Dear CPIP Supporter:
John Foote and I are pleased to present CPIP’s Fall 2014 Newsletter. We have had a terrific six months, with many new activities, research projects, and affiliates. We look forward to a series of great events final months of 2014. Thanks again for your support.

Sincerely,
Rick Geddes, CPIP Director

University of Limerick Scholar in Residence
CPIP and the Department of Policy Analysis and Management were delighted to host Eoin Reeves, Senior Lecturer in the University of Limerick’s Kemmy Business School’s Department of Economics and Director of its Privatisation and PPP Research Group, as a visiting scholar during the Spring 2014 semester. Eoin’s research is focused on market-based public sector reforms and the regulation of infrastructure. It includes issues related to privatization and alternative forms of private sector participation in the delivery of public services. He is the co-author of Privatisation in Ireland – Lessons from a European Economy (Palgrave MacMillan, 2011).

See Eoin’s research on the right.

Eoin Reeves in the CPIP office

More Research...
CPIP Director Rick Geddes also launched several new infrastructure policy related research projects. Examples include:

Social Welfare Analysis of Investment Public-Private Partnership Approaches for Transportation Projects: This innovative research project lays out a new approach to garnering public support for adopting area-wide mileage-based user fees, or MBUFs. We call the approach an investment public-private partnership. This paper also offers a broader framework for considering the social costs and benefits of adopting a PPP than the current value-for-money approach that is widely used. This

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Eoin Reeves’ Research
While at Cornell this spring, Eoin developed several research projects:

Comparative Analysis of Tendering Periods for PPP Contracts: Lengthy tendering periods can increase the cost of PPP projects and affect competition for contracts. This project involves assembling a data base on tendering periods (from date of Contract Advertisement to Financial Close) and project characteristics for PPP projects in a cross-section of countries (e.g., USA, Australia, Canada). The data will be used to examine how tendering periods vary across factors such as country, sector (e.g. transport, schools, water, etc.), PPP-types and time-periods.

The Favorability of PPP Enabling Legislation in the USA and Its Impact on PPP Investment: This project focuses on questions surrounding state-level enabling laws and PPP investment in the USA. Specifically the paper seeks to document the gradual increase in the adoption of PPP enabling laws in the USA and map the resulting increase in PPP activity in the USA across states and sectors. It then seeks to construct an index to measure the extent to which specific legislation around PPP is favorable or unfavorable and examine the relationship between the favorability of the law and the extent of PPP investment.

Funding, Financing and Productivity of Ports Infrastructure in the USA: This project is based on assembling data on the different funding and financing arrangements in place for ports infrastructure in the USA. In addition it aims to assemble data for the purpose of conducting productivity analysis of US ports.

www.human.cornell.edu/pam/cpip
This document is a representation of the email newsletter sent 10/23/2014; email: cpip@cornell.edu
research is being conducted jointly with Oliver Gao and Omid Rouhani, both of Civil & Environmental Engineering at Cornell University.

The Effects of PPP Enabling Laws on Infrastructure Investment: Thirty-three U.S. states have enacted laws that are explicitly designed to attract private investment into infrastructure, typically transportation. These laws are complex, involving a number of key provisions. This is the first formal attempt to empirically examine the actual effect of such laws in attracting private legal investment to infrastructure, and the impact of various provisions in doing so. This research is being conducted with Daniel Albalate and Germà Bel, both of the University of Barcelona.

Public-Private Partnerships and Contract Choice in India’s Water and Wastewater Sector: This research examines the determinants of contract type in water PPPs in India. To do so, an original data set was assembled analyzing 163 Indian water and wastewater PPP contracts over a 14 year period. A variety of statistical techniques were utilized to assess the data. This research is co-authored with Mr. Sri Vedachalam of Earth & Atmospheric Sciences, and was recently revised and resubmitted for publication in a peer-reviewed environmental journal.

How Small is Too Small? Economies of Scale in U.S. Water Utilities: This research examines the phenomenon of economies of scale in U.S. water utilities, which is the effect of falling unit cost as system size rises. To do so, survey information from the American Water Works Association from several decades was combined to create the largest data set ever assembled on this issue. This research is being conducted jointly with Dr. Sri Vedachalam and Cornell economics major Mr. Kushagra Aniket.

Inaugural Meeting of CPIP Advisory Council
On June 3, 2014 the inaugural meeting of the CPIP Advisory Council was held in New York City. This Council, composed of thirteen seasoned infrastructure practitioners, was formed to create a link between the academic community and the industry. It’s goal is to ensure CPIP’s work is focused on viable, practical infrastructure solutions. CPIP’s success will be measured by its impact on the development of solutions that are relevant to today’s pressing infrastructure problems. The Council focused on the following questions:

• What is the most effective role(s) of academia with respect to addressing our infrastructure problems? A corollary question is, how can academia and infrastructure-sector practitioners (broadly defined) work together to improve public policies toward infrastructure?
• What are the important infrastructure issues that require objective and empirically-based investigation and research? This will help CPIP refine its agenda of important issues to be researched. (Note: CPIP is supporting faculty, post-doc, graduate and undergraduate students who are conducting research on key infrastructure topics. These topics should have direct bearing on the ongoing policy debates in the infrastructure space.)
• What are the set of foundational skills and knowledge sets someone working on any aspect of the infrastructure space (e.g. planning, development, finance, operations, etc.) should have upon graduation. (Note: CPIP is working closely with Cornell’s Master of Public Administration (MPA) degree program. MPA candidates at Cornell are required to take a core

EVENTS:

Can We Fix Manhattan’s Traffic Problem?
Traffic and Manhattan are synonymous. Mayor Koch tried to fix the problem in 1980 and failed. Mayor Bloomberg tried in 2008 and failed. But now there’s talk about a new plan, using variable tolling to manage the number of cars in Manhattan that may have some previous opponents changing their minds.

CPIP and the Cornell Club of New York are co-sponsoring a panel discussion on September 22, 2014 at 6:00pm at the Cornell Club of New York City with “Gridlock” Sam Schwartz, former NYC Traffic Commissioner, and Mike Manville, Professor of City and Regional Planning (and CPIP affiliate). This discussion will be moderated by John Foote ’74, Executive Director of the Cornell Program in Infrastructure Policy.

6-6:30pm cash bar reception
6:30pm lecture, gratis.

TRB Cornell Reception
January 2015
Back by popular demand, Cornell will be hosting a reception for alumni and friends at this year’s annual TRB meeting in Washington, DC—January 11-15. Details will be forthcoming.

Staying in Touch!
We set up a CPIP Twitter account. Please join us. We’ll be able to keep you up to date on what is going on in CPIP. If you have noteworthy items related to infrastructure policy that you think our CPIP audience would like to know, please tweet (cucpip) or email cpip@cornell.edu, and we’ll tweet, or retweet.
set of courses in administration, economics and analytic methods. Upon completion of the core, students can concentrate in one of several areas, including Science, Technology and Infrastructure Policy, or STIP.)

The members of the Council are:

**Dean Angelakos** (Cornell ‘85), Senior Vice President-Parsons Corporation

**Jon Berger** (Cornell ‘81), Chief Executive Officer- Great Lakes Dredge & Dock Company

**Mark DeAngelis** (Cornell ‘91), CEO-Macro Climate Solutions, LLC

**Raymond DiPrinzio**, Senior Vice President -Sumitomo Mitsui Banking Corporation

**Mark Fagan**, Founding Partner-Norbridge Inc.

**John Foote** (Cornell ’74), Executive Director-CPIP

**H. Oliver Gao**, Associate Professor-School of Civil & Environmental Engineering-Cornell University

**Rick Geddes**, Director- Cornell Program in Infrastructure Policy, and Associate Professor, Department of Policy Analysis & Management, College of Human Ecology, Cornell University

**Steve Greenberg** (Cornell ’89), Managing General Partner- Fox Meadow Capital Partners

**Martha Gross**, Senior Infrastructure Advisor- Arup

**Mark Joseph**, Chief Executive Officer and Vice Chairman of Veolia Transportation North America

**Joung Lee**, Deputy Director of Program Finance and Management-American Association of State Highway and Transportation Officials

**Edward Merlis**, business, transportation, public affairs and government relations consultant

**Bill Reinhardt**, Editor/Publisher-Public Works Financing Newsletter

**Aaron Singer**, Bid Director-Parsons Enterprises

**Scott Zuchorski** (Cornell ‘97), Senior Director-Fitch’s Global Infrastructure and Project Finance Group

**PIP Visiting Scholars**

CPIP is pleased to welcome two visiting scholars to Cornell for Fall 2014: Judith Clifton, Associate Professor of Applied Economics (Public Policy and Political Economy) at the University of Cantabria (Spain) and Editor in Chief of the Journal of Economic Policy Reform, and Daniel Díaz-Fuentes, Professor of Applied Economics a the University of Cantabria.

Judith has been analyzing the topic of privatization for twenty years. Today, the ongoing financial and economic crises are proving to be a catalyst for privatization of public services. Judith will be comparing public versus private management policies implemented by governments for public services across the EU and the USA to identify trends and convergence.

Daniel has been studying the role of the European Investment Bank in infrastructure funding. This fall, he will be analyzing EIB infrastructure finance policies with Rick Geddes.
Martha Gross - First CPIP Executive in Residence

We are delighted to announce that our first Executive in Residence is Martha Gross, Senior Infrastructure Advisor at Arup. Martha provides commercial and technical advisory support for large infrastructure projects, with a focus on transportation design-build (D/B) and public-private partnership (PPP) procurement and delivery. Prior to joining Arup, Martha was associated with Tidewater Skanska, focusing on project controls, engineering, and management of infrastructure projects. Martha has a MBA, PhD (Civil Engineering) from Virginia Tech and a BS and MEng in Civil Engineering from Pennsylvania State University. http://www.linkedin.com/pub/martha-gross/25/15a/224.

This appointment entails Martha spending at least one day per month on campus in September, October and November. During those days she will be interacting extensively with students and faculty. “Martha’s background, experience and passion for the infrastructure space will be invaluable to students and faculty interested in infrastructure issues. We are very fortunate that Martha has agreed to be our first executive in residence,” said John Foote, CPIP’s Executive Director.

Oliver Gao Named Associate Director of CPIP

Oliver Gao, who is an Associate Professor in the Department of Civil and Environmental Engineering, has recently accepted the position of Associate Director of CPIP. Rick Geddes, CPIP Director, said “Oliver’s work in transportation systems is in the sweet spot of CPIP-focused issues. His appointment strengthens the links between the College of Engineering, CIPA, and CPIP. We are delighted to have him play this critical role on the leadership team.”

Oliver was recently the featured faculty member in the Spring 2014 newsletter of the University Transportation Research Center, Region 2, a USDOT-supported university transportation center hosted by the City of New York, CUNY, and comprised of a consortium of 19 institutions in New York (including Cornell), New Jersey, Puerto Rico, and the Virgin Islands. An excerpt from the newsletter is below:

H. Oliver Gao is an award-winning professor at Cornell University and a world-renowned expert on transportation and environment/energy systems. Dr. Gao is an elected member in the graduate fields of 1) Cornell Institute of Public Affairs (CIPA), 2) Systems Engineering, 3) Transportation Systems Engineering in Civil and Environmental Engineering, 4) Air Quality in Earth and Atmospheric Science, and 5) Computing and Information Science at Cornell University. He is Editor-in-Chief of the leading international academic journal, Transportation Research D: Transport and the Environment. His research focuses on engineering/economics modeling and systems management solutions for sustainable and intelligent infrastructure and lifeline systems, low carbon and low emission transportation systems, environment (especially air quality and climate change)-energy systems, and the closely related issues of infrastructure and environment finance such as game theory and mechanism design for public-private partnership (PPP). He also studies alternative transportation/energy technologies, systems innovation, and green supply chain and logistics (e.g., sustainable food systems, quantifying and mitigating green-house gas emissions from food supply chains). He is a current member of Transportation Research Board Committee on Maintenance Equipment (AHD60), and a member of Cornell’s Atkinson Center for a Sustainable Future (ACSF).

Gao received his graduate degrees (Ph.D. in Civil and Environmental Engineering, M.S. in Statistics, and M.S. in Agriculture and Resource Economics) from the University of California at Davis in 2004, M.S. degree in Civil Engineering in 1999, and duel undergraduate degrees in Environmental Science and Civil Engineering in 1996 from Tsinghua University, China. Gao also enjoys close and frequent intellectual interactions with his networks in finance. Before joining Cornell, Gao was a quantitative analyst in the mathematical and econometrical modeling division at a Wall Street hedge fund specializing in emerging markets such as the Brazil, Russian, India, and China (BRIC).

Over the past decade, Professor Gao’s research on urban transportation infrastructure and air pollution/health has resulted in the development of an international leading research program in transportation and air quality studies at Cornell University. Through both solo efforts and collaborations with others, he has secured significant and continued research funding sponsored by US and international organizations such as US Department of Transportation, US Department of Agriculture, the Lloyd’s Register Foundation (UK), US Environmental Protection Agency, etc.. His research publications have appeared in highly regarded transportation, environment, and management journals including Environmental Science & Technology, Transportation Research, Energy Policy, and Atmospheric Environment, etc. The outcome of his research has significant implications for improved capability to model, predict, and control transportation emissions and to evaluate their impacts on air quality, with the ultimate effect of optimizing transportation and air quality management strategies and thus improving public health.