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

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

This annual report details Penn IUR’s accomplishments from July 2016 through June 2017 and looks ahead to future initiatives.
A MESSAGE FROM

The Provost & Vice Provost for Research

The Penn Institute for Urban Research generates powerful new knowledge that makes a tangible impact on urban environments around the world. In doing so, it exemplifies the University’s core values of inclusion, innovation, and impact.

As inequality grows more extreme, the world warms, and demographics and technology evolve, it becomes ever more difficult to improve cities for everyone. These complicated and intertwined dynamics require collaborations across multiple disciplines. By working with all 12 schools at the University, Penn IUR creates the networks and connections essential to addressing these challenges. For example, this year’s event “Media, Communication, and the City” featured an interdisciplinary discussion among three Penn deans, representing Communication, Design, and Social Policy & Practice.

Penn IUR also works closely with other university-wide hubs to generate knowledge and connections; for example, this year’s collaboration with Perry World House in support of its inaugural research theme, “Global Shifts: Migration, Urbanization, and Demography.” Its essential mission of disseminating knowledge takes many forms—from books, journal articles, briefs, and special reports to digital forums and electronic publications—and expands into dozens of public events and expert symposia, including this year’s hosting of an exhibit at Habitat III, the United Nations Conference on Housing and Sustainable Urban Development in Quito, Ecuador.

Penn IUR also offers critical support for the work of urban-focused faculty and students. The Penn IUR Faculty Fellows network and Humanities+Urbanism+Design Initiative create hubs for cross-disciplinary conversations. The Undergraduate Urban Research Colloquium and Master of Urban Spatial Analytics, along with numerous opportunities for Ph.D. students to network and present their research, help train the next generations of urban scholars and practitioners.

In all these ways and many more, Penn IUR forms a vital part of the University’s commitment to inclusion, innovation, and impact. We congratulate Penn IUR on its accomplishments in 2016–2017 and look forward to another highly productive year ahead.
A MESSAGE FROM
Penn IUR’s Co-Directors & Advisory Board Chair

Over the 2016–2017 academic year, Penn IUR has strengthened its ongoing commitment to inform issues of critical importance to cities. The research initiatives you will read about in this report apply cutting-edge scholarship to real-world practice to advance sustainable and inclusive urban living.

From the Land for Public Good in Emerging Economies Initiative, which looks at the rapid urbanization challenges of the developing world, to the Innovation and Entrepreneurship in Higher Education Initiative, which examines the potential for university-led innovation, to Transforming Our Economies for Opportunity, which addresses how to build shared prosperity, we are examining broad policy as well as implementation.

To further foster urban practice and policy formation, Penn IUR brings together experts at Penn and around the world to exchange ideas and move forward on a host of wide-ranging urban issues. Through Penn IUR’s Expert Roundtable series, thought-leaders this year have tackled such topics as community building post-disaster, innovations in remote sensing for resilience and sustainability, pensions and urban fiscal stability, and urbanization in China and Indonesia. Through Penn IUR’s annual Urban Leadership Forum, we honored internationally renowned experts who are making cities inclusive and accessible. Through a unique lecture series, we provided rare insight into the life of a transformative mayor. In addition, Penn IUR has hosted 30 public lectures and panel discussions over the year exploring subjects as varied as city dynamics ranging from innovations in data and governance, rising sea levels and resiliency, the role of the new United Nation’s Sustainable Development Goals (SDGs), reforming the U.S. mortgage market, and climate change and forced migration.

To reach wide and diverse audiences and aid those making an impact across the globe, Penn IUR publishes research in long and short form, in scholarly journals and in popular pieces, and in print and digitally.

Behind all of the efforts highlighted in this report is the vibrant and energetic network of people who make up Penn IUR—from Penn IUR’s pathbreaking Faculty Fellows and Scholars and Penn’s knowledge-hungry students to Penn IUR’s supportive and knowledgeable consultative boards and generous donors. They make this work possible through their collaborative spirit, substantive contributions, and support of interdisciplinary urban research and solutions.

We look back at the past year with great appreciation for the contributions of our many associates and look forward to laying new ground with old and new partners.
Current Research Initiatives

Penn IUR’s research initiatives investigate how cities across the globe can become more sustainable, resilient, and equitable. Through these diverse initiatives, Penn IUR generates new scholarship and promotes the exchange of knowledge across disciplines, professions, and continents.
Land for Public Good in Emerging Economies

In many regions of the world, rapid urbanization has resulted in costly unplanned development characterized by the uncontrolled spread of crowded informal settlements in ecologically vulnerable areas. These places often lack access to basic infrastructure (transportation, electricity, water, sewage), urban services (education, health), and public space (parks and space for community facilities such as schools and health care centers).

These conditions have resulted in part from the failure of national governments to define appropriate spheres of activity for each level of government in urban development and to provide the enabling framework that properly distributes responsibilities. Additionally, many national governments have not planned for national infrastructure construction or for ecosystem protection.

Penn IUR’s Land for Public Good in Emerging Economies Initiative addresses this problem, wrestling with the complex governing, planning, and financing issues related to land use in rapidly urbanizing areas. The project explores methods of creating large, orderly, well-planned, and financing areas for anticipated urban development and for upgrading existing informal settlements. To this end, Penn IUR is identifying serviced land for anticipated urban development and for upgrading areas. The project explores methods of creating large, orderly, well-planned, and financing areas for anticipated urban development and for upgrading existing informal settlements. To this end, Penn IUR is identifying serviced land for anticipated urban development and for upgrading areas.

Beyond the RENEWW project, Penn IUR furthered work on the Land for Public Good in Emerging Economies Initiative through engagement with a broad variety of stakeholders at Habitat III. The Ford Foundation hosted the RENEWW project’s kick-off meeting on March 31, 2017.

A third, recently launched prong of this initiative is Penn IUR’s participation as a partner in the GEO Human Planet Initiative Spatial Modeling of Impact, Exposure and Access to Resources, led by the EU’s Joint Research Center. This partnership is forwarding the use of the recently launched Global Human Settlements Layer, an open source remote sensing tool that links real-time built environment and population data, to monitor the spatial dimensions of urban development worldwide. Penn IUR Co-Director Eugénie Birch with Penn IUR Affiliated Doctoral Student Chandan Dueskar and Penn IUR Faculty Fellow Kenneth Steif, Program Director, Master of Urban Spatial Analytics, School of Design tested its application in measuring the sprawl indicator to be used in monitoring the planning target of Goal 11 (“Make cities and human settlements inclusive, safe, resilient and sustainable”) in the UN’s 2030 Agenda for Sustainable Development whose results are published in The Atlas of the Human Planet 2016. Birch chairs the GEO Human Planet Initiative’s Working Group on New Global Settlement Data and Civil Society.

Penn IUR’s Land for Public Good in Emerging Economies Initiative wrestles with the complex governing, planning, and financing issues related to land use in rapidly urbanizing areas.

For more information, visit: ghsl.jrc.ec.europa.eu/ghsl2017Overview.php

Additionally, Penn IUR Co-Director Susan Wachter took part in two workshops related to this initiative: a conference entitled “The Rise of the City in China,” held at the Penn Wharton China Center, Beijing on November 4, 2016, and a symposium entitled “Urbanization, Urban Housing, and Housing Finance in Indonesia: Lessons Learned and Critical Thoughts to Move Forward” held in Jakarta on November 7, 2016. The conference in Beijing focused on new design and financing mechanisms for urban development in China; the symposium in Jakarta addressed the housing opportunities and challenges presented by urbanization in Indonesia, a country experiencing the fastest rate of urbanization in Asia. (For more on these events, see pages 54–55.)

Advisory Board member Robert Stewart (W ’88) has provided support for this initiative. This initiative is enriched by Penn IUR’s partnership with Perry World House on its inaugural research theme “Global Shifts: Urbanization, Migration, and Demography,” which is led by PWH Director and Penn IUR Faculty Fellow William Burke-White and Program Manager Katelyn Leader. (See page 55 for more on this partnership.)
Penn IUR is committed to promoting fiscally responsible and sustainable urban economies. In 2016–2017, Penn IUR’s work on this topic centered around the looming problem of underfunded state and local pensions, which undermines the fiscal solvency of a number of the nation’s subnational governments. Through its publications and convenings, Penn IUR has emerged as an important contributor to the dialogue on this topic. Over the past year, Penn IUR continued its leadership role by convening public and private officials, scholars, and researchers for public convenings as well as high-level roundtables.

On November 10, 2016, Penn IUR hosted the symposium “Public Pensions and City Solvency,” which featured two panel discussions with experts from academia, industry, and government and a talk by Richard Ravitch, former Lieutenant Governor, State of New York. The event served as the book launch for Public Pensions and City Solvency (University of Pennsylvania Press, 2016) edited by Susan Wachter. (See page 66 for more on this event.)

In the spring of 2017, Penn IUR launched the next stage of its investigation into the underfunded pensions problem by organizing a series of exploratory roundtables in New York City. These meetings and co-edited a research volume jointly with the Fed. Under the leadership of Penn IUR Co-Director Susan Wachter, Penn IUR drew together prominent thinkers on this subject who presented at the Philadelphia Fed conference, held in September 2016, “Reinventing Our Communities: Transforming Our Economies.” (See page 61 for more on the conference.) Additionally, Penn IUR worked with the Philadelphia Fed to develop a series of Penn IUR / Federal Reserve Bank of Philadelphia working papers, later published in a special issue of the journal Cityscape. (See page 29 for details on the publication and page 42 for an excerpt from Cityscape.)

**Urban Fiscal Stability and Sustainability Going Forward**

Penn IUR promotes scholarship and discussion related to housing affordability and housing finance systems both in the United States and abroad. In 2016–2017, Penn IUR sponsored a book launch for Principles of Housing Finance Reform entitled “The U.S. Mortgage Market: What Does the Future Hold for Credit Risk and Access?” This event featured a public panel discussion with leading experts on the nation’s mortgage system, including Barry Zigas, Director of Housing, Consumer Federation of America; Greg Boester, Managing Director, JPMorgan; Gerron Levi, Director of Policy and Government Affairs, National Community Reinvestment Coalition; Peter Carroll, Executive Vice President, Mortgage Policy and Counterparty Relations, Quicken Loans; Penn IUR Co-Director Susan Wachter moderated the discussion.

On April 10, 2017, Penn IUR sponsored a book launch for Transforming Our Economies: Modernizing America’s Housing Finance System and participated at a high level in an international conference cosponsored the “Workshop on the Appropriate Government Role in U.S. Mortgage Markets.” This event featured talks by Ed DeMarco, Milken Institute, who spoke on “Housing Finance Reform: Agreement Trumps Disagreement” and Robert Shiller, Yale University, who gave a talk entitled “Narrative Economics and the Housing Market.” Eight panel discussions covered topics including financial stability and mortgage markets, government credit pricing, the role of private capital, secondary mortgage markets, government credit pricing, the role of private capital, secondary mortgage markets, and those with fewer. In 2016–2017, Penn IUR undertook research on initiatives to transform urban economies in order to better achieve inclusive growth through its ongoing partnership with the Federal Reserve Bank of Philadelphia (Philadelphia Fed). Penn IUR developed the research component of the Philadelphia Fed’s biennial conference on the topic and co-edited a research volume jointly with the Fed.

**Housing Affordability and Financing Systems**

Economic inequality in the United States has been growing and, with it, the geographic segregation between places with more economic opportunities and those with fewer. In 2016–2017, Penn IUR undertook research on initiatives to transform urban economies in order to better achieve inclusive growth through its ongoing partnership with the Federal Reserve Bank of Philadelphia (Philadelphia Fed). Penn IUR developed the research component of the Philadelphia Fed’s biennial conference on the topic and co-edited a research volume jointly with the Fed.

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Penn IUR promotes scholarship and discussion related to housing affordability and housing finance systems both in the United States and abroad. In 2016–2017, Penn IUR published a book and organized multiple public events on the topic of America’s housing finance system and participated at a high level in an international conference on housing.

The Federal Reserve Bank of New York is a key partner with Penn IUR in investigations into America’s housing finance system. Principles of Housing Finance Reform (University of Pennsylvania Press, 2016), edited by Penn IUR Co-Director Susan Wachter and Joseph Tracy, Executive Vice President and Special Adviser to the President of the Federal Reserve Bank of New York, and published by Penn Press in the Penn IUR / Penn Press The City in the 21st Century book series, offers a framework for modernizing the America’s housing finance system. (For more on this book, see page 20.)

On April 16, 2017, Penn IUR sponsored a book launch for Principles of Housing Finance Reform entitled “The U.S. Mortgage Market: What Does the Future Hold for Credit Risk and Access?” This event featured a public panel discussion with leading experts on the nation’s mortgage system, including Barry Zigas, Director of Housing, Consumer Federation of America; Greg Boester, Managing Director, JPMorgan; Gerron Levi, Director of Policy and Government Affairs, National Community Reinvestment Coalition; Peter Carroll, Executive Vice President, Mortgage Policy and Counterparty Relations, Quicken Loans; Penn IUR Co-Director Susan Wachter moderated the discussion.

On April 27 and 28, Penn IUR, the Federal Reserve Bank of New York, and others cosponsored the “Workshop on the Appropriate Government Role in U.S. Mortgage Markets.” This event featured talks by Ed DeMarco, Milken Institute, who spoke on “Housing Finance Reform: Agreement Trumps Disagreement” and Robert Shiller, Yale University, who gave a talk entitled “Narrative Economics and the Housing Market.” Eight panel discussions covered topics including financial stability and mortgage markets, government credit pricing, the role of private capital, secondary mortgage markets, mortgage finance innovations and government’s role, mortgage market interventions and economic growth, the role of government in supporting affordable housing, and mortgage access and sustainable economic activity.
Innovation and Entrepreneurship in Higher Education

Innovation and entrepreneurship are the engines of prosperity in the 21st century economy, with colleges and universities playing a lead role in creating the networks and environments that engender such dynamism. Recognizing this, the Connecticut legislature initiated a $10 million fund to support collaborative work in facilitating entrepreneurship and innovation among the state’s institutions of higher education to be managed by CTNext, the state agency that fosters growth in startup and early-stage businesses and links startups to promote greater business activity. The legislature mandated the development of a strategic plan to guide the dispersal of funds. At the inaugural meeting of the state’s 38 college and university presidents hosted by Peter Salovey, President, Yale University, the leaders created the Working Group on Entrepreneurship and Innovation chaired by Joanne Berger-Sweeney, President, Trinity College, and Mark Ojakian, President, Connecticut State College and University System, to undertake the plan. Subsequently, the Working Group, familiar with Penn IUR’s work on anchor institutions and innovation, retained Penn IUR to assist in the plan’s development. Between December 2016 and April 2017, Penn IUR’s Co-Director Eugénie Birch and Project Manager Amanda Lloyd led this project, interviewing administrators and faculty at more than 20 universities around the state to discuss their programs, initiatives, and goals for supporting entrepreneurship and innovation at their institutions. Concurrently, Birch moderated four Working Group meetings to assess the scope and scale of programs, opportunities, and risks; examine higher education’s collective capacity to catalyze a thriving innovative economy and incubate an entrepreneurial workforce across the state; establish a strategic roadmap to promote collaboration and cooperation among the state’s colleges and universities; and identify funding priorities for state-funded higher education entrepreneurship grants. Penn IUR drafted the Working Group’s plan, Entrepreneurship & Innovation in Connecticut’s Higher Education System: A Catalytic Roadmap for Higher Education Collaboration. (To read an excerpt of the plan, see page 40.)

The plan assesses the state’s current assets and opportunities in relation to innovation and entrepreneurship in higher education, offers a set of recommendations to strengthen the innovation ecosystem across its colleges and universities and lists criteria for evaluating grant applications. It calls for continued support for building the networks and relationships that emerged during the planning process, the creation of regional hubs to share educational, mentoring, legal, and business advice for start-ups, and the development of a state resource portal.

The plan assesses the state’s current assets and opportunities in relation to innovation and entrepreneurship in higher education, offers a set of recommendations to strengthen the innovation ecosystem across its colleges and universities and lists criteria for evaluating grant applications. It calls for continued support for building the networks and relationships that emerged during the planning process, the creation of regional hubs to share educational, mentoring, legal, and business advice for start-ups, and the development of a state resource portal. Sweeney, Ojakian, and Birch presented the plan to the CTNext board that is currently implementing it.

Supporting Sustainable Energy Across the Asia Pacific

In 2016–2017, Penn IUR continued to promote the adoption of energy efficient technologies and practices across the Asia Pacific by facilitating knowledge transfer and reviewing best practices.

The core of this work is Penn IUR’s ongoing support for the Energy Smart Communities Initiative (ESCI), established in 2010 by U.S. President Obama and Japanese Prime Minister Kan to help Asia Pacific Economic Cooperation (APEC) economies reduce the region’s energy intensity (energy consumed per gross domestic product). Managed by APEC’s Energy Working Group (APEC-EWG), the initiative’s preeminent project is the ESCI Knowledge Sharing Platform (ESCI-KSP), a web-based knowledge-sharing platform that highlights best practices and demonstration projects in energy efficient urban development. Penn IUR, in partnership with the Taiwan Institute for Economic Research (TIER) and with funding from the National Development Council (NDC) of Taiwan, developed the ESCI-KSP in 2011 and continues to work with TIER to collect best practices for inclusion in the database and to present the latest achievements of the ESCI-KSP at APEC-EWG meetings. (For more on the ESCI-KSP, see page 31.)

Penn IUR also worked with TIER to initiate and organize a recognition program, now in its third year. The ESCI Best Practices Awards highlights exceptional demonstrations of best practices in energy efficiency across ESCI’s five content areas (transport, buildings, grids, jobs and consumers, and low-carbon model towns). The APEC Energy Working Group honored the award winners selected from among nearly 200 applicants by a panel of judges led by Penn IUR Co-Director Eugénie Birch at its 53rd meeting convened in Singapore in April 2017.

Awardees included Chinese Taipei’s innovative use of information and communication technology to address severe congestion in their Smart Park innovation district in the Transport category and Japan’s Panahome Smart City development in Shioashiya category for deploying energy efficient homes along with onsite renewable generation for an entire community in the Smart Buildings category. Penn IUR’s experience with the ESCI-KSP has led to a new project: conducting a gaps analysis of APEC-sponsored energy efficiency projects. Penn IUR will scrutinize the nearly 200 projects funded by APEC since 1993, contextualize the findings, and recommend priorities for future funding by illustrating current gaps. This project will be completed in November 2017.

Further deepening Penn IUR’s work with APEC, 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 APEC economies. Created in 2015 to help APEC meet its previously defined goal of reducing aggregated energy intensity by 45 percent from 2005 levels by 2035, APSEC directly supports the development and dissemination of sustainable energy technologies and knowledge across the APEC region. Where the ESCI-KSP is focused on capturing and distributing knowledge of technologies and practices, APSEC is working to deploy these same technologies and practices in the APEC region and, in doing so, to capture more detailed case studies of successful energy smart projects. In September 2017, Penn IUR and APSEC will sign a memorandum of understanding outlining areas for collaboration.
Disseminating research is central to Penn IUR’s mission and a core part of all of its activities.

The Institute disseminates research in print and online publications, including The City in the 21st Century book series published by the University of Pennsylvania Press, the SSRN Urban Research eJournal, Urban Link, Penn IUR briefs, and a variety of special reports and articles. Another key way in which Penn IUR disseminates research is by creating spaces for knowledge transfer. In 2016–2017, Penn IUR continued work on the Global Urban Commons and the ESCI-Knowledge Sharing Platform (ESCI-KSP), two online spaces that Penn IUR developed in earlier years, and created an exhibition at Habitat III, the world’s preeminent urban conference, to publicize urban research undertaken at Penn and create a space for informal knowledge-sharing among researchers and practitioners.
The City in the 21st Century Book Series

Penn IUR’s Co-Directors Eugénie Birch and Susan Wachter edit The City in the 21st Century book series published by University of Pennsylvania Press, which now includes 35 volumes and over a million copies sold. This series explores the depth and breadth of contemporary urban-focused scholarship across a wide range of disciplines including anthropology, planning, sociology, economics, architecture, urban design, politics, and history. The series represents a cross-section of research and experience on the city across the developed and developing world.

In 2016–2017, Penn Press released three new volumes in the series: Principles of Housing Finance Reform, edited by Susan Wachter and Joseph Tracy; Governing the Fragmented Metropolis, by Christina Rosan; and Immigration and Metropolitan Revitalization in the United States, edited by Domenic Vitello and Thomas Sugrue.

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 within this framework, including reforms to the role of the GSEs in the single and 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, posting 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—are somewhere in between. She argues 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.

Immigration and Metropolitan Revitalization in the United States argues for the importance of immigration in renewing American cities and metropolitan regions. The authors examine the dynamics of immigrant-led urban revitalization from a range of social science perspectives, with sections focusing on immigrants’ influence on population and economic growth as well as chapters that highlight revitalization in working-class and poor communities.
The City in the 21st Century book series includes the following titles. More are in development.

- EDWARD J. BLANKEN, ANNA MARIE HARRIS, with NICK KITZIS, JENNIFER WHITSEL, and ROBERT FARRIS THOMPSON
  - *Chaos for New Orleans: Hard, Gray, and Empty* (HC 2016)
  - *My Storm: Managing the Recovery of a Katrina-Devastated City* (HC 2016)

- EDWARD J. BLANKEN and SUSAN M. WACHTER, editors
  - *Retailing White Snow After Disaster* (EB 2013; HC 2014)

- PETER HENRIED-BROWN

- EDWARD J. BLANKEN and SUSAN M. WACHTER, editors

- EDWARD J. BLANKEN and SUSAN M. WACHTER, editors
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Penn IUR’s Urban Research eJournal, published twice weekly through the Social Science Research Network (SSRN), gathers and distributes new research that addresses the governance, policy, economics, design, and social issues that surround global urbanization. The eJournal highlights the urban-focused research of scholars worldwide. Edited by Penn IUR Co-Directors Eugénie Birch and Susan Wachter, and overseen by an advisory board of preeminent urban scholars, it accepts abstracts, working papers, and recently published articles. A sample of recently published articles includes “Government Quality and the Economic Returns of Transport Infrastructure Investment in European Regions” by Riccardo Crescenzi, Marco Di Cataldo and Andrés Rodríguez-Pose; “The Impacts of Neighborhoods on Intergenerational Mobility II: County-Level Estimates,” by Raj Chetty and Nathaniel Hendren; and “Between the Market and the State: Financing and Servicing Self-Sustaining Sanitation Chains in Informal Settlements in East African Cities,” by Aime Tsinda and Pamela Abbott. Since its inception in 2012, Urban Research eJournal articles have been downloaded more than 623,000 times.
Urban Link

Penn IUR’s Urban Link is Penn IUR’s monthly online publication that features expert commentary on urban topics and highlights Penn IUR news and events. Launched in November 2012, Urban Link has 5,783 subscribers. Penn IUR’s Faculty Fellows and Scholars author Urban Link’s articles, allowing Penn IUR to disseminate the groundbreaking scholarship of its associates. This year, Penn IUR Faculty Fellows and other scholars and practitioners contributed the following features:

ROBERT INMAN AND SUSAN WACHTER
“Pension Liabilities: A Call for Transparency.” August 2016.

MATTHEW STEINBERG AND RAND QUINN

RICHARD WELLER

REFLECTIONS ON HABITAT III: A HOPEFUL FUTURE FOR SUSTAINABLE URBAN DEVELOPMENT

JOSEPH TRACY AND SUSAN WACHTER

EXPERT VOICES 2017: AMERICA’S URBAN INFRASTRUCTURE

ARTHUR ACOLIN AND SUSAN WACHTER

JOHN FANTUZZO, KATIE BARGHAUS, AND WHITNEY LEBEOUF

RICHARD FLORIDA

NEW IDEAS IN URBAN RESEARCH 2017: RESEARCH QUESTIONS AND FINDINGS FROM EMERGING SCHOLARS

SPOTLIGHT ON:
January 2017 Urban Link
Every year, Penn IUR queries its leading experts and scholars on an issue that will be important in the upcoming year and publishes their responses in the first Urban Link issue of the year. This year, in response to the Trump campaign’s vow to develop “the next generation” of American infrastructure, Penn IUR asked: In your view, what should the United States do about urban infrastructure? This feature attracted the attention of several news outlets including NPR, Planetizen, and Penn Current.

To read responses from these urban experts, visit the “Publications” section of the Penn IUR website: penniur.upenn.edu/publications
Penn IUR Briefs

The Penn IUR Briefs series brings leading scholarship on urban issues to a broad audience. Authors in this series distill research findings, present policy ideas, offer opinions, or explore lessons learned from a particular project. In 2016–2017, Richard Weller contributed “Atlas for the End of the World: Mapping that Recognizes Interdependence of People and Conservation” (October 2016) and Arthur Acolin and Susan Wachter wrote “Housing and Opportunity” (February 2017). (Excerpts from both of these briefs are included in this report beginning on page 32.)

In “Atlas for the End of the World: Mapping that Recognizes Interdependence of People and Conservation,” Weller maps existing and anticipated conflicts between biologically diverse habitat and human development. He outlines currently protected areas in the ecoregions within the world’s biodiversity hotspots and calculates how much more needs to be set aside to meet UN-agreed targets set by the Convention on Biological Diversity. In addition, he anticipates the conflicts between projected urban growth and biologically diverse habitat. Finally, he argues that public and private decision-makers need maps that intertwine human and biological conservation as sources of information for their work. The Brief summarizes Weller’s three-year research project.

In “Housing and Opportunity,” Acolin and Wachter discuss the relationship between employment opportunities and housing access. This Brief summarizes a longer working paper they wrote for the Federal Reserve Bank of Philadelphia. In it, they review the relationship between housing affordability and household mobility and discuss the long-term implications of these findings for intergenerational welfare. They argue that countering growing spatial inequality of opportunity requires space-based solutions.

Penn IUR Briefs can be found on the “Publications” section of the Penn IUR website at: penniur.upenn.edu/publications

Special Reports and Journal Articles

Penn IUR publishes special reports, papers, supports research for journal articles, and disseminates the output widely through its website and other means. Highlights from 2016–2017 include “Habitat III: The Quest for Sustainable Urban Development” by Penn IUR Co-Director Eugénie Birch and Jane Vincent, Regional Administrator Region III, U.S. Department of Housing and Urban Development and, in a follow-up assessment, Eugénie Birch’s “A Midterm Report: Will Habitat III Make a Difference to the World’s Urban Development?” In a separate project, Penn IUR Co-Director Susan Wachter co-edited with William Lambe, Senior Community and Economic Development Advisor, Federal Reserve Bank of Atlanta, and Theresa Singleton, Vice President and Community Affairs Officer, Federal Reserve Bank of Atlanta, a special issue of Cityscape, which grew out of a joint Penn IUR / Federal Reserve Bank of Philadelphia working paper series. Originally published in Cascadia, the journal of the Federal Reserve Bank of Philadelphia in Fall 2016, Birch and Vincent’s “Habitat III: The Quest for Sustainable Urban Development” puts the Habitat III conference in historical and political context, reviewing in particular the emphasis on the integration of civil society stakeholders in the conference preparations the focus on implementation as the conference’s goal. Birch’s “A Midterm Report: Will Habitat III Make a Difference to the World’s Urban Development?” was published in the July 2016 issue of the Journal of the American Planning Association. In it, she argues that clear messaging and strong civic engagement are essential to the successful implementation of the New Urban Agenda, the outcome document of the Habitat III conference. Further, she called on city and regional planners worldwide to take on an advocacy role in supporting the New Urban Agenda’s three key thrusts: fit-for-purpose governance, management and planning of urban spatial development, and implementation including knowledge sharing, capacity-building, and finance. (See page 48 for an excerpt from the article.)

The special issue of Cityscape (March 2017) highlighted strategies to create places of opportunity, develop the local workforce for a global marketplace, and provide wealth and opportunity inclusively to all segments of the population. Articles included an introduction by guest editors Susan Wachter, Walter Lambe, and Theresa Singleton and five papers by leading researchers: Arthur Acolin and Susan Wachter, “Opportunity and Housing Access;” Andrés Rodríguez-Pose and Callum Wilkie, “Revamping Local and Regional Development Through Place-Based Strategies;” Harry J. Holzer, “The Role of Skills and Jobs in Transforming Communities;” Matthew Steinberg and Rand Quinn, “Education Reform in the Post-NCLB Era: Lessons Learned for Transforming Urban Public Education;” and Lance Freeman and Jenny Schuetz, “Producing Affordable Housing in Rising Markets: What Works?” (See page 42 for an excerpt from Steinberg and Quinn.)
Global Urban Commons

Penn IUR hosts and manages the Global Urban Commons (The Commons), a publicly accessible online directory of urban research centers from around the world, a source for information about global urban research and a home base for the General Assembly of Partners (GAP), the multi-stakeholder engagement platform created to support the Habitat III conference and the implementation of the New Urban Agenda. Created in 2004 with seed funding from the University of Pennsylvania Press and the Rockefeller Foundation, Penn IUR continued to manage this site’s searchable directory of urban research organizations and resources related to global urbanization. As a communications arm for the General Assembly of Partners (GAP), the site documents the work of 16 separate partner groups and provides a directory of its more than 2,000 organizational members.

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For more information, visit: globalurbancommons.org

Energy Smart Communities Initiative-Knowledge Sharing Platform

The Energy Smart Communities Initiative-Knowledge Sharing Platform (ESCI-KSP), a web-based knowledge-sharing platform, highlights best practices and demonstration projects in energy efficient urban development. It is the premier project of ESCI, established in 2010 by U.S. President Obama and Japanese Prime Minister Kan to help Asia Pacific Economic Cooperation (APEC) economies reduce the region’s energy intensity (energy consumed per gross domestic product) by 45% of 2005 levels by 2035 and is managed by APEC’s Energy Working Group (APEC-EWG). Penn IUR, in partnership with the Taiwan Institute for Economic Research (TIER) and with funding from the National Development Council (NDC) of Taiwan, developed the ESCI-KSP in 2011 and continues to work with TIER to collect best practices for inclusion in the database. In 2016–2017, Penn IUR added 150 new case studies to the ESCI-KSP, focusing especially on progress being made by ESCI-KSP member economies in APEC in the ESCI-KSP’s five content areas (transport, buildings, grids, jobs, and low-carbon model towns).

For more information, visit: esci-ksp.org

Habitat III Exhibition: Knowledge for an Urbanizing World

In addition to online platforms that translate and disseminate research, Penn IUR creates real-world platforms for the exchange of research and ideas. This year, as part of Penn IUR’s engagement at Habitat III, Penn IUR mounted an exhibit showcasing urban-focused research and publications undertaken at Penn IUR, by faculty across the university, and by Perry World House (PWH) and the Kleinman Center for Energy Policy. The projects and publications shared at the exhibition booth aimed to not only generate new 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 to Habitat III, 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, PWH; Daniel Altara Cohen, Assistant Professor, Sociology, School of Arts and Sciences; David Souveraine, 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 Faculty Director, Kleinman Center for Energy Policy; Wendell Pritchett, Provost and 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. (For details on the doctoral student delegation to Habitat III, see page 82.)

The Habitat III conference attracted more than 30,000 attendees, including diplomats from UN member states, along with mayors and a wide range of stakeholders.

For more information, visit: pennisu.upenn.edu/habitat3
Penn IUR disseminates knowledge through a variety of publications: books, briefs, journal articles, reports, and online publications. Excerpts from some of the publications created over the 2016–2017 year follow.
The more that a case can be made that metropolitan planning agencies are working with communities rather than against them, the more likely it will be to create political support for empowering these institutions so they can influence regional development.
Immigration and Metropolitan Revitalization in the United States

Domenic Vitiello and Thomas Sugrue

In less than a generation, the dominant image of American cities has transformed from urban crisis to revitalization. Poverty, violence, job losses, and distressed schools still make headlines. But large parts of central cities and older suburbs are attracting new residents and substantial capital investment. The U.S. Census Bureau’s American Community Survey found that after decades of population loss, most of America’s large old industrial cities, from Philadelphia to Milwaukee, grew between 2010 and 2014, as did forty-nine of the fifty-one largest cities in the nation overall. Even the two that lost population, Detroit and Cleveland, have been the focus of intense planning and investments in revitalization and have seen some neighborhoods grow.

Immigration and immigrants belong at the center of this story of metropolitan revitalization in the United States. However, in most accounts of urban and suburban revitalization, native-born empty nesters, their millennial children, and other well-educated professionals of the “creative class” are the agents of change. They “bring the city back” by attracting outside investors, patronizing galleries, restaurants, and high-end shops; rehabilitating historic properties; and developing new houses on vacant lots. Yet in the past decade, policy makers and scholars across the United States have come to understand that immigrants are driving metropolitan revitalization at least as much as these actors.

Urban scholars and policy makers have only recently begun considering the role of immigration in the recent transformations of metropolitan America, including population shifts, economic reinvestment and growth, and housing markets. In a survey of urban scholars taken in 1999, immigration did not make the list of top ten forces that had shaped U.S. cities in the twentieth century. Segregation and discrimination, white flight, suburban sprawl, and other causes of urban crisis dominated the discussion. Nor did immigration make their list of forces likely to influence cities most profoundly in the twenty-first century, though they did cite integration and diversity of urban neighborhoods. Yet, as demographer Dowell Myers argued in response, immigration has been a “fundamental force” determining the fortunes of American cities in the past, present, and future. Not only did mass immigration fuel the birth of metropolitan America in the late nineteenth and early twentieth centuries, but the closing of U.S. borders between the 1920s and 1960s deprived cities of replacement population for the masses who moved out. Immigration’s absence thus played a critical, if silent and invisible, part in the urban crisis. It was no accident that cities began to revive in the late twentieth century, after the Immigration and Naturalization Act of 1965 reopened the borders, asserted Myers. And as the baby boom generation ages and Americans have fewer children, arguably no force will define the future of the United States cities and suburbs more than immigration.

Immigration has gained prominence not only in our understanding of how metropolitan revitalization has happened but also in cities’ pursuit of growth. City halls and economic development boosters in big and small cities from Philadelphia to Dayton, Ohio, and Utica, New York, have turned to immigrant and refugee recruitment and integration as strategies for repopulation and economic development. They have recruited foreign companies and high-skilled workers, implemented language access and multicultural programs, and targeted support to immigrant small business owners and ethnic community development organizations. Some suburbs, too, have supported immigrant merchants and welcoming practices in schools, libraries, and law enforcement.

The divergent responses to immigration by different municipalities reflect an increasingly contested set of hopes and fears about the local benefits and costs of immigration. They also reveal diverse visions of what is to be revitalized as well as how and for whom. Generally, social scientists agree that the fiscal costs and benefits of immigration are unevenly distributed between and within metropolitan regions and that costs and benefits fluctuate over time, but at the national level and over the long term immigration produces net economic gains. In the short-term, and in particular cities and neighborhoods, this means widely varied experiences of immigration and revitalization.
Protected areas manifest tensions between the global and the local, between anthropology and biology, between the developed and the developing world, and between the state and its subjects. It is this that caused Nelson Mandela to remark: ‘I see no future for [protected areas] unless they address the needs of communities as equal partners in their development.’
Without a doubt, Connecticut is at an economic tipping point. Yesterday’s manufacturing has largely fled, new industries and services are slowly taking its place—but they are not numerous enough to lift the state’s economy and retain its workforce. In these early years of the 21st century, Connecticut is faced with significant challenges requiring urgent solutions. Connecticut does have the capacity to begin to reverse this situation, but there are no quick fixes. Positive, substantial, and meaningful economic growth must begin by reestablishing and reenergizing the state’s culture of innovation and entrepreneurship. Today’s most prosperous centers of innovation and entrepreneurship, like Connecticut in the 19th century, rely on the collective power of their institutions of higher education as essential community anchors, a major force of economic vitalization and leadership, and the wellspring of their creative workforce.

Connecticut is fortunate in having 38 institutions of higher education poised to expand opportunities to nurture a new generation of entrepreneurs and innovators. Nearly half of the state’s four-year degree-granting institutions currently offer concentrations, minors and / or majors in entrepreneurial studies. Some examples are Quinnipiac University, University of Hartford, University of Bridgeport, and UConn. Nine community colleges, such as Gateway Community College and Norwalk Community College, have either an Entrepreneur certificate or Small Business / Entrepreneurship concentration. The College of Technology (COT) helps students at 12 community colleges with Associates degrees in engineering or technology to transition to bachelor’s programs in the state’s senior colleges. COT’s Next Generation Manufacturing Center, a National Science Foundation Center of Excellence, provides resources for both students and educators.

Research institutions are rapidly expanding their technology transfer and research commercialization infrastructure, developing new proof of concept centers and establishing innovation funds to help faculty and student innovators build their companies in Connecticut. With 80% of the state’s R&D focused on biosciences, support for new ventures in the sector include UConn’s Technology Incubation Program (TIP) in Farmington, Storrs, and Avery Point, and the CURE Commons, in Groton. Yale, which has 12 institutes in the biosciences, supports extensive bioscience innovation infrastructure, including the Blavatnik Fund for Innovation, with competitively awarded grants bridging the gap between early-stage life science research and biomedical product commercialization. Finally, as Part 2 of this report explains, institutions of higher education have been accelerating and expanding their support of entrepreneurship and innovation among students, faculty and alumni significantly over the past five years.

However, this seeming abundance of resources is not functioning as effectively as it could. Taken together the institutions have all the ingredients required to support a strong culture of innovation, yet they are not operating together. In practice, efforts are often fragmented many institutions operate programs in isolation; others lack the administrative and financial capacity to move their students and faculty ideas to maturity. In this environment, institutions are not adapting effectively to the fast-moving entrepreneurial / innovative climate that characterizes their competitors in California, Massachusetts, and New York.
Racial and ethnic differences in academic performance have been identified as far back as the Coleman Report five decades ago (Coleman et al., 1966). More recent evidence on student achievement has revealed a persistent gap in the academic performance of minority students compared with that of their White counterparts, a gap that emerges early in the educational careers of students (Fryer and Levitt, 2004). Indeed, minority students enter kindergarten performing below their White peers, and the achievement gap grows as students progress through the early elementary years (Fryer and Levitt, 2006). Moreover, an income inequality in the United States has increased in recent years, so too has the achievement gap between students that come from high- and low-income families (Beardon, 2011). The persistent race gap in student achievement coupled with a growing achievement gap based on family income poses a particular concern for minority families in urban communities. Indeed, residential and economic segregation exist in most urban communities, and, left unaddressed, will continue to disadvantage the educational prospects of students from very early ages.

Recent attention, however, in both academic and policy circles has been given to the role early childhood education can play in preparing economically disadvantaged students for school and narrowing the achievement gap. For example, economist James Heckman has written widely on the economic benefits of investments in early childhood education as a means for reducing educational inequality (Heckman, 2016). Federal policy efforts such as the Obama administration’s RTTT-Early Learning Challenge has provided grants to states to improve the quality of early education programs provided to children who are among the most economically disadvantaged. At the local level, cities such as New York, New York, and Philadelphia, Pennsylvania, recently have made dramatic investments to provide greater access to high-quality pre-kindergarten (pre-K) programs. Given these recent efforts to expand access to pre-K, what effect might the provision of universal pre-K have on students’ academic success prior to entering elementary school?

The experiences of urban districts in Tulsa, Oklahoma, and Boston, Massachusetts, provide insight to this question.

Evidence From Tulsa

In 1998, the state of Oklahoma established a universal pre-K program for four-year-old children, under which each of the state’s 743 districts could choose to participate. A key feature of the state’s program is the requirement that all pre-K teachers have a college degree and a certificate in early childhood education. Moreover, these pre-K teachers received compensation equal to teachers in the state’s public elementary schools. Class sizes are capped at 20 students with a student-to-staff ratio of 10 to 1 (Gormley and Gayer, 2004). In a series of studies, Gormley (2008), Gormley and Gayer (2004), and Gormley et al. (2005) examined the impact of pre-K in the state’s largest urban school district, Tulsa Public Schools, on students’ cognitive development and school readiness, with a particular focus on the performance of racial and ethnic minority students.

In Gormley and Gayer (2004), the authors relied on a regression discontinuity design that leverages the strict age cutoff required to qualify for the pre-K program. The authors found that Tulsa’s pre-K program provides substantive benefits to eligible four-year-old children, including significant improvements in cognitive, language, and motor skill development. The authors further found that the positive benefits of pre-K are greatest for Hispanic and Black children, with more limited benefits than White children. Economically disadvantaged children—those who qualify for free lunch—gained more from Tulsa’s pre-K program than their more economically advantaged counterparts. In Gormley et al. (2005), the authors found that the program positively and significantly impacted children’s performance on cognitive tests of prereading and reading skills, prewriting and spelling skills, and math reasoning and problem-solving abilities. In Gormley (2008), the author specifically examined the impact of Tulsa’s pre-K program among Hispanic students and found that Hispanic children realized substantial improvements in prereading, prewriting, and premath skills and that children whose parents spoke Spanish at home, or whose parents were born in Mexico, realized the greatest benefit of Tulsa’s program.
Donald Trump’s thinking about cities is a product of the old urban crisis of the 1960s and ’70s—the staggeringly high rates of crime and poverty, economic and social dysfunction, and fiscal collapse that he witnessed in his native New York in the early years of his career.

But, his stunning victory over Hillary Clinton is a product of the backlash against what I have come to call the New Urban Crisis of burgeoning economic inequality—the widening divides between rich and poor, the staggering unaffordability of housing in our leading cities, tech hubs, and knowledge-centers like New York, LA, San Francisco, Boston, Seattle, and Washington, D.C.

This New Urban Crisis is defined by what I call “winner-take-all urbanism” in which the biggest, richest, and most talented metros attract wildly disproportionate shares of talent, industry, and economic assets, while smaller cities and towns in the Rustbelt, the Sunbelt, and rural regions fall farther and farther behind.

As narrow as Trump’s margin of victory might have been, its geographical bases are unmistakable. Clinton took the dense, affluent, knowledge-based cities and close-in suburbs that are the epicenters of new economy, winning the popular vote by a substantial margin. But Trump took everywhere else, taking 61 percent of the vote in rural places compared to 33 percent for Clinton. He won 57 percent of the vote in metros with less than 250,000 people, compared to 38 percent for Clinton. And he carried 52 percent of the vote in metros with between 250,000 and 500,000 people, compared to 34 percent for Clinton. All told, he won 260 metros, compared to Clinton’s 120. But the average Trump metro was home to just 210,000 people compared to 1.4 million for Clinton.

A growing number of commentators see our great cities as the major source of opposition and resistance to Trump and Trumpism, and that may well be the case. But an even bigger agenda awaits. Trump or not, the nation–state has too much power. Centralization might have made sense in the great age of industrial capitalism, but it has fallen out of sync with the demands of urbanized knowledge capitalism. Our cities are the new organizing units of our economy, and they need to be able to control their own destinies.

Localism represents the only path around our permanent political divide, which erupts every four year into a veritable Civil War. We have to learn to live together and the only way to do that is to allow us to Red states and Blue state and cities to live the lives they want to. Such devolution and local empowerment may have seemed like a pipe-dream a few years ago, but several forces—not the least of which is the rise of Trump—have conspired to bring a wide range of strange bedfellows from the left and right together on this issue.

This New Urban Crisis is defined by what I call ‘winner-take-all urbanism’ in which the biggest, richest, and most talented metros attract wildly disproportionate shares of talent, industry, and economic assets, while smaller cities and towns in the Rustbelt, the Sunbelt, and rural regions fall farther and farther behind.
The housing finance system began to unravel nearly a decade ago, but the ghosts of its demise continue to haunt us to this day. The housing finance system remains on government life support with no clear plans as of this writing on when or how to resuscitate it despite a substantial recovery in the overall economy.

The placement in conservatorship of Fannie Mae and Freddie Mac on September 6, 2008, in the aftermath of the Great Financial Crisis (GFC) has created a de facto government-funded housing finance system in the United States. More than seven years since the federal government placed these institutions in conservatorship, they continue to remain in that status, with no established exit plan. As of the beginning of 2016, Fannie Mae, Freddie Mac, and Ginnie Mae are virtually the only issuers of mortgage-backed securities (MBS). The public actions taken to support Fannie Mae and Freddie Mac were successful in their short-term aims of supporting the housing market and removing the two firms as an immediate source of systemic risk to the financial system. The conservatorship, however, does not achieve the goal of reforming securitization markets.

The Achilles heel of the pre-crisis securitization market, inherent in its structure, was the potential for systemic instability due to credit or default risk. As lending standards declined, surging housing prices veiled growing credit risk. Securitization markets shrouded rather than revealed information on the mounting system-wide leverage. The bundling of the housing bubble led to massive defaults, the collapse of securitization, systemic failure, and, in response, unprecedented public interventions to support the financial sector and the overall economy.

Episodes of systemic risk linked to real estate and housing finance markets are endemic across countries and history. This time securitization markets were at the center of the crisis. As a financial instrument, MBS markets can provide information on developing market risks. However, the structure of securitization markets precluded this in the GFC.

With the demise of private-label residential securitization and the conservatorships of Fannie Mae and Freddie Mac, there is both an opportunity and a necessity to rethink principles of securitization to promote systemic stability. Expanded HMDA (Home Mortgage Disclosure Act) requirements, which are set to go into effect in January of 2018, and the new National Mortgage Database will increase transparency. Nonetheless, resolution of information issues requires attention to the structure and regulatory framework of the U.S. housing finance system.
A Midterm Report: Will Habitat III Make a Difference?

EUGÈNIE BIRCH


[Face-based discussions occur throughout the U.N. system, with many agencies engaging in urban-focused activities. Three agencies have the most enduring histories in the area: U.N. Habitat, with a mandate centered on dealing with spatial issues; the Population Division, with its authoritative urban database; and the World Bank, with its substantial lending resources. Of these, U.N. Habitat has recently directed its work from a sole concentration on housing in the Global South to a broader portfolio of sustainable urbanization (clustering housing, planning, land management and related governance, legislative, and finance issues), clearer messaging, and renewed support of coordinated stakeholder partnerships. The reorientation, especially the concentration of sustainable urban development, messaging, and stakeholder ideas, are present in the New Urban Agenda (NUA). Although the NUA favors the areas of U.N. Habitat expertise, it leaves ample room for other U.N. agencies to contribute.

...[T]hree important legacies shaping Habitat III: the predecessor conferences (Habitat I and II), global agreements, and expanded stakeholder networks. The conferences and their outcome documents contribute to the substantive continuity of spatial considerations in the NUA, but also reveal gaps in meaningful civic engagement and monitoring. The Habitat III preparatory process and the draft NUA have continued the substantive themes and also offer corrections, especially in the development of content and direction of the draft NUA text through expanding the official inputs into the NUA, holding hearings prior to its completion, and supporting a new stakeholder organization more than a year before the conference. Further, global agreements, especially the Sendai Framework, SDGs, and the Paris Agreement, provide a solid foundation for pursuing sustainable urban development, on which the NUA drafts build. Finally, transnational solidarity is fueling the explosion of strong civil society networks that have the capacity to be fierce advocates for their interests in the NUA.

...[P]romising signs exist that Habitat III can have an impact on the course of urban development, yet obstacles remain. The NUA is short, pithy, and focused. It is also potentially action oriented if public and private decision-makers are convinced of its importance, a task that will require a lot more advocacy. The U.N. system has a number of agencies that can do their part to undertake supportive research and projects if they receive the financial backing from their donors. Some legacy problems (e.g., lack of prioritization) have been addressed in the NUA, whereas others remain to be solved (local government empowerment, rights discussions, monitoring, and evaluation). Nonetheless, the message is straightforward, providing clear guidance on key elements to be implemented. Further,

several civil society engagement platforms (e.g., policy units, GAP) are organized, yet they are insipient and temporary. However, the NUA is a guidance document that initiates a 20-year cycle for its dissemination and implementation. This leaves a good deal of room to spread the message, develop the necessary advocacy, and hold national governments responsible for their commitments to sustainable urban development, an area in which city and regional planners worldwide have the knowledge to undertake. But do they have the will?
Penn IUR’s expert events bring together scholars, policymakers, and decision-makers to exchange and advance ideas and research.

In 2016–2017, Penn IUR convened meetings on citizen participation in building communities after disaster, the application of remote sensing technology in efforts to build sustainable cities, and on underfunded municipal pensions. Penn IUR also played a leading role in international conferences on city growth in China and urban housing in Indonesia, and partnered with Perry World House in investigations into global urbanization, migration, and demography. In addition, Penn IUR supported cross-disciplinary collaboration by Penn faculty through support of Penn’s Humanities, Urbanism, and Design (H+U+D) Initiative.
In 2016–2017, 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 2016, delegates from Miyako City, Iwate Prefecture and New Orleans and Galveston. Next year, Kobe and Miyako City hosted delegates from both countries. In his keynote address, Weller presented his current publication, 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 projected areas in the socioeconomic regions within the world’s biodiversity hotspots, illustrating conflicts between projected city growth and biologically diverse habitats. (See page 38 for an excerpt from Weller’s Atlas for the End of the World, a Penn IUR Brief that Weller wrote summarizing his research.)

The symposium’s three panel sessions each focused on a different aspect of spatial data application. In the first session, “Global Urban Growth and Remote Sensing Imagery,” 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,” centered around 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. In the third session, “Identifying the Impact of Urban Expansion on Ecosystem Services,” panelists presented examples and case studies illustrating the effects of urban growth on ecosystem services.
Penn IUR Pensions Working Group Roundtables

Penn IUR, under the leadership of Advisory Board member Mark Rosenberg, hosted a series of roundtables in New York City as part of its broader investigation into the problem of underfunded public pensions and its implications for municipal finance. Through these meetings, Penn IUR is exploring challenges and opportunities related to market transparency and public understanding of this issue.

The first meeting, held on March 10, 2017, included ten participants from finance and academia, centered around the question of transparency and, specifically, how to promote public transparency about the state of individual city pension systems. At the second meeting, on May 15, 2017, participants discussed the geographic and political variations on the basic problem of underfunded pensions, common drivers of the problem, the impact on state and local budgets, and successful strategies. Additional Penn IUR Pensions Working Group meetings are planned for 2017–2018 to further explore issues of transparency and municipal solvency.

The Rise of the City in China

As part of a three-year Penn IUR investigation into urbanization in China supported by the Penn China Research and Engagement Fund, Penn IUR and the Penn Wharton China Center co-hosted a conference focused on identifying new forms of urban development and new mechanisms to finance investments in infrastructure and public goods in China. “The Rise of the City in China,” held on November 4, 2016 in Beijing, China, drew more than 100 scholars and practitioners from around the world to present and discuss research on the past, present, and future of urbanization in China.

Two of the day’s three panels focused on the application of historical and contemporary price indices in illuminating real estate trends and on the creation of sustainable urban finance mechanisms. 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 and heightened land use regulation 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,” provided evidence regarding price increases 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.

As the country experiencing the fastest rate of urbanization in Asia, Indonesia requires major infrastructure investment as well as housing and local public services. The symposium’s three panels and its keynote address centered on the changes needed in order to provide housing and quality public services to urban residents.

Urbanization, Urban Housing, and Housing Finance in Indonesia

On November 7, 2016, Penn IUR Co-Director Susan Wachter 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, The Wharton School and Director, Tanoto Foundation 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 development of informal settlements in particular. Panelists emphasized the role of national policy to support local governments and for urban policy to address environmental concerns, including 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 macro-stability 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.

Urbanization, Migration, and Demography

In 2016–2017, Penn IUR continued its support of Perry World House (PWH) in exploring global issues related to urbanization, migration, and demographic change. PWH—the University’s new hub for global engagement and international policy research—officially opened in 2016, though Penn IUR and PWH continued their partnership the previous year, while preliminary planning and research was underway.

Penn IUR Co-Director Eugenio Birch and Penn IUR Faculty Fellow Devesh Kapur, Director, Center for the Advanced Study of India (CASII), Pratap Lal Sobti Professor for the Study of Contemporary India, and Professor of Political Science, School of Arts and Sciences, chaired the exploration of one of PWHs inaugural research themes: “Global Shifts: Urbanization, Migration, and Demography.” Penn IUR also assisted PWH on two major events: a workshop on implementing the New Urban Agenda (December 9, 2016) and PWH’s first annual conference exploring the “Global Shifts” research theme (April 21, 2017). (See page 69 for more on these events.) Other events on which Penn IUR and PWH collaborated in the past year include a book launch for Skums (September 27, 2016), Resiliency and SDGs in a Changing Climate (March 30, 2017), Inside Habitat III (April 3, 2017), and a photography contest on the theme of urbanization, migration, and demography.
Penn’s Humanities, Urbanism, and Design (H+U+D) Initiative

The Penn Humanities, Urbanism, and Design (H+U+D) Initiative is a joint project of the School of Design and the School of Arts and Sciences, funded by the Andrew Mellon Foundation. Now in its fourth year, the five-year project works to bridge the gaps between urbanists in the humanities and design disciplines. H+U+D’s core activity is the H+U+D Faculty Colloquium. In addition, the initiative sponsors several other educational and research activities.

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

Each year, the initiative welcomes a new group of faculty members from the humanities and design disciplines and invites two Junior Fellows from other institutions who have recently completed their doctoral work to participate in the H+U+D Colloquium that meets biweekly to share research and foster collaboration. In 2016–2017, H+U+D Colloquium members read and discussed Penn IUR Faculty Fellow Francesca Ammon’s book, Bulldozer: Demolition and Clearance of the Postwar Landscape; toured Louis Kahn’s Esherick House and Robert Venturi’s Mother’s House on November 12, 2016; attended When the Rain Stops Falling by Andrew Bovell at Philadelphia’s Wilma Theater; visited the Jewish Museum in New York City to tour the “Pierre Chareau: Modern Architecture and Design” exhibit and talk with Guest Curator Esther da Costa Meyer, Professor, Art and Archaeology, Princeton University; and visited the Athenaeum of Philadelphia to view the exhibition “Laying Tracks and Laying Foundations: Building for the Railroad” with Curator of Architecture Bruce Laverty.

Colloquium members participated in conversations about H+U+D at conferences and workshops worldwide. Orkan Telhan, Assistant Professor, Department of Fine Arts, School of Design, represented H+U+D at the “Design in the Middle Workshop,” MAXXI National Museum of the 21st Century Arts in Rome, Italy. Penn IUR Emerging Scholar Mary Russo, 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. More H+U+D sponsored conference presentations are scheduled for Fall 2017.


Six students from across the University won research awards for 2016–2017 in a highly competitive process. Awardees who included undergraduates and graduates undertook projects ranging from an investigation of the role of immigrant entrepreneurs in shaping their new environments to the history of newborn nurseries in American hospitals.
Penn IUR brought together scholars, practitioners, faculty, students, and the general public for a diverse array of lectures, seminars, and panel discussions throughout the year. These programs highlighted key topics in urban research and best practices of relevance to Philadelphia, the nation, and the global community.
Federal Reserve Bank of Philadelphia Conference: Reinventing Our Communities: Transforming Our Economies

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, 2016 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.

The conference opened with a plenary session, “Building an Inclusive, Transformative Economy,” welcome by Theresa Singleton, Vice President and Community Affairs Officer, Federal Reserve Bank of Philadelphia, 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 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 Harker, Dennis Lockhart, and Loretta Mester closed the conference with a talk about the Federal Reserve’s role in transforming economies.

Six joint Penn IUR / Federal Reserve Bank of Philadelphia working papers were distributed at the conference and published in the March 2017 special issue of the journal Cityscape, guest-edited by Penn IUR Co-Director Susan Wachter, William Lambe, Senior Community and Economic Development Advisor, Federal Reserve Bank of Atlanta, and Theresa Singleton. (See page 29 for details on this publication.)
Urban Talks with Michael Nutter

Penn IUR and the School of Social Policy & Practice welcomed Senior SP2 Executive Fellow at Penn IUR Michael Nutter, Former Mayor of the City of Philadelphia, on three dates in March and April for a series of Urban Talks. Discussing his experience campaigning locally and holding office as both a City Councilman and Mayor of Philadelphia, Mayor Nutter shared insights on the path to public service and the responsibility of governing. Supplementing his talk with video clips and newspaper clippings, he highlighted key moments in his career and Philadelphia’s history.

On March 21, 2017, Mayor Nutter gave a presentation entitled “Public Service is a Calling—How Should You Answer It?” Recounting his early years growing up in Philadelphia and attending Penn, he told the story of his circuitous route to public service and his decision, at age 25, to commit himself to it. He spoke about the people who supported him, described what it takes to win elections, and his own experiences running for office.

In his second talk on April 3, 2017, Mayor Nutter focused on what comes after winning the Mayoral race, discussing both the day-to-day practices of good governance as well as the necessity of handling unexpected calamities. In “Getting Stuff Done in a Big City: From Daily Duties to Crisis Management,” Mayor Nutter described the difficulties of prioritizing multiple objectives and satisfying multiple stakeholders, highlighting some of the major successes of his time in office, such as a dramatic drop in homicides and the inculcation of an anti-corruption culture in City Hall.

In his final talk on April 17, “Reflections on Leadership: Lessons Learned in City Hall and Beyond,” Mayor Nutter reflected further on his time as the 98th Mayor of Philadelphia, exploring the practices and qualities necessary to succeed in a leadership role. Pointing out that the office is both near enough and powerful enough to be seen by the public as ultimately responsible for all the city’s issues, problems, and difficulties, Mayor Nutter described the necessity of both shouldering that responsibility and of working with others.

Throughout his three presentations and his conversations with the audience, Mayor Nutter made clear that he finds the difficult problems of urban governance and policy to be truly energizing and deeply important. In February 2017, Mayor Nutter was appointed Senior SP2 Executive Fellow at Penn IUR, a non-residential post that allows him to engage the Penn community on a regular basis on issues related to urban policy in Philadelphia and beyond. He is also continuing to serve as David N. Dinkins Professor of Professional Practice in Urban and Public Affairs at Columbia University’s School of International and Public Affairs. Additionally, he is currently writing a book about the topics covered in his three talks this spring.

To watch videos of Mayor Nutter’s talks, visit the “Events” section of the Penn IUR website: penniur.upenn.edu/events

Penn IUR Public Interest Series

Penn IUR hosted 30 programs throughout the year, bringing together scholars, practitioners, faculty, students, and the general public around a diversity of topics ranging from building urban resilience in the face of rising sea levels to answering the call for public service.

September 8, 2016

Penn Economic History Forum
No Price Like Home: Global House Prices, 1870–2012

Speaker:
Moritz Schularick, Professor of Economics, The University of Bonn

Host:
Department of History, School of Arts and Sciences

Cosponsor:
The Wharton School

September 14, 2016

Penn IUR Urban Book Talk

Bulldozer: Demolition and Clearance of the Postwar Landscape

Speaker:
Francesca Russello Ammon, Assistant Professor, City and Regional Planning, School of Design

Cosponsor:
Department of City and Regional Planning, School of Design

LEFT: Photo by Jessica Bautista.
SEPTEMBER 19–20, 2016
PERRY WORLD HOUSE GRAND OPENING, SPECIAL SESSION:
Urbanization, Migration, and Demography

Highlighted Speakers:
Eugénie Birch, Co-Director, Penn IUR
Devesh Kapur, Director, Center for the Advanced Study of India (CASI), Madan Lal Slob Professor for the Study of Contemporary India, and Professor of Political Science, Penn School of Arts and Sciences

Host:
Perry World House

SEPTEMBER 20, 2016
Brexit: Territorial Inequality and the Future of Nations

Speakers:
Andrés Rodriguez-Pose, Professor of Economic Geography, President of the Regional Science Association International, London School of Economics
Gilles Duranton, Dean’s Chair in Real Estate Professor, Chair, Real Estate Department
Joao Gomes, Howard Butcher III Professor of Finance

Cosponsor:
Perry World House

SEPTEMBER 27, 2016
PENN IUR BOOK LAUNCH
Slums: How Informal Real Estate Markets Work

SEE SPOTLIGHT ON FOLLOWING PAGE FOR MORE ON THIS EVENT.

Speakers:
Eugénie Birch, Co-Director, Penn IUR
Susan Wachter, Co-Director, Penn IUR

Cosponsors:
Perry World House and the Center for the Advanced Study of India (CASI)

OCTOBER 4, 2016
Media and Habitat III: How You Can Be a Part of It

Speakers:
Eugénie Birch, Co-Director, Penn IUR
Neal Peirce, Founder and Editor-in-Chief, CitiScope
Mythili Sampathkumar, U.S. Editor, Cities Today
Ariella Cohen, Editor-in-Chief, Next City

Cosponsor:
Perry World House

OCTOBER 15–20, 2016
UN-HABITAT III CONFERENCE EXHIBITION:
The Role of Sustainable Urbanization in the New Urban Agenda

See page 31 for more on Penn IUR’s exhibit at Habitat III.
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. 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.
DECEMBER 8–9, 2016
PERRY WORLD HOUSE WORKSHOP:
Advancing the New Urban Agenda in a Shifting World
SEE SPOTLIGHT ON RIGHT PAGE FOR MORE ON THIS EVENT.
Host: Perry World House

JANUARY 23, 2017
PENN IUR URBAN BOOK TALK
The Unbanking of America: How the New Middle Class Survives
Speaker: Lisa Servon, Professor of City and Regional Planning, Penn School of Design
Cosponsor: Penn School of Design

JANUARY 24, 2017
Pricing Carbon: Lessons from Canada
Speakers: Gitane De Silva, Alberta’s Senior Representative to the United States, Canadian Embassy
Jim Hines, Professor of Law and Co-Director, Law and Economics Program, University of Michigan
Jon Mitchell, Vice President Environment and Sustainability, Cenovus
Host: Kleinman Center for Energy Policy
Cosponsor: Canadian Consulate of New York

JANUARY 25, 2017
H+U+D Annual Lecture featuring Alan Greenberger
Speaker: Alan Greenberger, Distinguished Professor and Fellow, Drexel University and former Deputy Mayor of Economic Development and Commerce
Host: Humanities, Urbanism, and Design (H+U+D) Initiative

SPOTLIGHT ON PERRY WORLD HOUSE PARTNERSHIP:
Advancing the New Urban Agenda in a Shifting World and Global Shifts Conference
Penn IUR’s partnership with Perry World House (PWH) to explore global issues related to urbanization, migration, and demographic change continued in 2016–2017 (for more on the partnership, see page 55) with Penn IUR assisting PWH on two major events: a workshop on implementing the New Urban Agenda and PWH’s first annual conference exploring its inaugural theme “Global Shifts: Urbanization, Migration, and Demography.”

Following Penn IUR and PWH travel to Quito for Habitat III (see page 31), experts from academia, government bodies, the media, and nonprofit organizations gathered on December 9, 2016 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 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.

On April 21, 2017, discussions about inclusive urbanization continued at PWH’s first annual conference exploring the sustainability of urbanization, the unprecedented scale of migration, and the consequences of worldwide demographic change. “Global Shifts: Urbanization, Migration, and Demography: An Examination of Marginalization and Inequality,” convened by 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.

On April 21, 2017, discussions about inclusive urbanization continued at PWH’s first annual conference exploring the sustainability of urbanization, the unprecedented scale of migration, and the consequences of worldwide demographic change. “Global Shifts: Urbanization, Migration, and Demography: An Examination of Marginalization and Inequality,” convened by PWH and cosponsored by Penn IUR and others. Samantha Power (HON’15), U.S. Permanent Representative to the United Nations (2013–2017), gave the keynote address, speaking on the worldwide refugee crisis. At the symposium, Penn IUR and PWH revealed the winners of a related photography contest (see winning photograph, left). Penn IUR also welcomed symposium participants to its annual MUSA Earth Day event, which took place during the symposium’s lunch break, featuring Deborah Balk, Associate Director, Institute for Demographic Research, City University of New York (CUNY).
Media, Communication, and the City

SEE SPOTLIGHT ON RIGHT PAGE FOR MORE ON THIS EVENT.

Speakers:
Michael Delli Carpini, Walter H. Annenberg Dean and Professor of Communication, Annenberg School for Communication
John Jackson, Jr., Dean, Richard Perry University Professor and Penn Integrates Knowledge (PIK) Professor, School of Social Policy & Practice
Frederick Steiner, Dean and Paley Professor, School of Design

Supported by:
Penn’s Office of the Provost

MARCH 20, 2017
PENN IUR URBAN BOOK TALK
The Strip: Las Vegas and the Architecture of the American Dream

Speaker: Stefan Al, Professor of City and Regional Planning, School of Design

MARCH 21, APRIL 3, AND APRIL 17, 2017
Lecture series with Michael Nutter, former Mayor of the City of Philadelphia and Senior SP2 Executive Fellow at Penn IUR

See page 62 for more on this lecture series.

Cosponsor:
Penn School of Social Policy & Practice

MARCH 28, 2017
PENN IUR BOOK LAUNCH
Governing the Fragmented Metropolis: Planning for Regional Sustainability

Speaker: Christina Rosan, Professor of Geography, Temple University

Cosponsor:
University of Pennsylvania Press

SPOTLIGHT ON:
Media, Communication, and the City

In honor of Penn’s 2016–2017 Year of the Media, Penn IUR hosted a conversation on February 2, 2017 entitled “Media, Communication, and the City.” Panelists Michael Delli Carpini, Walter H. Annenberg Dean and Professor of Communication, Annenberg School for Communication; John Jackson, Jr., Dean, Richard Perry University Professor and PIK Professor; and Frederick Steiner, Dean and Paley Professor, School of Design, were joined by moderator and Penn IUR Co-Director Eugénie Birch to discuss the media’s role in promoting equality and shared prosperity.

Penn IUR Co-Director Susan Wachter introduced the panelists and the evening’s topic. Carpini gave the first presentation, discussing the causes and consequences of the current media environment. He identified four social and economic trends that have evolved over decades to create today’s media landscape: explosive growth in the number of media outlets, deregulation of media, an economic crisis within the industry, and a dramatic decline in public trust in news media. These trends, he said, have combined to blur the distinctions between interpersonal communication and mass media, entertainment and news, fact and opinion. While this state of affairs has incredible democratic potential, he said, it also requires active, critical engagement.

Jackson focused on the role of faculty and academics in the new media environment, explaining how the School of Social Policy & Practice is helping its faculty to make their research accessible and comprehensible to people outside of academia. SP2’s “Penn Top 10,” for example, is a web-based multimodal initiative in which SP2 experts identify and analyze the nation’s most important social justice and policy issues (penntopten.com).

Steiner’s presentation shifted the conversation to Philadelphia and, in particular, to the local media’s involvement in conversations on urban and design topics. He said that the city’s proliferation of media outlets covering urban issues, the existence of local critics with architecture and design beats, and the variety of community design initiatives at institutions such as Penn puts Philadelphia at the forefront of media and urban design experimentation.

Following panelist presentations, Birch moderated a discussion in which panelists recognized the impossibility of predicting the future of the media landscape, delved deeper into the relationships between academics and journalists in their efforts to communicate complex concepts to the public, and acknowledged aspects of communication that go beyond the transfer of information.

This event was made possible with the support of the Office of the Provost. To watch a video of the discussion, visit the “Events” section of Penn IUR’s website at: penniur.upenn.edu/events

Panelist Michael Delli Carpini discussed recent trends that have combined to blur the distinctions between interpersonal communication and mass media, entertainment and news, fact and opinion.
MARCH 30, 2017
Resiliency and SDGs in a Changing Climate
Speakers:
Howard Neukrug, Professor of Practice, Penn School of Arts and Sciences, Principal, CASE Environmental LLC
Frederick Steiner, Dean and Pakesy Professor, Penn School of Design
Henk Ovink, Special Envoy for International Water Affairs, Kingdom of the Netherlands and Principal, Rebuild by Design
Cosponsors:
Perry World House, Kleinman Center for Energy Policy, and Humanities+Urbanism+Design (H+U+D) Initiative
Photo by R. Kennedy for Visit Philadelphia™

APRIL 3, 2017
The Moment to Get Cities Right: Inside Habitat III, the Urbanization Summit of a Generation
Speakers:
Mark Alan Hughes, Faculty Director, Kleinman Center for Energy Policy, Professor of Practice, Penn School of Design
Ian Klaus, Perry World House Visiting Fellow, Former Senior Advisor for Global Cities, U.S. Department of State
Sarah Wu, Deputy Director, Office of Sustainability, City of Philadelphia
Ariella Cohen, Editor-in-Chief, Next City
Tom Dallessio, President, CEO, and Publisher, Next City

APRIL 10, 2017
PENN IUR BOOK LAUNCH
Principles of Housing Finance Reform
The U.S. Mortgage Market: What Does the Future Hold for Credit Risk and Access?
Speakers:
Greg Boester, Managing Director, JPMorgan
Peter Carroll, Executive Vice President, Mortgage Policy and Counterparty Relations, Quicken Loans
Gerron Levi, Director of Policy and Government Affairs, National Community Reinvestment Coalition
Barry Zigas, Director of Housing for Consumer Federation of America

APRIL 11, 2017
FILM SCREENING AND DISCUSSION
Changing Face of Harlem
Speaker:
Shawn Batey, Filmmaker
Host:
Department of City and Regional Planning, Penn School of Design

APRIL 20–21, 2017
PERRY WORLD HOUSE CONFERENCE:
Global Shifts in Focus: Marginalization & Inequality
SEE SPOTLIGHT ON PAGE 69 FOR MORE ON THIS EVENT.
Highlighted Speakers:
Jockin Arputham, President, Slum/Shack Dwellers International and Perry World House Visiting Fellow
Aisa Kirabo Kacyira, Deputy Executive Director, UN-Habitat
Deborah Balk, Associate Director, CUNY Institute for Demographic Research
Anne C. Richard, Assistant Secretary of State for Population, Refugees, and Migration (2012–2017) and Perry World House Visiting Fellow
T. Alexander Aleinikoff, Professor and Director, Zolberg Institute on Migration and Mobility, the New School for Social Research, former Commissioner, UN High Commissioner for Refugees
Arafat Jamal, Head, Inter-Agency Coordination, UN High Commission for Refugees
Kica Matos, Director, Center for Community Change, Immigrant Rights and Racial Justice
Susan Martin, Founder, Institute for the Study of International Migration, Georgetown University, and the Donald G. Herzberg Professor Emerita of International Migration
Host:
Perry World House
Photo by Internews Europe, via Flickr.

APRIL 21, 2017
MUSA Earth Day 2017: Urbanization, Migration and Climate Change: What Can We Learn From a Spatial Perspective?
Speaker:
Eugénie Birch, Co-Director, Penn IUR
Frederick Steiner, Dean and Pakesy Professor, Penn School of Design
Richard Weller, Martin and Nancy Meyerson Chair of Urbanism and Professor and Chair of Landscape Architecture
Hosts:
Penn School of Design and Penn School of Design Student Council
Photo by Internews Europe, via Flickr.

APRIL 27, 2017
Earth Day 1970 / 2017
Speakers:
Eugénie Birch, Co-Director, Penn IUR
Frederick Steiner, Dean and Pakesy Professor, Penn School of Design
Richard Weller, Martin and Nancy Meyerson Chair of Urbanism and Professor and Chair of Landscape Architecture
Hosts:
Penn School of Design and Penn School of Design Student Council
Photo by Internews Europe, via Flickr.

APRIL 30–May 1, 2017
PERRY WORLD HOUSE CONFERENCE:
Global Shifts in Focus: Marginalization & Inequality
SEE SPOTLIGHT ON PAGE 69 FOR MORE ON THIS EVENT.
Highlighted Speakers:
Jockin Arputham, President, Slum/Shack Dwellers International and Perry World House Visiting Fellow
Aisa Kirabo Kacyira, Deputy Executive Director, UN-Habitat
Deborah Balk, Associate Director, CUNY Institute for Demographic Research
Anne C. Richard, Assistant Secretary of State for Population, Refugees, and Migration (2012–2017) and Perry World House Visiting Fellow
T. Alexander Aleinikoff, Professor and Director, Zolberg Institute on Migration and Mobility, the New School for Social Research, former Commissioner, UN High Commissioner for Refugees
Arafat Jamal, Head, Inter-Agency Coordination, UN High Commission for Refugees
Kica Matos, Director, Center for Community Change, Immigrant Rights and Racial Justice
Susan Martin, Founder, Institute for the Study of International Migration, Georgetown University, and the Donald G. Herzberg Professor Emerita of International Migration
Host:
Perry World House
Photo by Internews Europe, via Flickr.
YOU CHANGE THE CONTEXT, YOU CHANGE THE LAWS, YOU CHANGE ATTITUDES, AND THEN ALL OF A SUDDEN SOMETHING THAT WOULD HAVE SEEMED LIKE AN INEVITABLE PATH INTO A MARGINAL AND DEPENDENT STATUS, OR A PATH TOWARDS POVERTY, OR A PATH TOWARDS NOT BEING ABLE TO CONTRIBUTE TO SOCIETY, ACTUALLY TURNS INTO A PATH TOWARDS EMPOWERMENT, TOWARDS POWER, AND TOWARDS THE ABILITY TO CHANGE THE WORLD.

—VICTOR PINEDA, AT THE APRIL 25, 2017 PENN IUR URBAN LEADERSHIP FORUM
Penn IUR provides opportunities for undergraduate and graduate students at all levels of study pursuing urban scholarship. Penn IUR coordinates the Undergraduate Urban Research Colloquium (UURC), supports the Master of Urban Spatial Analytics (MUSA) program, and hosts events open to urban-focused doctoral students across the University.
Penn IUR Undergraduate Urban Research Colloquium

Each year, Penn IUR sponsors the Undergraduate Urban Research Colloquium (UURC), an advanced research seminar for undergraduate scholars with an interest in urban-focused research from across the University. Held each spring semester, this seminar provides students with urban research experience and connects them with faculty mentors with expertise in the fields of interest. Students receive credits through the School of Design’s City and Regional Planning Department or the School of Arts and Sciences Urban Studies Program.

In the spring of 2017, Penn IUR sponsored the 13th annual UURC. This year, six undergraduate students representing the School of Arts and Sciences and The Wharton School and six faculty mentors representing the School of Arts and Sciences and School of Design participated in the program. Over the course of the semester, students visited the Architectural Archives at Penn, attended a documentary film screening, and participated in data gathering and sharing exercises to further their analytic skills. Faculty and researchers from across the University visited the class to present various approaches to urban inquiry, including presentations on spatial analytics for public policy, ethnography in India, participatory research in immigrant neighborhoods, and food insecurity among recipients of the supplemental nutrition assistance program (SNAP).

UURC topics of study and student-faculty teams this year were:

- **In My Back Yard: Housing Insecurity and Informal Responses in Cape Town, South Africa**
  **STUDENT:** MIRA KAPLAN
  **FACULTY MENTOR:** EUGÈNIE BIRCH
  **FACULTY MENTOR:** ANNA VALLYE
  **URBAN STUDIES, SCHOOL OF ARTS AND SCIENCES**

- **Urban Ageing Policies in Philadelphia and Daejeon**
  **STUDENT:** SEYEON KIM
  **FACULTY MENTOR:** HANS-PETER KOHLER
  **FACULTY MENTOR:** ANNA VALLYE
  **URBAN STUDIES, SCHOOL OF ARTS AND SCIENCES**

- **Martin Wagner, Urban Planner in Exile: An Exploration of the Physical Manifestations of Martin Wagner’s Theoretical and Philosophical Ideas**
  **STUDENT:** ANDRO MATHEWSON
  **FACULTY MENTOR:** ANNA VALLYE
  **URBAN STUDIES, SCHOOL OF ARTS AND SCIENCES**

- **The Preservation of Historic Sounds: Community Efforts to Restore and Maintain the Paul Robeson and John Coltrane Houses**
  **STUDENT:** MICHAEL JEAN
  **FACULTY MENTOR:** MOLLY McGLONE
  **URBAN STUDIES, SCHOOL OF ARTS AND SCIENCES**

- **Exclusion and Citizenship in the Arab Gulf States: Crystallizing a Discourse of ‘Khalijiness’**
  **STUDENT:** KHALED ABDULKARIM
  **FACULTY MENTOR:** HEATHER SHARKEY
  **NEAR EASTERN LANGUAGES AND CIVILIZATIONS, SCHOOL OF ARTS AND SCIENCES**

- **The Paul Robeson and John Coltrane Houses: Community Efforts to Restore and Maintain**
  **STUDENT:** NOAH HOLLIN
  **FACULTY MENTOR:** MARY ROCCO
  **NEAR EASTERN LANGUAGES AND CIVILIZATIONS, SCHOOL OF ARTS AND SCIENCES**

**Penn IUR Undergraduate Urban Research Colloquium**

**Master of Urban Spatial Analytics**

The Master of Urban Spatial Analytics (MUSA) is a nine-month graduate program coupling spatial analysis skills—most notably Geographic Information Systems (GIS)—with substantive knowledge in a selection of urban content areas including criminology, design, economic and community development, education, local and state government administration, public health, real estate, urban land use planning, social welfare, transportation, and urban demography. While many university and college programs offer certificates in GIS, Penn offers a unique master’s degree that integrates spatial analysis with multiple urban disciplines. MUSA is administered by the School of Design with support from Penn IUR and a university-wide Academic Committee. The program draws on teaching and research faculty from the schools of Design, Engineering, Business, and Public Health.

**Academic Committee**

- **JOHN LANDIS**
  Academic Director, Master of Urban Spatial Analytics, Crossways Professor of City and Regional Planning, School of Design

- **KEN STEIF**
  Program Director, Master of Urban Spatial Analytics, School of Design

- **DAVID BELL**
  Xinmei Zhang and Yongge Dai Professor, Professor of Marketing, The Wharton School

- **EUGÈNIE BIRCH**
  Co-Director, Penn IUR; Lawrence C. Nussdorf Professor of Urban Research and Education, Department of City and Regional Planning, School of Design

- **CHARLES BRANAS**
  Professor of Epidemiology in Biostatistics and Epidemiology, Department of Biostatistics and Epidemiology, Perelman School of Medicine

- **DENNIS CULHANE**
  Professor and Dana and Andrew Stone Chair in Social Policy, Co-Principal Investigator, Actionable Intelligence for Social Policy; Director of Research, National Center on Homelessness among Veterans, Social Policy & Practice; Director of Research, Social Policy; Co-Principal Investigator, Actionable Intelligence for Social Policy; Professor and Dana and Andrew Stone Chair in Social Policy, Co-Principal Investigator, Actionable Intelligence for Social Policy, National Center on Homelessness among Veterans, Social Policy & Practice; Professor, Perelman School of Medicine

- **IRMA ELO**
  Professor of Sociology, School of Arts and Sciences

- **AMY HILLIER**
  Associate Professor of Social Policy and Practice, Department of City and Regional Planning, School of Design

- **JANICE MADDEN**
  Professor of Regional Science, Sociology, Urban Studies, and Real Estate, School of Arts and Sciences and The Wharton School

- **TONY SMITH**
  Professor of Systems Engineering and Regional Science, Department of Electrical and Systems Engineering, School of Engineering and Applied Science

- **DANA TOMLIN**
  Professor of Landscape Architecture, Department of Landscape Architecture, School of Design

- **SUSAN WACHTER**
  Professor of Real Estate and Finance, The Wharton School

- **DOUGLAS WIEBE**
  Associate Professor of Epidemiology, Perelman School of Medicine
Public Programming

Every year, Penn IUR partners with MUSA to provide a lunch speaker series, GIS Day event, and Earth Day programming.

The Penn IUR lunch speaker series focuses on real-life applications of geographic information systems and spatial analysis. In 2016–2017, Penn IUR brought in five professionals to share with MUSA students how they apply current tools to urban problems and to speak about the evolving professional landscape. The 2016–2017 speakers included:

- Grant Ervin, Deputy Geographic Information Officer, Enterprise Services, City of Philadelphia
- Tim Haynes, GIS Analyst, City of Philadelphia
- Laura Ancona, Senior Data Scientist of Web Analytics, Office of Open Data and Digital Transformation, City of Philadelphia
- Ken Steif, MUSA Program Director; Founder, Urban Spatial
- Daniel Aldana Cohen, Assistant Professor, Sociology, Penn School of Arts and Sciences

Penn IUR also works with the MUSA program to host a GIS Day event each fall and an Earth Day event each spring. Penn GIS Day, held on November 16, 2016, focused on the importance of open data in public and private organizations for driving innovation. It featured a keynote address by Robert Cheetham, President and CEO, Azavea, followed by a panel discussion with Stacey Mosley, Founder, fixlist.co; Tom Sherk, Chief Data Officer, City of Chicago; and Andrew Turner, Director of ESRI Research and Development Center. Penn IUR celebrated Earth Day 2017 on April 21, 2017 with a talk by Deborah Balk, Associate Director, CUNY Institute for Demographic Research, on forced migration due to climate change. The was part of the Perry World House Global Shifts Conference on the same day.

Students

In order to complete the degree, students must complete a capstone project that applies spatial analysis to an urban content area. Final projects in 2017 included:

- “Spatial Segregation by Another Name: Impact of Religion in Delhi, India,” Shruti Adivan
- “Understanding Elderly ‘Wakas’ in Singapore,” Dorcas Chang Van Qin
- “Property Values and the Second Avenue Subway,” Claire Douglas
- “West Affordability Analysis in Philadelphia Neighborhoods,” Yue Guo
- “How does Road Network Affect Traffic Flow of Philadelphia?” Jingwen Hou
- “Web-based Tool for Supermarket Siting & Customer Analysis in San Francisco,” Fanrui Ren
- “Smart Select: A Decision Support Tool for Commercial Real Estate Investors,” Yun Shi
- “Site Selection for Amazon Go in Philadelphia,” Weiwei Sun (Joyce)
- “Urban Explorer—We Explore Cities with You,” Kunze (Aaron) Su
- “Web Mapping Design: Spatial and Temporal Analysis of Community Garden in New York City,” Zhihong Wang
- “Analyzing and Visualizing UBER Trip Data in NYC,” Mengxiang Zhang
- “Pattern Detection & Prediction of Chicago Taxi Trips,” Yipei Zhang
- “Bike Smart: A Redefined Philadelphia Bike Route Recommendation App,” Jianting Zhao
- “Predicting Free-Floating Bike Share Demand in New York City,” Luyun Zhao

MUSA students go on to hold professional positions in a diversity of fields in the public and private sectors. Exemplary positions include: Malaria Analyst, Clinton Health Access Initiative, Harare, Zimbabwe; GIS Specialist, University of Tennessee Health Science Center, Nashville, TN; Senior Economist and Director of Geospatial Analytics, Oxford Economics, Wayne, PA; Product Engineer, ESRI, Redlands, CA; Aerial Sensor Operator, Keystone Aerial Surveys, Inc., Philadelphia, PA; Programmer, Augur intelligence Technology (Guangzhou) Co. Ltd, Guangzhou, China; Scientist, NASA, Houston, TX; GIS Analyst, Philadelphia Department of Health, Philadelphia, PA; Corporate Real Estate Strategy Director, Bank of America, Pittsburgh, PA; Assistant Director of Planning and Evaluation, City of Philadelphia, Philadelphia, PA; Property Valuation Modeler, NYC Department of Finance, New York, NY; Deputy Budget Director, Program Evaluation, City of Philadelphia, Philadelphia, PA; Associate Director, Econsult Solutions, Philadelphia, PA; Assistant Director, Philadelphia Redevelopment Authority, Philadelphia, PA; Director, Data Analytics, Department of Rehabilitation Sciences, Temple University, Philadelphia, PA; Data Journalist, Associated Press; Founder, Urban Spatial Analytics, LLC, Philadelphia, PA; Lecturer, Department of City and Regional Planning, Penn School of Design, Philadelphia, PA; and Cityworks-GIS Asset Manager, Department of Public Works, City of Richmond, Richmond, VA.
Penn IUR Urban Doctoral Activities

Penn IUR supports urban-focused doctoral-level researchers by creating opportunities for students to present their research and to make connections with other urban scholars across disciplines. This year, Penn IUR hosted a speaker series for doctoral students at the UN’s Habitat III conference in Quito, Ecuador and cosponsored the annual Urban Doctoral Symposium.

In addition to taking part in Penn IUR doctoral events, a number of doctoral students go on to become part of Penn IUR’s Emerging Scholars network. (See page 92 for more information on Penn IUR Emerging Scholars.)

Doctoral Student Delegation to Habitat III

Eight students from the Graduate Group in City and Regional Planning, School of Design had the opportunity to present their research to an international audience of urbanists on October 19, 2016, as part of the Penn IUR Speaker Series at the UN’s Habitat III conference. Participating students and their topics of research included:

PATRICIO ZAMBRANO BARRAGAN
“Data and Cities: New Trajectories for Urban Governance in Latin America”

LAURENT CORROYER
“Disaster Debris Management”

CHANDAN DEUSKAR
“Measuring Global Urbanization Using a Standard Definition of Urban Areas”

SA MIN HAN
“Urban Design for Informal Settlement: The Case of Las Rehoyas, Spain”

KRISTA ISKANDAR
“Social Aspects in Informal Settlements: The Case of Indonesia”

CHAEKI KIM
“Troubled Infrastructure and Uneven Impacts on Population: A Case Study During Hurricane Sandy”

SIRUS LIBIERO
“Governing the Urban Periphery in India”

DAVID STANEK
“Keepers of Urban Heritage: Socioeconomic Dynamics of Local Historic Districts in the Largest Cities of the United States”

Urban Doctoral Symposium

On May 12, 2017, Penn IUR, in collaboration with the Penn Urban Studies Program, hosted the 13th annual Urban Doctoral Symposium, which celebrated the achievements of graduating doctoral students who have completed dissertations on urban-focused topics. The four graduating students and their topics of study were:

BRANDING AGAINST CLOSURE: PHILADELPHIA NEIGHBORHOOD SCHOOLS AND THE MANAGEMENT OF RISKY FUTURES
JULIA McWILLIAMS
Anthropology and Education, School of Arts and Sciences

LAND, WATER, INFRASTRUCTURE & PEOPLE: CONSIDERATIONS OF PLANNING DISTRIBUTED STORMWATER MANAGEMENT SYSTEMS
THEODORE LIM
City and Regional Planning, School of Design

HEALING AT THE BORDERLAND OF MEDICINE AND RELIGION: A FOLKLORE STUDY OF HEALTH CARE IN TAIWAN
CHIA-HUI LU
East Asian Studies and Folklore, School of Arts and Sciences

ANTHONY PRATCHER II
History, School of Arts and Sciences

Following welcoming remarks from Penn IUR Co-Director Susan Wachter, Dawn Bonnell, Vice Provost for Research, and Mark Stern, Co-Director, Urban Studies Program offered their congratulations to the graduating students. Elaine Simon, Co-Director, Urban Studies Program, School of Design, closed the event with a comment on the benefits of an interdisciplinary approach to studying the city and thanking the graduates for their work.
Penn IUR’s academic and professional networks promote exploration of urban issues across disciplines and sectors while its advisory boards help shape its programs and initiatives.

Penn IUR honors the many experts who collaborate with Penn IUR on research and programming through six honorific categories: Faculty Fellows, Scholars, Emerging Scholars, Fellows, Visiting Scholars, and Affiliated Doctoral Students. Through these networks, Penn IUR aims to foster an environment that encourages cross-disciplinary connections and nurtures a collaborative spirit across the University and beyond.
Penn IUR Faculty Fellows and Executive Council

Penn faculty with a demonstrated interest in cities
Faculty Fellow Executive Council members are denoted with an asterisk.

STEFAN AL
Associate Professor of Urban Design, Department of City and Regional Planning, School of Design

FRANCESCA RUSSELL AMMON
Assistant Professor, Department of City and Regional Planning, School of Design

DANIEL BARBER
Assistant Professor, Department of Architecture, School of Design

DAVID BARNES
Director of Health and Societies Major and Associate Professor, Department of History and Sociology of Science, School of Arts and Sciences

JONATHAN BARNETT
Professor Emeritus of Practice in City and Regional Planning, Department of City and Regional Planning, School of Design

JERE BEHMANN
William R. Keenan, Jr. Professor of Economics, Department of Economics, School of Arts and Sciences

DAVID BELL
Xinmei Zhang and Yongge Dai Professor, Professor of Marketing, Department of Marketing, The Wharton School

EUGENIE BIRCH
Co-Director, Penn IUR; Lawrence C. Nussdorf Professor of Urban Research and Education, Chair of Graduate Group, Department of City and Regional Planning, School of Design

*CHARLES BRANAS
Professor of Epidemiology in Biostatistics and Epidemiology, Department of Biostatistics and Epidemiology, Perelman School of Medicine

LAWRENCE BROWN
Miers Busch Professor of Statistics, Department of Statistics, The Wharton School

*DAVID BROWNLEE
Frances Shapiro-Weitzenhoffer Professor of 19th Century European Art, Department of History of Art, School of Arts and Sciences

WILLIAM BURKE-WHITE
Richard Perry Professor, Professor of Law, School of Law, Inaugural Director, Perry World House

*CAROLYN CANNUSCIO
Assistant Professor, Department of Family Medicine and Community Health, Perelman School of Medicine

CAMILLE ZUBRINSKY CHARLES
Professor of Sociology, Walter H. and Leonore C. Annenberg Professor in the Social Sciences, Chair, Department of Africana Studies, Department of Sociology, School of Arts and Sciences

RAM CNAAN
Professor; Program Director, Program for Religion and Social Policy Research; Faculty Director, Golding Rally Initiative, School of Social Policy & Practice

DANIEL ALDANA COHEN
Daniel Aldana Cohen, Assistant Professor, Sociology, School of Arts and Sciences

*DENNIS CULHANE
Professor and Dana and Andrew Stone Chair in Social Policy; Co-Principal Investigator, Actionable Intelligence for Social Policy; Director of Research, National Center on Homelessness among Veterans, School of Social Policy & Practice

THOMAS DANIELS
Professor; Director, Land Use and Environmental Planning Concentration, Department of City and Regional Planning, School of Design

*JOHN DIULIO, JR.
Frederic Fox Leadership Professor of Politics, Religion, and Civil Society; Director, Robert A. Fox Leadership Program, Department of Political Science, School of Arts and Sciences

GILLES DURANTON
Dean’s Chair in Real Estate Professor, Chair, Department of Real Estate, The Wharton School

FERNANDO FERREIRA
Associate Professor of Real Estate and Business Economics and Public Policy, Department of Real Estate, The Wharton School

KENNETH FOSTER
Professor of Bioengineering, Department of Bioengineering, School of Engineering and Applied Science

VIVIAN GADDSEN
William T. Carter Professor of Child Development and Education; Director, National Center on Fathers and Families; Associate Director, National Center on Adult Literacy, Graduate School of Education

RICHARD GELLES
Former Dean, School of Social Policy & Practice; Joanne and Raymond Welsh Chair of Child Welfare and Family Violence; Director for the Center for Research on Youth and Social Policy, Department of Child Welfare and Family Violence; Co-Director, Field Center for Children’s Policy Practice and Research, School of Social Policy & Practice

EDWARD GEORGE
Universal Furniture Professor of Statistics, Department of Statistics, The Wharton School

RAFFAELLA FABIANI GIANETTO
Assistant Professor; Department of Landscape Architecture, School of Design

KAREN GLANZ
George A. Weiss University Professor, School of Nursing; Professor of Epidemiology, Perelman School of Medicine; Senior Scholar, Center for Clinical Epidemiology and Biostatistics

ANDREA GOULET
Professor of Romance Languages; Graduate Chair, French; French and Francophone Studies, School of Arts and Sciences

DAVID GRAZIAN
Associate Professor of Sociology; Graduate Chair, Sociology, School of Arts and Sciences

JErNE ANN GRISSE
Emeritus Professor CE of Family Medicine and Community Health, Department of Family Medicine and Community Health, Perelman School of Medicine

ERICK GUERRA
Assistant Professor, Department of City and Regional Planning, School of Design

MAURO GUILLEN
Dr. Felix Zandman Professor of International Management; Director, Lauder Institute, Department of Management, The Wharton School

JOSEPH GYOURKO
Martin Buckelman Professor of Real Estate, Finance, and Business Economics and Public Policy; Director, Zet / Lurie Real Estate Center, Department of Real Estate, The Wharton School

GARY HACK
Professor Emeritus of City and Regional Planning, Department of City and Regional Planning, School of Design

KATHELEEN HALL
Associate Professor of Education and Anthropology, Division of Education, Culture, and Society, Graduate School of Education

JESSE HANDBURY
Assistant Professor of Real Estate, Department of Real Estate, The Wharton School

*IRA HARKAVY
Associate VP and Founding Director of the Barbara and EdwardNetter Center for Community Partnerships

SARA HELLER
Assistant Professor of Criminology, Department of Criminology, School of Arts and Sciences

JOAN HENDRICKS
The Gilbert S. Kahn Dean, School of Veterinary Medicine

AMY HILLIER
Associate Professor, Co-Director, Department of City and Regional Planning, School of Design

*RENATA HOLOD
College of Women Class of 1963 Term Professor in the Humanities, Department of History of Art, School of Arts and Sciences; Curator, Near East Section, Museum of Archaeology

MARK ALAN HUGHES
Professor of Practice, Department of City and Regional Planning, Faculty Director, Kleinman Center for Energy Policy, School of Design

ROBERT INMAN
Richard King Mellon Professor of Finance; Professor of Business Economics and Public Policy, Professor of Real Estate, Department of Finance, The Wharton School

ROBERTA IVERSEN
Associate Professor, Director, Master of Science in Social Policy Program, School of Social Policy & Practice
DANIEL LEE
Department of Architecture, School of Design
Professor and Chair of the Graduate Group in Architecture,
* JOHN LANDIS
Emeritus Professor of Biostatistics and Epidemiology, Department of Public Health, School of Arts and Sciences

JOHN KEENE
Science, School of Arts and Sciences
the Study of Contemporary India, Department of Political Science
Professor of Political Science, Madan Lal Sobti Professor for
Director, Center for the Advanced Study of India (CASI);

DEVESH KAPUR
Associate Professor of Landscape Architecture and Urban Design, Department of Landscape Architecture, School of Design

*ALAN KELLY
Professor Emeritus of City and Regional Planning,
CITY AND REGIONAL PLANNING, School of Design
Professor of Practice in Water Leadership and Innovation,

JOHN MCDONALD
Professor of Criminology and Sociology, Faculty Director, Fels Institute of Government, Department of Criminology, School of Arts and Sciences

*JANICE MADDEN
Professor of Regional Science, Sociology, Urban Studies, and Real Estate, School of Arts and Sciences and The Wharton School

CHRISTOPHER MARCINKOSKI
Associate Professor of Landscape Architecture and Urban Design, Department of Landscape Architecture, School of Design

RANDALL MASON
Associate Professor and Chair, Executive Director of PennPraxis, Department of Historic Preservation, Executive Director, PennPraxis, School of Design

ANURADHA MATHUR
Professor, Department of Landscape Architecture, School of Design

*REBECCA MAYNARD
University Trustee Professor of Education and Social Policy, Education Policy Division, Graduate School of Education

MATTHEW MUCHUGH
The Independence Chair for Nursing Education, Professor of Nursing; Associate Director, Center for Health Outcomes and Policy Research; Faculty Director, Nursing and Health Care Management Coordinated Dual Degree Program, School of Nursing

AFAF MELEIS
Dean Emeritus and Professor of Nursing and Sociology, School of Nursing

HOWARD NEUKRUG
Professor of Practice in Water Leadership and Innovation, Department of Earth and Environmental Science, School of Arts and Sciences

*LAURA PERN \nJames S. Rajes Professor; Founding Executive Director, Penn AHEAD; Chair, Higher Education Division, Graduate School of Education

WENDELL PRITCHETT
Prevost, University of Pennsylvania; Presidential Professor of Law and Education, Law School

JOHN PUCKETT
Professor of Education, Literacy, Culture, and International Education Division, Graduate School of Education

JANET ROTHENBERG-PACK
Professor Emerita of Business Economics and Public Policy, The Wharton School

WITOLD RYBCZYNSKI
Martin and Margy Meyerson Professor Emeritus of Urbanism, Department of Architecture, School of Design

MEGAN RYERSON
Assistant Professor of City and Regional Planning and Electrical and Systems Engineering, Department of City and Regional Planning, School of Design

SASWATI SARKAR
Professor of Electrical and Systems Engineering, Department of Electrical and Systems Engineering, School of Engineering and Applied Science

*ERIC SCHNEIDER
Assistant Dean and Associate Director for Academic Affairs; Adjunct Professor, Department of History, School of Arts and Sciences

LYNN SAWYER SOMMERS
Professor Emerita of Nursing, School of Nursing

HEATHER SHARKEY
Associate Professor, Department of Near Eastern Languages and Civilizations, School of Arts and Sciences

KENNETH SHROPSHIRE
David W. Hauck Professor Emeritus of Legal Studies and Business Ethics; Faculty Director, The Wharton School Sports Business Initiative, The Wharton School

*TONY SMITH
Professor of Systems Engineering and Regional Science, Department of Electrical and Systems Engineering, School of Engineering and Applied Science

BRIAN SPOONER
Professor of Anthropology, Department of Anthropology, School of Arts and Sciences

FREDERICK STEINER
Dean and Paley Professor, School of Design

NANCY STEINHARDT
Professor of East Asian Art; Curator of Chinese Art, Penn Museum, Department of East Asian Languages and Civilizations, School of Arts and Sciences

MARK STERN
Professor; Kenneth L.M. Pray Professor of Social Policy and History; Co-Director, Urban Studies Program; Principal Investigator, Social Impact of the Arts Project, School of Social Policy & Practice

MARILYN JORDAN TAYLOR
Professor of Architecture and Urban Design; Former Dean, School of Design

ANNE TETELMAN
Patricia Breznak Silverstein and Howard A. Silverstein Endowed Term Chair in Global Women’s Health; Associate Professor of Nursing, School of Nursing; Associate Professor of OB / GYN, Perelman School of Medicine

*REBECCA TOMLIN
Professor of Landscape Architecture, Department of Landscape Architecture, School of Design

DOMINIC VITELLO
Associate Professor and Assistant Chair, Department of City and Regional Planning, School of Design

RICHARD VOIT
Adjunct Professor of Real Estate, Department of Real Estate, The Wharton School

VUKAN VUCHIC
Adjunct Professor of Real Estate, Department of Real Estate, The Wharton School

SUSAN WACHTER
The Independence Chair for Nursing Education, Professor of Nursing; Associate Director, Center for Health Outcomes and Policy Research; Faculty Director, Nursing and Health Care Management Coordinated Dual Degree Program, School of Nursing

*LAURA TOMLIN
Professor Emerita of Business Economics and Public Policy, The Wharton School

ROBERT YARO
Professor of Practice, Department of City and Regional Planning, School of Design

Penn Institute for Urban Research 2016–2017 ANNUAL REPORT
### Penn IUR Scholars

Renowned academics from around the world investigating critical urban problems

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliations</th>
</tr>
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<tbody>
<tr>
<td>FRANK ALEXANDER</td>
<td>Sam Nunn Professor of Law, Emory University School of Law</td>
</tr>
<tr>
<td>ELLIH ANDERSON</td>
<td>William K. Lannan, Jr. Professor of Sociology, Yale University</td>
</tr>
<tr>
<td>TIMOTHY BEATLEY</td>
<td>Teresa Heinz Professor of Sustainable Communities, Department of Urban and Environmental Planning, School of Architecture, University of Virginia</td>
</tr>
<tr>
<td>RICHARD BERNNKOPF</td>
<td>Director of the Science Impact Laboratory for Policy and Economics (SILPE), Research Professor, Department of Economics, University of New Mexico</td>
</tr>
<tr>
<td>ALAIN BERTAUD</td>
<td>Senior Research Scholar, Marron Institute of Urbanization, NYU</td>
</tr>
<tr>
<td>NISHA BOTCHWEY</td>
<td>Associate Professor, School of City and Regional Planning, Georgia Institute of Technology</td>
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<tr>
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<td>Architect, Planner, Development Consultant; Instructor, University of Minnesota</td>
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<td>Senior Fellow, The New School, Lecturer, NYU Abu Dhabi</td>
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<td>Professor Emeritus, City and Regional Planning, University of North Carolina–Chapel Hill</td>
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<td>Provost's Chair, Professor of Real Estate and Finance; Director, Institute of Real Estate Studies, Head, Department of Real Estate, National University of Singapore</td>
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<tr>
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<td>Emeritus Professor of Urban and Regional Planning, Taubman College of Architecture and Urban Planning, University of Michigan</td>
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<tr>
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<td>Assistant Professor of Economics, Graduate School of Business, Stanford University</td>
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<td>ZAIRE ZENIT DINZYE-FLORES</td>
<td>Associate Professor, Latino and Hispanic Caribbean Studies and Sociology, Rutgers University</td>
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<td>Global Research Professor, New York University; Director of Business and Creativity, The Martin Prosperity Institute, Rotman School of Management, University of Toronto; Founder, Creative Class Group</td>
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<td>MATTHEW FREEDMAN</td>
<td>Associate Professor, Department of Economics, University of California–Irvine</td>
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<td>Hilberry Professor of Urban Affairs, Department of Urban Studies and Planning, Wayne State University</td>
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<td>Professor, Director and Chair, USC Lusk Center for Real Estate; Chair, Department of Policy Analysis and Real Estate, Sol Price School of Public Policy, University of Southern California</td>
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<td>Clifford and Betty Allin Chair in Urban Leadership, Executive Director, USC Race &amp; Equity Center, Rossier School of Education, University of Southern California</td>
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<td>John LaFarge Jr. SJ Professor of Public Policy, Georgetown University</td>
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<td>Associate Professor, Department of Criminology and Justice Studies, Drexel University</td>
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</tr>
<tr>
<td>MATTHEW KAHN</td>
<td>Professor of Economics, Spatial Sciences and Environmental Studies, Dornoff College of Letters, Arts and Sciences, University of Southern California</td>
</tr>
<tr>
<td>KYUNG-HWAN KIM</td>
<td>Professor, School of Economics, Soongsung University; former President, Korea Research Institute for Human Settlements; Immediate Vice Minister, Republic of Korea; Vice Minister, Ministry of Land, Infrastructure and Transport (MOLIT)</td>
</tr>
<tr>
<td>SCOTT GABRIEL KNOWLES</td>
<td>Associate Professor of History; Interim Department Head for History, Drexel University</td>
</tr>
<tr>
<td>CHRISTIAN KROHN-HANSEN</td>
<td>Professor, Department of Social Anthropology, University of Oslo</td>
</tr>
<tr>
<td>HUANG LING</td>
<td>Associate Professor of Urban Planning, Chongqing University</td>
</tr>
<tr>
<td>JENS LUDWIG</td>
<td>McCormick Foundation Professor of Social Service Administration, Law, and Public Policy, Harris School of Public Policy and School of Social Service Administration, University of Chicago</td>
</tr>
<tr>
<td>ALAN MABIN</td>
<td>Professor and Research Fellow, Centre for the Advancement of Scholarship, University of Pretoria</td>
</tr>
<tr>
<td>STEPHEN MALPEZZI</td>
<td>Emeritus Professor of Economics and Finance, University of Illinois at Chicago</td>
</tr>
<tr>
<td>JOHN MCDONALD</td>
<td>Emeritus Professor of Economics and Finance, University of Wisconsin–Madison</td>
</tr>
<tr>
<td>RICHARD GREEN</td>
<td>Emeritus Professor of Economics and Finance, University of Wisconsin–Madison</td>
</tr>
<tr>
<td>SIMON MISHBAH</td>
<td>Consultant, Transit and Rail Project Development and Finance, WSP USA</td>
</tr>
<tr>
<td>DOVELL MYERS</td>
<td>Professor, Sol Price School of Public Policy; Director, Population Dynamics Research Group, University of Southern California</td>
</tr>
<tr>
<td>ARTHUR NELSON</td>
<td>Professor of Urban Planning and Real Estate Development, College of Architecture, Planning and Landscape Architecture, University of Arizona</td>
</tr>
<tr>
<td>SUZANA PASTERNAK</td>
<td>Professor of Architecture and Urbanism, University of São Paulo</td>
</tr>
<tr>
<td>MARINA PETERSON</td>
<td>Associate Professor of Performance Studies, School of Interdisciplinary Arts, Ohio University</td>
</tr>
<tr>
<td>RUTHERFORD PLATT</td>
<td>Professor Emeritus of Geography, University of Massachusetts–Amherst</td>
</tr>
</tbody>
</table>
BO QIN  
Professor, Department of Urban Planning and Management, Renmin University of China

STEPHEN RAPHAEL  
Professor and James D. Mannier Chair in Public Policy, Goldman School of Public Policy, University of California–Berkeley

STEPHEN ROSS  
Professor, Department of Economics, University of Connecticut

JESSE ROTHSTEIN  
Professor, Department of Economics, University of North Carolina–Chapel Hill

ARTHUR ACOLIN  
Assistant Professor, Department of Real Estate, University of Washington

PETER BLAIR  
Assistant Professor, Department of Human Ecology, University of California–Berkeley

STEPHENV Ross  
Professor, Department of Economics, University of Connecticut

JAMAICA CORKER  
Post-Doctoral Fellow, Institute for Demographic and Life Course Studies, University of Geneva

JESSE ROTHSTEIN  
Professor, Department of Economics, University of North Carolina–Chapel Hill

CATHARINE BRINKLEY  
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Assistant Professor, John E. Walker Department of Economics, University of Massachusetts

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Assistant Professor, Department of Finance, Kellogg School of Management, Northwestern University

LAWRENCE VALE  
Ford Professor of Urban Design and Planning, Massachusetts Institute of Technology

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Professor, School of Geographical Sciences and Urban Planning; Chair, Global Studies Program; School of Politics and Global Studies, Arizona State University

MARK WILLIS  
Senior Policy Fellow, Furman Center for Real Estate and Urban Policy, New York University

KATHLEEN WOLF  
Research Social Scientist, College of the Environment, School of Environmental and Forest Sciences, University of Washington

LAURA WOLF-POWERS  
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CHUNXIA YANG  
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ANTHONY YEH  
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MEAGAN EHLENZ  
Assistant Professor, School of Geography and Urban Planning, Arizona State University

THEODORE EIGENMAN  
Assistant Professor, Department of Landscape Architecture, University of Massachusetts–Amherst

ALBERT HAN  
Postdoctoral Research Fellow, Environmental Design, University of California

JORDAN HYATT  
Assistant Professor, Department of Criminology and Justice Studies, Drexel University

KIRSTEN KINZER  
Assistant Professor, Department of Public and International Affairs, University of North Carolina–Wilmington

AMY LYNCH  
Assistant Professor, Department of Geography, Ohio University

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STUART ANDREASON  
Senior Economist, W.E. Upjohn Institute for Employment Research

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Senior Economist, W.E. Upjohn Institute for Employment Research

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Principal, Michael Berman Consulting, LLC

ANGELA GLOVER BLACKWELL  
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Founder and Director, ImpactED

MARY ROCO  
Post-Doctoral Researcher, Penn IUR, University of Pennsylvania

EUGENIA SOUTH  
Assistant Professor, Department of Emergency Medicine, Perelman School of Medicine, University of Pennsylvania

KENNETH STEIF  
Program Director and Lecturer, Master of Urban Spatial Analytics Program, School of Design, University of Pennsylvania

AMBER WOODBURN  
Assistant Professor, Department of City and Regional Planning, Knowlton School of Architecture, The Ohio State University

ALBERT ALEX ZEVELEV  
Assistant Professor, Applied Economics, Zicklin School of Business, Baruch College, City University of New York

PAUL BROPHY  
Principal, Brophy & Reilly, LLC

MENGKE CHEN  
Transportation Consultant, World Bank

JAMES CLOAR  
Consultant, Downtown Advisory Services

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Managing Director, Moody’s Analytics

ANDREW DAVIDSON  
Founder and President, Andrew Davidson & Co. Inc.

KATEHO KINZER  
Assistant Professor, Department of Public and International Affairs, University of North Carolina–Wilmington

EUGENIA SOUTH  
Assistant Professor, Department of Emergency Medicine, Perelman School of Medicine, University of Pennsylvania

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Graduate Group in City and Regional Planning, School of Design

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Graduate Group in City and Regional Planning, School of Design

M. ZOE WARNER
Graduate Group in City and Regional Planning, School of Design

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- Mr. Robert Stewart and Ms. Kathryn Stewart
- Studio Hillier
- Taiwan Institute for Economic Research
- Mr. Kenneth Michael Tanenbaum
- U.S. Geological Survey

Penn IUR Staff and Contact Information

Co-Directors

**EUGENIE BIRCH**
Lawrence C. Nussdorf Professor of Urban Research and Education
Department of City and Regional Planning
School of Design, University of Pennsylvania
215.898.8330
elbirch@upenn.edu

**SUSAN WACTER**
Sussman Professor
Professor of Real Estate and Finance
The Wharton School, University of Pennsylvania
215.898.6355
wachter@wharton.upenn.edu

Managing Director

**AMY MONTGOMERY**
amylmo@upenn.edu

Program and Communications Manager

**MUSA Program Assistant**

**LAURA BARRON**
barron@upenn.edu

Project Manager

**AMANDA LLOYD**
amandaj@upenn.edu

Editor and Publications Director

**CARA GRIFFIN**
cgriffin@upenn.edu

Communications Director

**DEBORAH LANG**
dlango@upenn.edu

Meyerson Hall, G-12
210 South 34th Street
Philadelphia, PA 19104-6311
215.573.8386
penniur@pobox.upenn.edu
penniur.upenn.edu
twitter.com/penniur
facebook.com/penniur.upenn
Looking Ahead

Land for Public Good in Emerging Economies

Penn IUR will continue to explore how to create and monitor orderly urban development in rapidly urbanizing places. One facet of this initiative promotes the adoption of "RENEWW Zones," a decentralized, closed-loop, multipurpose model for recycling waste and water while producing energy and food within a designated area within or contiguous to a slum. In 2017–2018, Penn IUR and partners will launch a competition to catalyze the development of pilot RENEWW Zones. Penn IUR will lead a colloquium of Penn scholars researching "Responses to Current Global Agreements: New Theories and Practices of Development in Low- and Middle-Income Nations."

Urban Fiscal Stability

Penn IUR will continue to promote fiscal stability in U.S. cities through research, convenings, and expert roundtables. In the coming year, efforts will focus on building transparency around the problem of underfunded municipal pensions. Penn IUR will explore, with the support of a working group composed of key stakeholders and experts in the field, various facets of municipal pension obligations.

Advancing the New Urban Agenda

Penn IUR will continue to generate research in support of the New Urban Agenda and sustainable urban development. Forthcoming articles by Penn IUR Co-Director Eugénie Birch include "Inclusion and Innovation: The Many Forms of Stakeholder Engagement in Habitat III" (Cityscape) and "Implementing the New Urban Agenda in the United States, Building on a Firm Foundation" (Informationen zur Raumentwicklung).

Energy Efficiency in the Asia Pacific

Penn IUR will conduct a gaps analysis of APEC-sponsored energy efficiency projects, recommending priorities for future funding by illustrating current gaps. This work is a continuation of Penn IUR’s partnership with APEC economies to promote the adoption of energy efficient technologies and practices across the Asia Pacific by supporting knowledge transfer and the adoption of best practices.

Housing Finance Reform

Penn IUR will continue to work with partners in the Federal Reserve Bank System and beyond to illuminate problems in the U.S. housing finance system and propose and advance reforms that would enhance the long-term stability of the system while promoting access and affordability. A forthcoming Economic Policy Review will include papers focusing on these issues.

Rise of the City in China

Penn IUR will host the second in a series of conferences held at the Penn Wharton China Center discussing urbanization dynamics in China. This second conference will look at the financing of sustainable urban development in China, including looking to international models for transferable lessons. Penn IUR will make papers from the full 2016 conference on the Rise of the City in China available online.