

USC Sol Price School of Public Policy
“Regional Approaches to Air Quality in Beijing, China”
USC Price China Lab PPD 613a and 613b
Spring and Summer 2017

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USC Price International Labs

The Price School International Labs integrate scholarly knowledge with professional practice by providing consulting services in a setting outside the United States. Lab participants work collaboratively in multidisciplinary teams to address a particular project identified by the client in the host country. With active guidance from their professor, students analyze information pertinent to the project and its context, and then produce a set of policy recommendations for the client. These recommendations are supported by classroom knowledge, academic research, analytical tools, databases, case studies, together with various maps and graphics.

As participants transition from the classroom to a real-world international setting, they gain direct experience with translating professional practice in a cross-cultural context. While some background research and preparation is necessary prior to leaving the U.S., the bulk of the assignment is undertaken on an intensive basis in the field. The on-site work culminates in a presentation to the client. The International Labs are designed as integrative professional experiences for graduate student from across the Price School. Graduate students from other USC programs may also join on a case by case basis (with permission from the instructor). The labs provide students with an opportunity to build their credentials and experience while extending their network of professional contacts.

The International Lab comprises two components. PPD 613a is a 1-unit course in the spring semester that precedes and is the prerequisite for a companion two-week, 3-unit intensive field course offered in the summer term. Although the two are closely coupled, they are technically two distinct courses.

USC Price China Laboratory 2017

The first component of the China Lab, PPD 613a, will be conducted over four sessions at USC during the Spring 2017 semester – from 6:00 -9:00 p.m. on Jan 24th, Feb 21st, March 21st, and April 18th. The second component, PPD 613b, will be conducted on location in Beijing from late May through early June, May 22 – June 2. A detailed daily schedule for this intensive component will be announced prior to arrival in Beijing.

This year's China Lab in Beijing looks to engage its students in regional air quality management in the larger Beijing area. The aim of the 2017 China lab is two-fold: For one, California has long held a position of leadership within the field of air quality management and specifically with regard to innovative practices in terms of organizational structure & governance, environmental justice and its cap and trade program; a lot of which bears similarity with what China is looking to implement. Lab participants are hence challenged to think critically about the success of



California's experience and to identify best practices. In a second step, students are going to explore the potential of identified air quality management practices and governance in the Chinese context, actively engaging local knowledge.

The 2017 China Lab's scope will cover the issues in transportation, energy, environmental regulation, and land use planning – all areas key to the issue of air quality. Consequently, students will be grouped into interdisciplinary teams based on these topic areas. Over the course of the the 1-unit preparatory course in the spring term, students will be studying the Californian approach to air quality management as well as acquire solid background knowledge on the issue of air quality generally and in China specifically. Upon arrival in Beijing, the group will work in close collaboration with this year's partner, the World Bank's transport group in their Beijing office, and other local institutional partners in order to get a profound understanding of the local context and ultimately to provide policy relevant recommendation. As the lab seeks to provide an opportunity for students to apply their knowledge in practice and find real-work solutions drawing from a wide array of disciplines, students across the fields of policy, public administration, planning, epidemiology and public health are encouraged to apply.

During the 1-unit preparatory course in the spring semester, students will conduct background research, form thematic teams, identify relevant case studies, and develop a proposed work plan that will guide the fieldwork in the summer. During the 3-unit intensive summer course, PPD 613b, students will spend two weeks in Beijing and environs meeting with experts and practitioners, conducting site visits and working collaboratively on the project. This work culminates in the submission of a final written report and a single, integrated presentation of that report to the client on the final day of the Lab.

Course Objectives

As with all USC Price International Labs, the learning objective is to learn how to translate "classroom knowledge" into professional practice, and to do so in a setting outside the United States. The pedagogical

model draws on a professional consulting paradigm, with a clearly identified client and terms of reference for the students' work.

Specifically, the learning objectives for the two-part lab include the following:

- Integration and application of classroom knowledge to a specified problem context. Students will have the opportunity to develop their skills associated with synthesizing existing research, finding and gathering data relevant to the project, and using the data to diagnose problems, design and assess various options, and develop recommendations that take into account the constraints facing the client.
- Management of an international consulting project, paying particular attention to formulating and adhering to a manageable work plan. Students will gain valuable practice in presenting analyses of issues and recommendations in a concise, clear and interesting manner from the perspective of their client. Participation in the Lab also entails an affirmation of professional norms of conduct. Students are expected to adhere to professional norms of punctuality, thoroughness, reliability, communication skills, professional appearance, integrity and ability to work well in multi-cultural teams.
- Personal growth in terms of teamwork, by developing a better understanding of how to function as part of a team with international members. Participation in the Lab provides students with useful insights into their individual strengths and what they can contribute to a team effort, as well as how to resolve interpersonal and organizational issues within the team. The course also intends to attract students with diverse backgrounds and interests, so that individual team members are able to contribute the specialized knowledge related to their field of study.
- Translation of professional practice in a cross-cultural setting. Professional practice as developed in the United States is embedded in a particular social, institutional, economic and cultural context. A key objective of the course is for students to gain a better awareness of how to adapt their professional practice to suit contexts that are often quite different from those in the U.S.
- Learn about public-private partnerships as an institutional form, including the different models, their purpose, how they operate, and the associated benefits and challenges of each for the public sector. Students will develop lessons learned from a wide range of case studies and assess the applicability of those lessons for the Italian context.

Assignments and Determination of Grades

Spring semester (1-unit course)

Final grades for the 1-unit course PPD 613a are based on the following items:

- **Assignment 1: Self-introductions.** Each student will record a 2-3 minute Voice Thread video. This video will be a self-introduction that explains how s/he expects to contribute to the team effort, based on her background training, knowledge and interests. **(10%)**

At the end of this class, students will be assigned to four groups, one each for (1) transportation, (2) energy, (3) environmental regulation, and (4) land use. The boundaries of the group topic areas may be permeable and the group topics may (indeed, probably will) evolve as the work in the studio proceeds, but the groups will start with these definitions. Students in each group

complete readings and present to the class as in Assignment 2, below, at the second class meeting in February.

For Assignment 2 (due in writing two days before the Feb. 21 class and with presentations in the Feb. 21 class:

Group on Transportation will review the two readings in that section, plus the readings by Lan and Tang on China.

Group on Energy will review the two readings in the energy section plus the three readings in economic approaches (with a focus on the first two of the “economic approaches” readings.)

Group on Environmental Regulation will review the three readings on Air Quality in the U.S. plus the reading by Eaton on China.

Group on Land Use will review the two readings on land use plus the two readings, by Lo and by Lan, on China.

Within each group, students organize themselves so that each student writes a 2-3 page summary of one reading, and so that each reading has a written summary. Students also organize themselves to present a unified powerpoint presentation on the readings they were assigned, drawing out key points, in which each student speak. Presentations should be timed to last 15 minutes. Hence the presentations will likely not be comprehensive but will draw out themes that students judge to be most important.

- **Assignment 2: Academic review.** As discussed above, students will read and report on the readings at the end of this syllabus, and prepare an individual 2-3 page report should summarize the article in question while explaining its potential relevance for practitioners and a group presentation of 15 minutes. **(15% individual paper, 15% group presentation)**
- **Assignment 3: Case study.** Working in teams, students will research a case study in the U.S. or China related to their group’s topic. Each team will present its findings in class with an emphasis on the lessons learned from that case study. **(20 %, presentation only; no written report required)**
- **Assignment 4: “Translation”.** Each student will write a 2-3 page essay assessing how readily the prior case studies and academic reviews apply (or not) to the Chinese context. What are some of the unique institutional, cultural or economic conditions in China that may need to be considered? **(30%)**
- **Class participation.** The relevant metric here is how each student’s participation enriched the experience of others in the class. **(10%)**

Summer semester (3-unit course)

While *individual* effort and initiative is essential, ultimately it is the quality of the *group* product that matters to the client. Accordingly, final grades for the 3-unit course (PPD 613b) are based on both group and individual components.

Although each student will be contributing in her own way to the outcome, the written report will be evaluated as a single, integrated document. All students succeed or fail in equal measure, based on the quality of the group work. Similarly, the final presentation made to the client will be evaluated as a single, coherent effort. Accordingly, half of each student's grade for this 3-unit course will be calculated as follows:

- **Final group written report.** This report will be addressed to the client, but should also be of interest to a wider audience. It should be a summative effort that states its purpose clearly while also explaining its findings and recommendations in a thorough, professional and persuasive manner. Arguments should be supported – as needed – with an appropriate range of data, graphs, illustrations, analytical work, appendixes and bibliographic references. The emphasis should be on clarity of thought, with a crisp writing style. Its length should be kept to a minimum, subject to fully accomplishing what it has set out to do. **(15%)**
- **Final group presentation to client.** The presentation made to the client should generally follow a parallel structure to the written report, but with appropriate adjustments to reflect the different medium of communication. Although each student should contribute to its content in some meaningful way, the presentation itself should not be cluttered with multiple voices. The emphasis should be on a single, integrated, coherent presentation on behalf of the entire group. **(10%)**
- **Interim group written report.** A full draft of the written report should be submitted to the instructor three days prior to the final. Because there is so little time for review, feedback and revision, this interim effort is of equal weight to the final. **(15%)**
- **Interim group presentation.** A practice run of the final presentation will be given two days prior to the final. **(10%)**

The remaining half of each student's grade will be based more directly on individual effort, as indicated here:

- **Class participation.** This includes punctuality, professionalism, and regular participation in all aspects of the Lab. Ultimately, however, the value of each student's contribution is based on how others in the class benefit from his/her involvement. **(15%)**
- **Professional journal.** This is intended to be the centerpiece of your individual effort, and it is weighted accordingly. At one level, it is a daily record of your activities in the Lab. More than that, it is a venue for you to reflect on the Lab experience as you are experiencing it. You should aim to produce a thoughtful set of daily observations and reflections of enduring value. **(25%)**
- **Photo contest.** Each student will submit three photos, one in each of the following categories:
 - Photo pertaining to the overall theme of this Lab (regional approaches to air quality regulation in Beijing) and the four sub-themes (transportation, energy, air quality, and land use planning)
 - Photo revealing what it is like to participate in this Lab
 - Photo that shines with creativity and artistry.

Although the instructor will assign grades based on her own judgment, the three contest winners – one in each category – will be chosen by their peers through a ballot. **(10%)**

Course schedule – Spring semester (PPD 613a)

Although the spring semester comprises only one unit of academic credit, it is of crucial importance to ensuring the group arrives in China well prepared for the intensive portion of the course. Once one has arrived on site, it will be too late to prepare. Accordingly, the spring semester has four successive sessions, with important background reading and research on your part.

Session 1: Session content includes course introduction and overview (including the clients and projects, the on-line platform and logistics) and class introductions. The instructor will provide some overview of California’s experience in air quality regulation. Assignment 1 (Self Introductions) described above is due, and all readings listed in the Reference section under “Concepts & Theories” must be read before this session.

Session 2: Session content includes the Chinese context. Assignment 2 (academic reviews) includes an individual 2-3 page paper, due two days before class) and group presentations, as described earlier in the syllabus.

Session 3: Team presentation of case studies (Assignment 3), prepared in advance using the online platform. Class discussion of lessons learned.

Session 4: Assignment 4 (“Translation”) is two days prior to the session 4 class meeting. In class, the instructor will lead a discussion and assessment of how lessons learned from the case studies and the scholarly articles may or may not apply to the China context.

Course schedule – Summer semester (PPD 613b)

The two weeks spent in Beijing will be highly intensive, with three main phases after arrival: ingestion, digestion, and production. These three phases are successive yet somewhat overlapping. Students should arrive in Beijing no later than **Sunday, May 21, 2017**, ready to begin work Monday morning. The first week is primarily one of ingestion, with a full schedule of lectures and site visits designed to illuminate the policy issues within the local context. There is a one-day hiatus in the midst of this first week to allow students to begin to digest the vast quantities of information they have received, and to reflect upon how their own report (due the next week) can be incorporate these new findings.

The intervening weekend between the two intensive weeks is less structured but should be used productively. It also provides students with a much-needed opportunity to rest & recuperate so that they can continue working intensively the next week, which moves fully into production mode. Both the final written report and client presentation are due on Friday morning. In order to allow for adequate review and feedback prior to this final day, a practice run of the client presentation is due on **Tuesday, May 30, 2017**. Likewise, a full draft of the written report is due on **Wednesday, May 31, 2017**. Students will be working in fluid teams with client presentation and written report being produced in parallel.

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Week 1 Ingestion (May 23- 27)	Lectures & Site visits	Lectures & Site visits	Lectures & Site visits	Midstream Reflection	Lectures & Site visits	Workshop Detailed task designations	Flexible time

				Report outline			
Week 2 Digestion & Production (May 30 – June 3)	Report & presentation preparation	Practice run for client presentation	Complete 1 st draft of report due	Report & presentation revisions	Final report due & final presentation		

Statement for Students with Disabilities

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to the TA) as early in the semester as possible. DSP is located in STU 301 and is open 8:30 a.m.–5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.

Statement on Academic Integrity

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one’s own academic work from misuse by others as well as to avoid using another’s work as one’s own. All students are expected to understand and abide by these principles. *SCampus*, the Student Guidebook, contains the Student Conduct Code. See Section 11.00 (under University Governance) for a description of violations of university standards and Appendix A for the recommended sanctions: <http://web-app.usc.edu/scampus/university-student-conduct-code/>

Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: <http://www.usc.edu/student-affairs/SJACS/>

Readings (by topic area)

Transportation and Air Quality

M. Boarnet, “Planning, Climate Change, and Transportation: Thoughts on Policy Analysis,” *Transportation Research A*, volume 44, issue 8, October, 2010, pp. 587-595.

M. Boarnet and S. Handy, “White Paper: A Framework for Projecting the Potential Statewide VMT Reduction from State-Level Strategies in California,” Prepared for the California Strategic Growth Council, Sacramento, CA, Nov. 21, 2016.

Air Quality Regulation in the U.S. and California

The Southland's War on Smog: Fifty Years of Progress Toward Clean Air (through May 1997). Southern California Air Quality Management District, available at <http://www.aqmd.gov/home/library/public-information/publications/50-years-of-progress>

Boarnet, Marlon G. and Randall Crane. 2001. Chapter 2 of Travel by Design: The Influence of Urban Form on Traffic. New York: Oxford University Press, pp. 17-31.

California Assembly Bill 32: See the documents at <https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm>, especially the scoping plan, at <https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm>, pp. ES1-ES9 and pp. 1-5, and pp. 36-45 (Energy) and pp. 46-56 (Transportation). There are many sidebars that could form case studies throughout the scoping plan.

Land Use and Air Quality Regulation

Johnson, Ian. 2015. As Beijing Becomes a Supercity, the Rapid Growth Brings Pains. New York Times. July 19. Available at http://www.nytimes.com/2015/07/20/world/asia/in-china-a-supercity-rises-around-beijing.html?_r=0. (Note: This is an introduction to the Jing-Jin-Ji plan.)

Kan, Karoline. 2016. Jing-Jin-Ji: Integrating a Chinese Metropolis. World Policy Journal XXXIII,2: pp. 5-10.

Energy

California Renewable Energy Overview and Programs. California Energy Commission, available at <http://www.energy.ca.gov/renewables/>

See California Assembly Bill 32 scoping plan, 2014 update, section on Energy (also cited above) at <https://www.arb.ca.gov/cc/scopingplan/scopingplan.htm>, pp. 36-45.

Economic Approaches to Air Quality Regulation

Tax Carbon and Rebate the Money? That could be expensive. Bloomberg news, Aug. 8, 2014, with summaries of research (and links) by Resources for the Future, <https://www.bloomberg.com/news/articles/2014-08-08/carbon-taxes-giving-rebates-to-everyone-would-cost-the-most>

Yes on I-732 (summary in favor of Washington State initiative for a refundable carbon tax), available at <https://yeson732.org/>

Coria, Jessica and Thomas Sterner. 2008. Tradable Permits in Developing Countries: Evidence from Air Pollution in Santiago, Chile. Washington, D.C.: Resources for the Future DP 08-51, available at <http://www.rff.org/files/sharepoint/WorkImages/Download/RFF-DP-08-51.pdf>.

China's Governance Context

Eaton, Sarah and Genia Kostka. 2014. Authoritarian Environmentalism Undermined? Local Leaders' Time Horizons and Environmental Policy Implementation in China. The China Quarterly, 218, June, pp. 359-380.

Lo, Carlos Wing-Hung and Shui-Yan Tang. 2006. Institutional reform, economic changes, and local environmental management in China: the case of Guangdong province. Environmental Politics 15,2: pp. 190-210.

Lan, Xue, Udo E. Simonis, Daniel J. Dudek et al. 2006. Environmental Governance in China. Report of the Task Force on Environmental Governance to the China Council for International Cooperation on Environment and Development (CCICED), submitted in November, 2006 at Beijing, read pp. 1-15 and pp. 62-63.

Tang, Shui Yan. 2012. Ten Principles for a Rule Ordered Society: Enhancing China's Governing Capacity. China Economic Publishing House. Read Introduction (pp. 2-11) and Principle's Six and Seven (pp. 60-75), even numbered pages only (odd numbered pages are Chinese translation of the English.)