areas in the United States, described how demographic disparities have affected disaster response and recovery, and highlighted how culture can aid the recovery process. Japanese delegates learned about different government responses as well as the power of nonprofit and quasi-governmental organizations, entities that do not have the same

influence in Japan. Delegates from both countries recognized the power of person-to-person exchanges in building hope and optimism.

Penn IUR is documenting the three-year program and, in 2017, will host a concluding conference focused on collaborative relationships among civil society, government, and businesses in disaster recovery. In 2015, the program's first year, delegates from Kobe and Miyako City hosted delegates from New Orleans and Galveston.

Penn IUR's report on the 2015 exchange can be found on the "Publications" section of the Penn IUR website (www.penniur.upenn.edu) and the report on the 2016 exchange will be available online in early 2017. Details on the 2017 conference will be shared on the website and through *Urban Link*, Penn IUR's e-newsletter, as they become available.

GRASSROOTS EXCHANGE: Clockwise from top left: Japanese delegates visit Artist Boat, a coastal preserve in Galveston, and learned about their efforts to preserve wetland grasses; a view of downtown Galveston from one of the very few buildings that exceed five stories; the Japanese delegation toured the new Lafitte Greenway, which connects neighborhoods and manages stormwater; delegation visited the ReFresh Project, an innovative fresh food hub populated by community-based organizations dedicated to providing healthy and affordable food to the Broad Street neighborhoods, with Whole Foods as the for-profit anchor tenant.



RESEARCH

Penn IUR Leads Delegation at Habitat III

(CONTINUED FROM P. 1)

knowledge but also facilitate the exchange of best practices related to sustainable urbanization across the globe.

In addition, Penn IUR hosted more than 20 presentations by members of the Penn delegation, among whom were Penn IUR Advisory Board member Paul Farmer, Principal, Paul Farmer Planning and former CEO, American Planning Association; Penn IUR Faculty Fellows Stefan Al, Associate Professor of City and Regional Planning, School of Design; William Burke-White, Richard Perry Professor of Law, School of Law, and Director, Perry World House; Daniel Aldana Cohen, Associate Professor, Sociology, School of Arts and Sciences; David Gouverneur, Associate Professor of Practice in Landscape Architecture, School of Design; Mark Alan Hughes, Professor of Practice in City and Regional Planning, School of Design and Director, Kleinman Center for Energy Policy; Wendell Pritchett, Presidential Professor of Law and Education, School of Law; Eduardo Rojas, Lecturer in Historic Preservation, School of Design; Penn IUR Emerging Scholar Mary Rocco, Post-doctoral Researcher, Penn IUR; and eight doctoral students from the Graduate Group in City and Regional Planning, School of Design.

By convening and participating in multiple preparatory events in the year preceding Habitat III, Penn IUR helped shape the conversation leading up to the conference (see page 7 for coverage of one such event). For example, last May, along with Perry World House, U.S. Departments of Housing and Urban Development and State, and the Federal Reserve Bank of Philadelphia, Penn IUR hosted the Mid-Atlantic Convening, “The City We Want and Need,” one of five meetings held throughout the nation. This meeting translated the ideals of the proposed New Urban Agenda to the U.S. context. Now that Habitat III has come to a close, Penn IUR is working with the Penn community and the General Assembly of Partners (GAP) to advance implementation of the New Urban Agenda (see page 6 and 11). To view Penn IUR’s exhibit materials and a time-lapse video of the booth, visit www.penniur.upenn.edu/habitat3.



HABITAT III: Wendell Pritchett, Presidential Professor of Law and Education, School of Law, and Paul Farmer, Architect and Planner, Paul Farmer Planning and former CEO, American Planning Association, present at the Penn IUR booth, top-right and middle-right; Penn IUR Co-director Eugénie Birch delivers an address at the closing plenary and takes part in the World Assembly of Mayors panel, bottom-right and below.



CONVENING

Advancing Implementation of the New Urban Agenda

On December 9, experts from academia, government bodies, the media, and nonprofit organizations gathered to find ways to implement the New Urban Agenda, a set of global standards for sustainable urban development formally adopted at Habitat III. "Advancing the New Urban Agenda in a Shifting World: A Multi-Stakeholder Workshop," convened by Perry World House (PWH) and cosponsored by Penn IUR and the Kleinman Center for Energy Policy, identified critical components for effective implementation of the New Urban Agenda through a series of multi-stakeholder conversations.

With an explicit focus on inclusive implementation, the workshop sought to find ways to advance the New Urban Agenda in the context of the broad demographic shifts transforming the global population. In particular, it sought to identify interdisciplinary academic research questions and policy gaps to which Penn and other academic institutions can contribute. To this end, the event was structured around five multidisciplinary conversations, with PWH Director William Burke-White welcoming attendees and Penn IUR Co-director Eugénie Birch framing these discussions with an overview of the New Urban Agenda and the events leading to its adoption.

The first roundtable discussion, entitled "Penn Perspectives on Habitat III and the New Urban Agenda," was moderated by Penn IUR Faculty Fellow Mark Alan Hughes, Faculty Director of the Kleinman Center. The discussion began with reflections from members of the Penn delegation to Habitat III, a delegation that was led by Penn IUR (see page 1), before opening up for participation from all workshop participants. Participants discussed ways academic research could be used to advance implementation; conversation covered innovative quantitative approaches as well as qualitative approaches focused on understanding which methods and models of sustainable development are working and which are not.

The second panel, "Key Challenges to Urban Planning and Management in Developing Countries," moderated by Birch, covered technical challenges to implementing the New Urban Agenda in developing countries. Representatives from Habitat III, HUD, the Penn School of Design, and PWH discussed the importance of government capacity and will in implementing the New Urban Agenda, noting that innovative and sometimes transformative approaches might be needed in cities dominated by informal systems.

Over lunch, Penn researchers from the fields of sociology, anthropology, and music took part in a talk entitled "Methods for Studying the Urban World." Participants shared a range of methodologies for conducting research to inform the development of livable communities.

Burke-White moderated the third panel on "Mechanisms for Improving Governance: From International Institutions to Grassroots Activism," which featured panelists across the nonprofit, federal government, and academic sectors. The speakers discussed how varying scales of government, from the federal level to grassroots activism, can all play a role in implementing the agenda.

The final panel, moderated by Penn IUR Co-director Susan Wachter, was entitled "Financing the New Urban Agenda: Connecting the Global and the Local." It looked at a range of financing methods to close gaps in funding the

implementation of the New Urban Agenda. Representatives from media and academia offered a range of potential funding mechanisms for projects in developing countries.

The workshop was framed by PWH's research digest *Global Shifts: Urbanization, Migration, and Demography*, which was featured at the Penn IUR exhibition booth at Habitat III, and will inform PWH's Global Shifts conference focused on marginalization and inequality, to be held April 20-21, 2017. Read the digest and learn about the conference at PWH's website (global.upenn.edu/perryworldhouse).

Penn IUR and PWH will continue to explore together global issues related to urbanization, migration, and demographic change. See the Events Calendar on page 2 or visit the "Events" section of the Penn IUR website (www.penniur.upenn.edu) for upcoming cosponsored events.

ADVANCING IMPLEMENTATION: Penn IUR Faculty Fellow David Gouverneur, Associate Professor of Practice, Landscape Architecture, School of Design, top, and Penn IUR Co-directors Susan Wachter and Eugénie Birch, below. Photo credit: Jessica Kourkounis and Perry World House.



Penn IUR Faculty Fellows News & Awards



AMMON EXPLORES PHOTOGRAPHS AND BUILT ENVIRONMENT

Francesca Russello Ammon, Assistant Professor of City and Regional Planning and Historic Preservation, School of Design, is a 2016-17 Mellon Researcher with the Canadian Centre for Architecture's Architecture and Photography Initiative, where she is researching the role of photographs in shaping planning and preservation discourse. She continues to speak widely on her latest book, *Bulldozer: Demolition and Clearance of the Postwar Landscape*, including at a Penn IUR Urban Book Talk (see page 20 for details on the Penn IUR event). She also presented new research on rehabilitation and preservation at the biennial conferences of the International Planning History Society and the Urban History Association. Recent publications include the entry on urban renewal in the *Encyclopedia of Greater Philadelphia* and a blog post as part of First Year Project, organized by the Miller Center of Public Affairs at the University of Virginia.



BIRCH ASSISTS STATE OF CONNECTICUT INNOVATION PROJECTS

The state of Connecticut has tapped Eugénie Birch, Lawrence C. Nussdorf Professor of Urban Research and Education, Department of City and Regional Planning, School of Design, to contribute to its broad programming on innovation and entrepreneurship. Drawing on her expertise in urban revitalization, her publications on innovation districts, and her work on the Penn IUR Roundtable on Anchor Institutions (PRAI), she served as a member of the jury for the state's new Innovation Places program and is now leading a team to develop a master plan to support innovation and entrepreneurship among the state's 44 institutions of higher education. This work blends well with her recent appointment to the Board of Directors, Regional Plan Association, that is currently developing its Fourth Regional Plan for an area that includes Connecticut, New York, and New Jersey.



BRANAS AND MACDONALD PURSUE 100 & CHANGE FUNDING

Charles Branas, Professor of Epidemiology, Department of Biostatistics and Epidemiology, Perelman School of Medicine and Director, Penn Injury Science Center Director and Penn Urban Health Lab, and John MacDonald, Professor of Criminology and Sociology, School of Arts and Sciences and Penny and Robert A. Fox Faculty Director, Fels Institute of Government, are part of the team (which includes Penn IUR Emerging Scholar Eugenia South) that submitted an application for the MacArthur Foundation's 100 & Change Program. The Penn team, in partnership with RTI International, proposes to expand to cities nationwide Philadelphia's work in greening vacant lots and remediating blight as a way to improve public health outcomes. Visit www.urbanhealthlab.org for a video on the proposal.



BROWNLEE ORGANIZES COMPLEXITY AND CONTRADICTION CONFERENCE

David Brownlee, Frances Shapiro-Weitzenhoffer Professor of 19th Century European Art and Chair, Graduate Group in the History of Art, Department of History of Art, School of Arts and Sciences, co-organized (with Martino Stierli, Curator of Architecture and Design, The Museum of Modern Art) a three-day symposium in November to mark the 50th anniversary of the publication of Robert Venturi's *Complexity and Contradiction in Architecture* (1966). The symposium brought together international scholars and architects to discuss the significance and impact of Venturi's book.



BURKE-WHITE WELCOMES PENN COMMUNITY TO PWH

William Burke-White, Inaugural Director of Perry World House (PWH) and Professor of Law, formally opened PWH in September, welcoming the Penn community to the University's new hub for international affairs. The two-day celebration of the center included opportunities to tour the building and to attend numerous talks, panels, and presentations on pressing global issues. He joined the Penn delegation to Quito in October, focusing his engagement there on issues of urban governance.

Penn IUR Faculty Fellows News & Awards



CANNUSCIO REPORTS ON HEALTHY LIBRARY INITIATIVE

Carolyn Cannuscio, Assistant Professor, Department of Family Medicine and Community Health, Perelman School of Medicine, co-authored a paper in the November issue of *Health Affairs* on the findings of the Healthy Library Initiative, a partnership between Penn and the Free Library of Philadelphia. The initiative shows that public libraries can be partners in building a culture of health through programming that addresses the social determinants of health.



CULHANE PROPOSES FRAMEWORK FOR INTERNATIONAL HOMELESSNESS

Dennis Culhane, Dana and Andrew Stone Chair in Social Policy, School of Social Policy & Practice, published (with Volker Busch-Geertsema and Suzanne Fitzpatrick) "Developing a Global Framework for Conceptualizing and Measuring Homelessness" in the April issue of *Habitat International*. The article demonstrates that current data is insufficient to generate a reliable worldwide enumeration of homeless people, and sets out proposals for improving estimates.



DILULIO SPEAKS ON ELDERCARE IN CHINA

John Dilulio, Jr., Frederic Fox Leadership Professor of Politics, Religion, and Civil Society and Director, Robert A. Fox Leadership Program, Department of Political Science, School of Arts and Sciences, is directing a five-year study launched in 2016 by Fox Leadership International (FLI) on eldercare in China. In September, Dilulio was a keynote speaker at a conference on China's eldercare crisis at the Penn Wharton China Center in Beijing.



GUERRA RESEARCHES TRANSPORTATION AND HOUSING COSTS

Erick Guerra, Assistant Professor in City and Regional Planning, School of Design, presented a whitepaper on incorporating housing and transportation costs into measures of neighborhood affordability at a roundtable on income inequality, social inclusion, and mobility at the Organisation for Economic Co-Operation and Development (OECD). Guerra has continued this work with a whitepaper on accessibility with Penn IUR Faculty Fellow Gilles Duranton for the Brookings Institute; a report on changing urbanization and travel behavior in Mexico's 100 largest cities with Jorge Montejano, CONACYT, and Paavo Monkkonen, UCLA, for the Lincoln Institute of Land Policy; and a contract with the World Bank to look at transportation and housing costs in Buenos Aires.



GUILLEN WRITES ON COLOMBIAN PEACE AGREEMENT

Mauro F. Guillen, Professor of International Management and Director, Lauder Institute, The Wharton School, wrote about civil wars and the end of five decades of hostilities in Colombia in a *New York Times* "Room for Debate" column in September and was interviewed on the agreement in *Knowledge@Wharton* in August. He was also featured in a December *Knowledge@Wharton* issue on the implications of Italy's referendum on a package of constitutional reforms.



GYOURKO PAPER APPLAUDED IN FORBES

Joseph Gyourko, Martin Bucksbaum Professor, Department of Real Estate and Director of the Zell/Lurie Real Estate Center, The Wharton School, was quoted in *The Economist* on credit availability during the housing boom. Additionally, his paper entitled "The Impact of Zoning on Housing Affordability," written with Edward Glaeser, was cited in *Forbes* as one of the most influential pieces of research demonstrating that land-use regulations increase housing prices. Gyourko also continues his work on Chinese property markets. He and a coauthor, Wu Jing from Tsinghua University, are putting together new time series on land prices used in manufacturing and commercial real estate, which will complement their data on residential land markets. This work also will include prices on transactions in 287 Chinese cities.

Penn IUR Faculty Fellows News & Awards



HOLOD PREPARES PENN MUSEUM EXHIBITS

Renata Holod, College for Women Class of 1963 Professor in the Humanities, Department of History of Art, School of Arts and Sciences, is participating in the redesign of the Middle East galleries at the Penn Museum with the theme "Journey to the City," for which she is preparing the exhibit *The City and Region of Rayy, Iran*, among others. For a recent exhibition (April-August 2016) at the Metropolitan Museum of Art entitled *Court and Cosmos: Art of the Seljuks*, she presented materials from the Penn Museum collection, especially those excavated at Rayy, the earlier version of present-day Tehran. In June 2016, she was reelected President, Board of Trustees of The Ukrainian Museum, New York City.



MACDONALD PUBLISHES ON URBAN TOPICS

John MacDonald, Professor of Criminology and Sociology, School of Arts and Sciences and Penny and Robert A. Fox Faculty Director, Fels Institute of Government, recently co-authored "Urban Blight Remediation as a Cost-Beneficial Solution to Firearm Violence" in the *American Journal of Public Health* and "Effect of Rail Transit on Crime: A Study of Los Angeles from 1988-2014" in *Journal of Quantitative Criminology*. Additionally, he submitted, with a team including Penn IUR Faculty Fellow Charles Branas, a MacArthur Foundation 100 & Change proposal to expand Philadelphia's greening program nationwide.



KAPUR CO-AUTHORS BOOK ON INDIANS IN AMERICA

Devesh Kapur co-authored with Sanjoy Chakravorty and Nirvikar Singh *The Other One Percent: Indians in America* (Oxford University Press, 2016), which examines the growth and success of the Indian-American community in the United States. A comprehensive, data-driven study, *The Other One Percent* offers an interdisciplinary account of the Indian immigrant experience.



MADDEN WRITES ON COMPENSATION AND ON NEIGHBORHOOD GROWTH

Janice Fanning Madden, Professor of Regional Science, Sociology, Urban Studies, and Real Estate, School of Arts and Sciences and The Wharton School, has co-authored two forthcoming articles: "Performance Pay, Performance-Support Bias, and Racial Pay Gaps among Stock Brokers" in *Industrial Relations* and "Foreign Born Population Concentration and Neighborhood Growth and Development within U.S. Metropolitan Areas" in *Urban Studies*.



LANDIS ADVISES PENNSYLVANIA LEGISLATURE

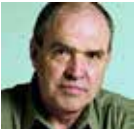
John Landis, Crossways Professor of City and Regional Planning, Department of City and Regional Planning, School of Design, testified in September to the Senate Majority Policy Committee of the Pennsylvania Legislature on demographic trends in Pennsylvania's five largest cities: Philadelphia, Pittsburgh, Allentown, Erie, and Reading. Landis spoke on nine sets of recent demographic and economic changes, discussing their effects on each city's demographic, economic, and social challenges.



PERNA PRESENTS ON AHEAD DATABASE

Laura Perna, James S. Riepe Professor and Chair, Division of Higher Education and Executive Director, Penn Alliance for Higher Education and Democracy (AHEAD), Graduate School of Education, has made several presentations on a searchable database of college promise programs that Penn AHEAD, which she directs, released in October; the database is available through the AHEAD website (www.ahead-penn.org).

Penn IUR Faculty Fellows News & Awards



RYBCZYNSKI WRITES ON HISTORY OF CHAIRS

Witold Rybczynski, Martin and Margy Meyerson Professor Emeritus of Urbanism, School of Design, published *Now I Sit Me Down: From Klismos to Plastic Chair: A Natural History* (Farrar, Straus and Giroux, 2016), a comprehensive history of the chair. Using historical accounts, personal experience, and his own drawn illustrations, Rybczynski traces the use and design of chairs throughout history.



SPOONER RESEARCHES SOCIAL HISTORY OF UNIVERSITY CITY

Brian Spooner, Professor of Anthropology, School of Arts and Sciences and Curator for Near Eastern Ethnology, Penn Museum, is leading, in his capacity as a board member of the University City Historical Society, a research project to produce a social history of Philadelphia's University City. Building on existing publications and material collected in University City's social hubs and with help from students, the project will draw from religious and minority communities (e.g. churches of various denominations, mosques, synagogues), schools (in collaboration with the Netter Center), and other nodes of social life. The objective is to show how social life in University City has changed with the neighborhood's evolution over the past century from residential suburb to integral part of a global city.



STEINER BECOMES DEAN OF SCHOOL OF DESIGN

Fritz Steiner, Dean and Paley Professor, School of Design, is Dean of the School of Design, having succeeded Marilyn Jordan Taylor. Steiner recently co-edited with George F. Thompson and Armando Carbonell *Nature and Cities: The Ecological Imperative in Urban Design and Planning* (Lincoln Institute of Land Policy, 2016). See page 3 for Penn IUR's interview with Steiner.



WACHTER APPOINTED TO TREASURY'S OFFICE OF FINANCIAL RESEARCH ADVISORY COMMITTEE

Susan Wachter, Sussman Professor and Professor of Real Estate and Finance, The Wharton School, edited two new books in The City in the 21st Century series published by University of Pennsylvania Press: *Principles of Housing Finance Reform* (co-edited with Joseph Tracy) and *Public Pensions and City Solvency* (see page 5 for more on both books). Wachter also spoke widely on housing finance, including presentations entitled "Why Cyclicity Matters to Access to Mortgage Credit: Has the Mortgage Pendulum Swung Too Far?" at the Rappaport Center for Law and Public Policy at Boston College in September; "Why Housing Cyclicity Matters" at the International Housing Finance Symposium by Canada Mortgage and Housing Corporation in October; and "Mortgage Market Design for Macrostability and Access" at the "Urbanization, Urban Housing, and Housing Finance in Indonesia" symposium in November. Wachter also organized and spoke at the "Rise of the City in China" conference in November (see page 17 for more on the conference). Wachter was also recently appointed to the Financial Research Advisory Committee of the Office of Financial Research of the U.S. Department of the Treasury, whose mission it is to monitor macroeconomic stability.



WELLER DIRECTS LANDSCAPE ARCHITECTURE FESTIVAL

Richard Weller, Martin and Margy Meyerson Chair of Urbanism, Professor and Chair of Landscape Architecture, School of Design, served as Creative Director for the 2016 Australian Festival of Landscape Architecture "Not in My Backyard," a four-day international conference in Canberra celebrating 50 years of landscape architecture in Australia. Additionally, he has recently published several pieces of writing and design, including a paper reflecting on the last 50 years of landscape architecture and an illustrated essay on western ideas of "nature" in *Cities and Nature* co-edited by Fritz Steiner. Weller also exhibited models and sketches in the MAAXI gallery in Rome with a team of landscape architecture students and wrote a Penn IUR brief on his research project the *Atlas for the End of the World*, a series of maps that depict conflicts between urban expansion and biodiversity. Finally, Weller headed the process of producing the "New Landscape Declaration" for the Landscape Architecture Foundation (LAF). The declaration sets out the core values of the profession of landscape architecture and landscape planning for the 21st century.

CONVENING

Brexit: Territorial Inequality and the Future of Nations

On September 20, Penn IUR, Perry World House (PWH), and The Department of Real Estate, The Wharton School hosted a lunchtime talk, “Brexit: Territorial Inequality and the Future of Nations,” featuring Andrés Rodríguez-Pose, Professor of Economic Geography, President of the Regional Science Association International, London School of Economics. Rodríguez-Pose was joined by panelists Joao Gomes, Howard Butcher III Professor of Finance, The Wharton School, and Gilles Duranton, Dean’s Chair in Real Estate Professor and Chair, Real Estate Department, The Wharton School. Penn IUR Co-director Susan Wachter moderated.

Rodríguez-Pose framed his discussion by introducing the set of theories that predict economic dynamism in cities. Citing Edward Glaeser, among others, Rodríguez-Pose explained that agglomeration and density lead cities to be richer, greener, healthier, and happier places to live and work. Cities such as London, Paris, and Tokyo drive growth, transforming the lives of those in the city as well as those throughout the country. He acknowledged that agglomeration and density produce negative externalities such as pollution, congestion, and a rising cost of living but he argued that such externalities are outweighed by the benefits of growth and prosperity.

Rodríguez-Pose then highlighted the importance of a “forgotten” externality that threatens to attack

the very basis of economic prosperity in cities: inequality. Using the United Kingdom as his primary example, he argued that increasing inter-territorial inequality—with London and the southern UK prospering while the northern and more rural regions have struggled—has led to a feeling among poorer and less-educated voters that they are being left behind; this dissatisfaction helps explain why these constituents were more likely than others to vote to leave the European Union. The irony of the Brexit vote, Rodríguez-Pose argued, is that leaving the EU will hurt residents of the northern and more rural regions most, as they are most vulnerable to a shrinking tax base and to a reduction of manufacturing jobs, the likely results of Brexit.

Rodríguez-Pose emphasized that this phenomenon—income inequality driving populism that ultimately undermines urban, regional, and national economic prosperity—is not unique to the UK. It can be seen in the United States, Thailand, and other countries where economic and political dissatisfaction is rising.

Rodríguez-Pose argued that places facing rising territorial inequality have six options: do nothing, encourage migration, bet on top cities, decentralize, increase social and welfare policies, or increase place-sensitive policies. None of these solutions are without problems, he asserted, but the sixth is the most promising since it combines

people- and place-based approaches to empower local stakeholders to take greater control of their futures.

Following Rodríguez-Pose’s presentation, Gomes and Duranton discussed and elaborated on his talk. Gomes agreed that inequality undoubtedly played a role in the outcome of the Brexit vote but argued that, regardless of the upcoming political separation, the UK’s vested interest in a close economic relationship with the EU will win out. Ultimately, he argued, the UK will remain economically strong.

Duranton expanded on the theme of economic polarization, drawing attention to the role of housing. By encouraging more affordable housing in areas where people want to live, cities and countries may be able to drive down inequality.

Following the presentations, Wachter moderated a discussion, providing a chance for Rodríguez-Pose to reply to the respondent’s comments and for audience members to ask questions. In his response, Rodríguez-Pose stressed the political nature of the Brexit decision and acknowledged that negotiations going forward will not be driven solely by economics.

A report can be found at the Penn IUR website at www.penniur.upenn.edu/events/brexit-territorial-inequality-and-the-future-of-nations.

INSTRUCTION

MUSA Brown Bag Lunch Series

In Fall 2016, Penn IUR hosted three Masters in Urban Spatial Analytics (MUSA) Brown Bag Lunches, where students heard from and met with practitioners in the field.

Grant Ervin, Deputy Geographic Information Officer, Enterprise Services, City of Philadelphia, and Tim Haynes, GIS Analyst, City of Philadelphia, headlined the first MUSA Brown Bag Lunch of the semester on September 30. Ervin and Hayes discussed their work on the recently launched Philadelphia Vacancy Model, which uses data from multiple city agencies and local utilities to calculate the probability that a building or lot is vacant. They explained how the model uses carefully selected indicators—proposed, tested (usually against aerial imagery), and verified for use in the model—to estimate whether a building

or lot is vacant. To demonstrate the model’s capabilities, they mapped a city neighborhood using color gradients to visualize the likelihood of vacancy for each building or lot.

On October 28, Laura Ancona, Senior Data Scientist of Web Analytics, Office of Open Data and Digital Transformation, City of Philadelphia discussed her efforts to create the interactive web map, “Parkadelphia,” which visualizes parking regulations in Philadelphia. The model integrates the many factors that affect parking in Philadelphia from residential permit districts, street meters, driveways, fire hydrants, Philadelphia Parking Authority parking lots, valet permit zones, to snow emergency routes, and others. Ancona described her use of open source platforms in developing the model, the steps she needed to take to verify data,

and the importance of presenting data in a way that is useful and accessible to a broad audience.

On December 9, Ken Steif (MUSA ’10), MUSA Program Director and Founder, Urban Spatial, explained the geospatial analysis techniques he used in investigating the impact of a vacant land greening program on housing and public safety outcomes in Cleveland, Ohio. This project used place-based administrative data to estimate the effect of a nonprofit-led, vacant land greening intervention on such outcomes as home prices, tax delinquency, building permits, burglaries, and aggravated and simple assaults.

See the Events Calendar on page 2 or visit the “Events” section of the Penn IUR website (www.penniur.upenn.edu) for the Spring 2017 MUSA Brown Bag Lunch Series schedule.

CONVENING

The Rise of the City in China

Scholars and practitioners from around the world presented research on the past, present, and future of urbanization in China at a conference co-hosted by Penn IUR and the Penn Wharton China Center with support from the Penn China Research and Engagement Fund and the China Real Estate Association. Held at the Penn Wharton China Center in Beijing on November 4, “The Rise of the City in China” drew over 70 academics and practitioners to presentations on sustainable urbanization in China, specifically on the application of historical and contemporary price indices in illuminating real estate trends and on the creation of sustainable urban finance mechanisms and urban design forms.

The day’s first panel, “Historical Price Indices: What Can We Learn from Them about the Development of Cities and Housing Prices,” placed the development of cities in China in international context. Presentations on historical research into housing prices and rents across very different geographic contexts showed similar findings, specifically that long-term, historical stability in housing prices has given way to rising prices in recent decades. Panelists suggested that recent price increases could be due to a slowdown in transportation innovation

coupled with the renewed importance of centrality for urban productivity.

Researchers presenting on the second panel, “The Contemporary Rise of the City: The Role of Price Indices,” agreed that prices have been rising over the past decade in Chinese cities; increases have been particularly rapid in first-tier cities, with more moderate increases in others. In discussing these findings, participants debated the strengths and weaknesses of various methodological innovations in real estate indices. Additionally, they considered research demonstrating the

role of price indices in developing local property tax systems, which could potentially serve as a sustainable source of public financing for Chinese cities.

The third panel shifted the discussion from sustainable urban finance to sustainable urban design. Entitled “Where to Build, What to Build, and How to Build: Design for Smart Cities,” the panel discussion focused on research into the development of new design guidelines in Chinese cities. These new guidelines—developed by the Chinese central government for incorporation

by cities into their regulations—emphasize walkable, mixed-use development, a change from the monolithic superblocks characteristic of urban development in China in recent decades.

The conference focused on identifying new forms of urban development and new mechanisms to finance investments in infrastructure and public goods, both of which will be necessary for continued economic and human development in China. It is the first event organized as part of a three-year Penn IUR initiative on the rise of the city in China supported by the Penn China Research and Engagement Fund.

RISE OF THE CITY IN CHINA: Cranes and buildings are silhouetted against a sunset in Beijing. Photo credit: Felix Andrews, Wikimedia Commons.



CONVENING

Urbanization and Housing in Indonesia

On November 7, Penn IUR Co-director Susan Wachter, Sussman Professor of Real Estate and Finance, The Wharton School took part in a symposium entitled “Urbanization, Urban Housing, and Housing Finance in Indonesia: Lessons Learned and Critical Thoughts to Move Forward.” Held in Jakarta, the symposium was organized by Janice Bellace, Samuel A. Blank Professor of Legal Studies and Business Ethics and Director, Tanoto Foundation, The Wharton School, and Komara Djaja, Head of Urban Studies, University of Indonesia, with support from the Tanoto Foundation. It gathered local and international academics, policymakers, and practitioners engaged in addressing the opportunities and challenges presented by rapid urbanization in Indonesia.

As the Asian country experiencing the fastest rate of urbanization in Asia, Indonesia is in need of major investments in housing and public goods. The symposium’s three panels and its keynote address—by Wahyu Utomo, Coordinating Minister for Economic Affairs—centered around the changes needed in order to provide housing and quality public goods to all urban residents.

The first panel, “Redefining Urban Landscape and Urbanization Trends,” emphasized the role of national and local governments in framing urban development and in addressing the development of informal settlements. Panelists discussed the need for national policy to support local governments and for urban policy to address environmental concerns, particularly those related to flooding.

The second panel, “Urbanization and Challenges for Housing Provision,” focused on informal settlements, with panelists calling for substantial investments in housing and infrastructure and discussing a number of initiatives that aim to improve the lives of residents of informal settlements.

Wachter spoke on the third panel, “Delivering Formal Housing for All,” on the topic of designing mortgage markets to enhance macrostability and access. Participants in this panel discussed how housing finance systems can influence housing conditions. They emphasized that different segments of the markets have different needs and discussed the government’s role in establishing the structure of long-term affordable and sustainable mortgage markets.

INSTRUCTION

GIS Day Draws Crowd

Penn GIS Day, sponsored by Penn IUR and the School of Design and held in conjunction with National GIS Day, focuses annually on real-world applications of geographic information systems. This year, speakers discussed the importance of open data in public and private organizations for driving innovation, drawing nearly 70 people to the November 16 event. Robert Cheetham, President and CEO, Azavea, gave the keynote address. Panelists included Stacey Mosley, Founder, FixList; Tom Shenk, Chief Data Officer, City of Chicago; and Andrew Turner, Director of Research and Development Center, ESRI.

In his keynote address, Cheetham discussed several emerging trends in the geospatial world: networked collaborations, through applications like “GitHub,” allow people to more easily build things together; new infrastructure, such as globally available, high-speed wireless internet, can lead to rapid innovation; a proliferation of web-based GIS tools allow more people to learn and use the technology; “light-weight programming” (a term he coined to describe the technologies that allow non-programmers to apply Python, SQL, and other programs to their spatial analysis) allows more people to develop technological innovations; improved open source data standards have facilitated the widespread use of open data tools; better user-centered design allows more people to understand and utilize technologies; and, an emphasis on ever-improving data science allows government and businesses to increase efficiency and innovation. He concluded with a plea to make open data the default.

Cheetham’s talk set the stage for panelists from government and business to discuss their use of open data. Mosley described how she left her job with the city of Philadelphia in 2015 to start FixList (fixlist.co), a web-based tool that lets people search Philadelphia’s open data to find investment opportunities and redevelopment potential across the city. She described the challenges of starting an open data -based business, characterizing the process as a series of “sprints and marathons.” To be successful, she said, an open data business requires reliable, accessible data as well as a data analysis product that enriches the current market. Referencing the trends Cheetham discussed, Mosley said that improvements in data standards benefit businesses like hers, but the growing number of startup organizations has also increased competition.

Next, Shenk showed the audience the City of Chicago’s new open data platform called OpenGrid (opengrid.io), a website and app that uses open data to let people search for information near them. He highlighted some of the service’s most important features, such as its access to an enormous quantity of data (noting that Chicago has 6 million rows of data on crime alone), its innovative live release of information to improve transparency, and its provision of both raw and contextualized data (which allows organizations to utilize the information based on their needs). Highlighting the platform’s predictive analytics capabilities, Shenk offered as an example the use of OpenGrid by the Chicago Health

Department: an OpenGrid algorithm is used to predict which restaurants are most likely to have the most serious types of food safety violations, which allows the Health Department to prioritize inspections appropriately.

Turner concluded the panel presentations by discussing public-private partnerships and, in particular, the evolution of information infrastructure that provides public data to government entities for policymaking. He explained that 95 percent of governments in the United States use ESRI to measure parcel data, so ESRI is prioritizing improvements in this area. He described, too, the efforts they are making to tap what he called the “cognitive surplus”—the free time individuals have that could be dedicated to collaborative work—to realize “community as a science,” in which improvements to public data gathering, accessibility, and analysis are crowdsourced.

Following the presentations, Ken Steif, MUSA Program Director, led a discussion on the future of open data, and Sean Kross, Programmer Analyst, Bloomberg School of Public Health, Johns Hopkins, led a data visualization and analysis workshop in which participants investigated building interactive maps and data dashboards using Shiny, the web application framework for R, a programming language and software environment for statistical computing and graphics. Approximately 20 people took part in the workshop.

Penn IUR Urban Doctoral Events

Penn IUR Urban Doctoral Poster Session and Penn IUR Faculty Fellow Roundtable February 16 | 4:00 – 5:30 PM

This event highlights the work of urban-focused doctoral students from across the University and will celebrate the research contributions of Penn IUR Faculty Fellows.

Penn IUR Urban Doctoral Symposium May 12 | 12:15 – 2:30 PM

Cosponsored with Penn’s Urban Studies program, this symposium celebrates the work of graduating urban-focused doctoral candidates. Graduates present and discuss their dissertation findings.

If you are a Penn Ph.D. student researching an urban topic and are interested in participating in these events, please contact Laura Barron at lbarron@upenn.edu.

RESEARCH

Assessing the Region's Decarbonization Options

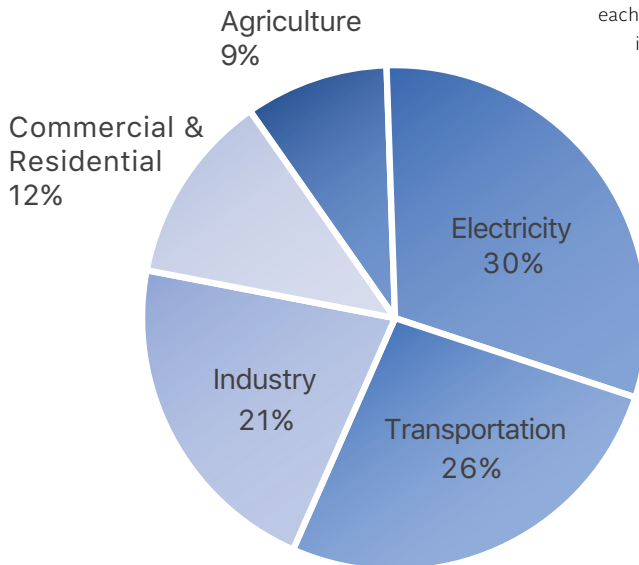
Penn IUR, with funding from the Kleinman Center for Energy Policy, is working with the Penn Center for Environmental Building & Design and the Penn

Ackoff Collaboratory for Advancement of the Systems Approach (ACASA) to identify different sets of policy scenarios (or “pathways”) available to the Philadelphia region to reduce greenhouse gas emissions. By examining different pathways—each of which will generate different impacts and different emissions profiles—the Optimal Pathways to Greenhouse Gas Reduction for the Philadelphia Region Based on Local Net-Benefits project seeks to enlighten regional debate on emissions policies.

Like many cities worldwide, Philadelphia has pledged aggressive reductions in greenhouse gas emissions: the city's 2012 Greenworks Vision set the goal of reducing carbon emissions by 80

percent by 2050. How this pledge will be met, and how the greater Philadelphia region will be involved in meeting it, is up for debate. To inform this debate, the Optimal Pathways project will outline realistic pathways the Philadelphia region can take to reduce emissions and—by creating a clear picture of the impacts of various decarbonization scenarios on economic, environmental, health, and other conditions—will enable stakeholders to make informed decisions and take action.

In the project's first phase, which came to a close in Fall 2016, the research team created a picture of the regional drivers of energy use and emissions, assessed baseline conditions, identified information gaps, developed a preliminary set of pathways, and selected cost-benefit calculation methods, models, and indicators. In the second phase of the project, which will start in the first quarter of 2017, researchers will run models to understand the impacts of various greenhouse gas reduction options on the region.



DIFFICULT DECISIONS: *The diagram to the left shows major EPA-identified sources of greenhouse gases by sector.*

CONVENING

Where Urbanization, Construction, and Migration Meet: A Talk by Sunil Kumar

On November 9, Penn IUR, in partnership with Perry World House (PWH) and the School of Design, hosted a talk on “The Urbanization-Construction-Migration Nexus in South Asia” with Sunil Kumar, former Dean of Graduate Studies and Lecturer, Department of Social Policy, London School of Economics and Political Science.

Kumar's talk focused on his research into how the demand for labor generated by large construction projects in cities in South Asia affects migration to cities and the resultant conditions for migrant laborers. His research involved mapping 1,000 projects across five cities in South Asia (Kabul, Afghanistan; Dhaka, Bangladesh; Chennai, India; Kathmandu, Nepal; and Lahore, Pakistan).

He described how large urban construction projects require more labor than a local labor market can supply (though only for a limited period

of time). To fill the temporary spike in demand, recruiters entice transient workers from rural areas to take temporary, contract jobs, paying them lower wages than local laborers would accept and often requiring that they live on site. The resulting situation is one in which housing is used to control labor; labor camps are often “invisible” and “hard to reach,” and collective organizing is impossible.

Kumar argued that that, as long as large-scale construction remains a major component of urbanization, the recruitment and employment of contract, migrant labor will remain and grow. Using the city of Chennai, India as an example, he argued that national policies that protect migrants should be adopted.

The talk was part of an ongoing series of events jointly hosted by Penn IUR and PWH on the theme of “Urbanization, Migration, and Demography.” For

upcoming events, see page 2 or visit the “Events” section of the Penn IUR website (www.penniu.edu).



BOOK TALK

Ammon Explores Postwar Culture of Clearance in Penn IUR Urban Book Talk

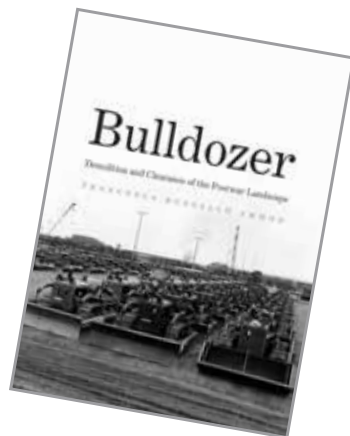
On September 14, Penn IUR and the School of Design cosponsored a book talk to launch the publication of *Bulldozer: Demolition and Clearance of the Postwar Landscape* by Penn IUR Faculty Fellow Francesca Russello Ammon, Assistant Professor of City and Regional Planning, School of Design. Using historical photographs and images of popular books and films from the 1950s through the 1970s, Ammon walked the audience through the rise and fall of the bulldozer as subject and symbol of the postwar efforts of destruction and reconstruction.

Ammon argued for reframing the post-World War II period as a period of both growth and large-scale destruction. According to Ammon, the landscape-altering “culture of clearance”—as symbolized by the bulldozer—was embraced as an indication of progress, with the practices of land clearance that historically followed the destruction of war mirrored in the postwar urban renewal practices that aimed to create a blank slate for rebirth.

Emphasizing World War II's role in the success and proliferation of the bulldozer, Ammon outlined how wartime advances in equipment technology, training of laborers, clearance practices, and cultural veneration of the bulldozer served as a catalyst for the bulldozer business to boom. She noted the role that popular culture—including children's books, films, and advertisements—played in attaching a sense of patriotism to the image of the bulldozer which glorified the widespread practices of demolition and clearance.

Ammon highlighted the issues this large-scale destruction caused, such as environmental degradation and displacement of minority groups. By the 1970s, she explained, mounting criticism of the bulldozer and the culture of clearance that it represented resulted in a shift towards a “culture of conservation.”

The event wrapped up with a number of questions from the audience on present-day clearance practices and the broader planning philosophy of the postwar period. *Bulldozer: Demolition and Clearance of the Postwar Landscape* is available from yalebooks.com/book/9780300200683/bulldozer.



LEADERSHIP

Penn IUR Co-director Joins International Sustainability Center Advisory Board

Penn IUR continues to support the adoption of energy efficient technologies across the Asia-Pacific by facilitating knowledge transfer technologies and best practices. Most recently, the Asia-Pacific Sustainable Energy Center (APSEC) invited Penn IUR Co-director Eugénie Birch to join its Advisory Board in order help APSEC define its program and optimize knowledge-sharing among Asia-Pacific Economic Cooperation (APEC) economies.

Created to help APEC meet its previously defined goal of reducing aggregated energy intensity by 45 percent from 2005 levels by 2035, APSEC promotes the development and dissemination of sustainable energy technologies and knowledge across the APEC region. APSEC was established in 2015 at Tianjin University, China.

One of APSEC's core strategies is to use free knowledge transfer throughout APEC to accelerate energy savings. Birch brings to her position on APSEC's Board extensive expertise in knowledge transfer and a history of working through Penn IUR with APEC on energy efficiency.

Through APEC's Energy Working Group, Penn IUR has provided information-sharing services as part of the Energy Smart Communities Initiative Knowledge Sharing Platform (ESCI-KSP). Penn IUR created the ESCI-KSP in 2011 and continues to manage its growth by curating the collection of best practices housed on the platform in the fields of energy smart transport, buildings, grids, and job development.

Penn IUR was invited to APSEC's Second Annual Asia-Pacific Energy Sustainability Development Forum in November 2016 both to join the Advisory Board and to participate as a forum speaker. Penn IUR project manager, Alon Abramson, who developed and continues to manage the ESCI-KSP, attended the forum held in Tianjin, China. Abramson shared an overview of the ESCI-KSP as well as information on other knowledge-sharing projects that Penn IUR has undertaken in recent years.



LEADERSHIP

Mellon H+U+D Initiative

The Penn Humanities, Urbanism, and Design (H+U+D) Initiative, funded by the Andrew Mellon Foundation, continued its work forging relationships among the humanities and design disciplines around the study of cities. In Fall 2016, the start of the Initiative's fourth year, H+U+D welcomed new Colloquium members and Junior Fellows, supported a screening on December 5 of Ben Kalina's film *Shored Up*, and sponsored a conversation with renowned American architect, planner, writer, and educator Denise Scott Brown. Penn IUR Co-director Eugénie Birch, Lawrence C. Nussdorf Professor of Urban Research and Education Professor and Chair of the Graduate Group, City and Regional Planning, School of Design, and Penn IUR Faculty Fellow David Brownlee, Frances Shapiro-Weitzenhoffer Professor and Chair of the Graduate Group, History of Art, Penn School of Arts and Sciences, co-direct the five-year Initiative.

Each year, the Initiative accepts a new group of faculty members from the humanities and design disciplines to participate in the Colloquium, a group of faculty from both design and humanities disciplines who meet regularly to share research, foster collaboration, and build relationships. Four new members joined the Colloquium this fall, four extended their membership, and two Junior Fellows (junior scholars who have completed their doctoral work in humanities or design disciplines, and whose work deals with cross-disciplinary study of the built environment) were welcomed as well, bringing Colloquium membership to twenty-five scholars from across the University. Colloquium members read and discussed Francesca

Ammon's book, *Bulldozer: Demolition and Clearance of the Postwar Landscape*, and toured Louis Kahn's Esherick House along with Robert Venturi's Mother's House on November 12 as part of a three-day, two-city *Complexity and Contradiction Symposium*, which Brownlee organized, that celebrated the 50th anniversary of Venturi's seminal book *Complexity and Contradiction in Architecture*.

Penn IUR cosponsored the annual H+U+D lecture with the History of Art Department, the Museum of Modern Art, Philadelphia Museum of Art, and the School of Design. Brown, this year's featured speaker, discussed on November 12 with William Michael Whittaker, Curator and Collection Manager, Penn Architectural Archives, her illustrious career working as a principal alongside Venturi, who is also her husband. She offered insights into the design process for Mother's House and the contribution of *Complexity and Contradiction* to the field of architecture.

Penn IUR Emerging Scholar Mary Rocco, H+U+D Project Manager and Penn IUR Post-doctoral Researcher, represented the work of the Initiative at the Associated Collegiate Schools of Planning (ACSP) annual meeting in Portland, Oregon. She joined other Mellon Initiative coordinators and principal investigators, including representatives from University of California-Berkeley and University of California-Los Angeles, where they discussed their projects and pedagogical contributions to the field of planning.

In Spring 2017, the Colloquium will host presentations by student recipients of H+U+D's research awards, sponsor a graduate seminar cross-listed with the Department of Landscape Architecture and French and Francophone Studies entitled "Paris and Philadelphia: Landscape and Literature of the 19th Century," sponsor a domestic city seminar entitled "The Wire and The City" for which students will study and visit the city of Baltimore, sponsor an international city seminar entitled "Paris Modern" for which students will visit Paris, and support the two Junior Fellows in teaching undergraduate courses.

For more information on the initiative and its programs visit www.humanitiesurbanismdesign.com.



ARCHITECTURE IN PHILADELPHIA: *The H+U+D faculty Colloquium visited Louis Kahn's Esherick House, below left, and Robert Venturi's Mother's House, below right. Photo credit: Smallbones, Wikimedia Commons. Denise Scott Brown, above right, talks with William Michael Whittaker, Curator and Collection Manager, Penn Architectural Archives, at the Complexity and Contradiction Symposium.*



CONVENING

Partnership with Philly Fed on Inclusive Growth

(CONTINUED FROM P. 1)

conference's keynote speech. She highlighted the critical role that leadership plays in addressing inequality in cities worldwide and introduced the OECD–Ford Foundation Inclusive Growth in Cities Initiative, a campaign to increase awareness of rising inequalities, to refocus the debate on concrete solutions, and to empower local governments in leading the transition towards more inclusive growth; central to the campaign is the creation of a network of “Champion Mayors” to promote inclusive growth in an increasingly global marketplace.

Over the course of the three-day convening, over 100 national and international speakers shared emerging strategies and innovative approaches to fostering equitable economic growth with a diverse audience of planners, elected officials, academics, bankers, community developers, foundation leaders, and students. Participants in breakout sessions identified potential strategies, based on empirical research, to improve opportunities for low-income people in terms of education, skills, jobs, and housing, focusing on topics such as where affordable housing should be built, connecting communities to capital through collaboration, addressing gentrification and neighborhood change in an equitable way, and preparing today's workforce for tomorrow's jobs, among others. Federal Reserve Presidents Patrick T. Harker, Dennis P. Lockhart, and Loretta J. Mester closed the conference with a talk about the Federal Reserve's role in transforming economies.

In addition to Penn IUR, conference cosponsors included NeighborWorks America, FHLBank Pittsburgh, Federal Reserve Bank of New York, Federal Reserve Bank of Minneapolis, Federal Reserve Bank of Richmond, Federal Reserve Bank of Atlanta, Federal Reserve Bank of Boston, Federal Reserve Bank of St. Louis, and Federal Reserve Bank of Cleveland.

Six joint Penn IUR/Federal Reserve Bank of Philadelphia working papers, written by leading researchers, and a framing paper, written by Penn IUR, the Federal Reserve Bank of Philadelphia, and the Federal Reserve Bank of Atlanta, were distributed at the conference. Available on the “Publications” section of the Penn IUR website (www.penniur.upenn.edu), the working papers include “Opportunity and Housing Access,” by Arthur Acolin, Ph.D. Student, University of Southern California, and Susan Wachter, Sussman Professor of Real Estate and Finance, The Wharton School; “Education Reform in the Post-NCLB Era: Lessons Learned for Transforming Urban Public Education,” by Matthew Steinberg, Assistant Professor, Penn Graduate School of Education, and Rand Quinn, Assistant Professor, Penn Graduate School of Education; “The Role of Skills and Jobs in Transforming Communities,” by Harry J. Holzer, SJ Professor of Public Policy, McCourt School of Public Policy, Georgetown University; “Producing Affordable Housing in Rising Markets: What Works?,” by Lance Freeman, Professor of Urban Planning, Graduate School

of Architecture, Planning, and Preservation, Columbia University, and Jenny Schuetz, Senior Economist, Division of Consumer and Community Affairs, Board of Governors, Federal Reserve System; and “Revamping Local and Regional Development through Place-based Strategies,” by Andrés Rodríguez-Pose and Callum Wilkie, London School of Economics. The papers will be published in the March 2017 special issue of the journal *Cityscape*.

The conference, working papers, and *Cityscape* special issue result from a longstanding partnership between Penn IUR and the Federal Reserve Bank of Philadelphia. Every other year, Penn IUR partners with the Federal Reserve Bank of Philadelphia to develop the research component of their biennial conference and to collaborate on a publication that continues the exploration of the conference's theme. Past conferences focused on the themes of “Bridging Growth and Opportunity” (2014), “Building Resilient Cities” (2012), “Rethink. Recover. Rebuild” (2010), and “How Does Place Matter?” (2008). These previous conference collaborations resulted in the publication of several books in the Penn Press/Penn IUR *The City in the 21st Century* book series including *Shared Prosperity in America's Communities* (2016), *Revitalizing American Cities* (2014), *The American Mortgage System: Crisis and Reform* (2011), and *Neighborhood and Life Chances: How Place Matters in Modern America* (2011).

INCLUSIVE GROWTH: Penn IUR Co-director Susan Wachter, below left, and Xavier de Souza Briggs, Vice President, Economic Opportunity and Markets, Ford Foundation, below right, speak at the Philadelphia Federal Reserve Bank's biennial conference.



PUBLICATION

Penn IUR Brief Examines Urban Development and Biodiversity



In Fall 2016, Penn IUR published *Atlas for the End of the World: Mapping that Recognizes Interdependence of People and Conservation*, by Penn IUR Faculty Fellow Richard Weller, Martin and Margy Meyerson Chair of Urbanism and Professor and Chair of Landscape Architecture, School of Design. The brief is based on the research project of the same name, which will be available online in early 2017, in which Weller maps areas of high biodiversity and expanding urban development to illustrate coming conflicts. The brief can be found on the “Publications” section of the Penn IUR website (www.penniur.upenn.edu).

ATLANTIC FOREST CONFLICTS: *Richard Weller's research illustrates conflicts between 2030 projected urban growth areas and threatened species habitat, as in the map at left of the Atlantic Forest area, which lies along the coast of Brazil and stretches into Paraguay and Argentina.*

FACULTY SPOTLIGHT

Frederick Steiner

(CONTINUED FROM P. 3)

BY INTEGRATING NATURE INTO URBAN DEVELOPMENT AND INFRASTRUCTURE. WHAT DO YOU SEE AS THE BIGGEST CHALLENGES TO REALIZING THIS APPROACH TO DEVELOPMENT? WHERE DO YOU SEE THE MOST PROMISE?

We have an incredible amount of information about our world; it's using that information wisely that's challenging. We know, for example, that coastal areas are vulnerable to sea level rise and to changing climate, and we know that flood plains fill up and put people at risk—but we still build in those areas. And, it's often in the places that are most vulnerable where the people who are the poorest, the oldest, the most vulnerable live; there's social vulnerability as well as an environmental vulnerability. We also have amazing technologies, such as geographic information systems, which give us an incredible ability to map and analyze our world. So we have lots of information, but I'm not sure we have the wisdom to apply it intelligently.

One of the things that excites me about *Nature and Cities* is that it has real examples of designs and plans that have been implemented or are being implemented. We pulled together the people that are on the front line—doing projects that exemplify the possibilities of an ecological approach. We also include major theorists, so the book includes both thinking and doing. I'm hopeful because of the kinds of examples and the strong ideas that are in the book.

5. ANOTHER PROJECT YOU'VE WORKED ON RECENTLY IS THE SUSTAINABLE SITES INITIATIVE, A CERTIFICATION SYSTEM FOR LANDSCAPE PROJECTS AND AN ACCREDITATION PROGRAM FOR LANDSCAPE PROFESSIONALS. WHAT ROLE HAVE YOU PLAYED IN THE DEVELOPMENT OF SITES?

The background of SITES is that the U.S. Green Building Council developed its LEED (Leadership in Energy and Environmental Design) standards, which really changed the building industry and building systems. Buildings were handled in a very sophisticated way with LEED, but a number of us felt that the outdoor environment was not addressed at the same level of sophistication. An early version of LEED had what was called a “sustainable sites” element; it said conserve water and use native plants, which are both very good things to do, but do not go very far. What we did with the SITES Initiative was essentially to design LEED for the outdoors; everything outside the building envelope is addressed with the Sustainable SITES Initiative.

In developing SITES, we worked with the Lady Bird Johnson Wildflower Center, which was part of the School of Architecture at the University of Texas at Austin and was founded by Lady Bird Johnson, the former First Lady, as well as the American Society of Landscape Architects (ASLA), and the U.S. Botanic Garden. Many other groups were involved, too (like the EPA, the General Service Administration, and

other organizations as well), but the three primary groups were the Lady Bird Johnson Wildflower Center, ASLA, and the U.S. Botanic Garden.

SITES is now administered by GBCI (which used to be called the Green Building Certification Institute and is now Green Business Certification, Inc). They oversee LEED and SITES, certifying projects and administering exams for accredited professionals.

6. THESE PROJECTS WE'VE JUST DISCUSSED INTEGRATE DESIGN, POLICY, AND ECOLOGY. WHAT DO YOU SEE AS THE VALUE OF WORKING IN A CROSS-DISCIPLINARY FASHION THROUGH CROSS-UNIVERSITY INITIATIVES LIKE PENN IUR?

This goes back to my early days at Penn, as McHarg's approach was very much based on working across disciplines. All my life, I've been interested in what ecologists call ecotones, places where more than one ecosystem come together. Ecotones usually have the richest diversity and life. Similarly, for me, the places where disciplines come together and overlap provide wonderful opportunities for discovery. This is especially important when addressing issues of urbanization, which requires the intelligence of many disciplines.

About Penn IUR

THE PENN INSTITUTE FOR URBAN RESEARCH (PENN IUR)

is dedicated to advancing cross-disciplinary urban-focused research, instruction, and civic engagement on issues relevant to cities around the world. 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. Penn IUR has a strong focus on research that informs the sustainable and inclusive twenty-first-century city. 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.

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Private Investor

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