

Department of Urban Studies and Planning

Highlights

Last year's report celebrated the number one ranking awarded to the Department of Urban Studies and Planning (DUSP) in a national study of graduate urban planning programs. This year we can happily report that we have retained our top position: in June 2008, following a significant overhaul of its ranking methodology, Planetizen (an organization dedicated to exchanging public information on urban planning) again rated DUSP as the top urban planning program in North America. The rankings looked at a number of factors, including measures of student quality, faculty quality, student-faculty ratios, diversity, financial aid, and the rating of the program among both planning professionals and planning educators. Interestingly, DUSP was ranked number one among both practitioners and educators.

This year marked the 75th anniversary of the course in city planning at MIT (although the master's program was not created until 1935, MIT's first city planning course officially began in 1933–1934 as part of the Architecture Department), and we also celebrated the 40th anniversary of the Department's Special Program for Urban and Regional Studies (SPURS). To recognize and celebrate this milestone, the Department sponsored a number of different activities, including:

- A yearlong seminar series on the "History of Planning Ideas" (soon to be assembled into a edited volume)
- An exhibition at the Wolk Gallery, *Changing Cities*, on the Department's history and the growth of cities and city planning over the past 75 years
- A daylong symposium (also titled "Changing Cities") held on April 4, 2008, at the Broad Institute and attended by more than 250 past and present students and faculty
- A gala dinner following the symposium on April 4, held in the Artists for Humanity Epicenter in South Boston, a LEED-platinum building designed by James Bachelor (MCP 1974/MArch 1981)
- The publication of an exhibition catalogue to accompany and memorialize the Wolk Gallery show

The Department also hosted the biannual meeting of the Visiting Committee in 2007–2008, chaired for the first time by Larry Fish. The committee found the Department to be strong, having successfully acted upon the issues raised during the previous visit. In particular, committee members expressed enthusiasm for the high quality of the Department's rising junior faculty, our renewed attention to undergraduate education, the improved health of the Center for Real Estate, and our ongoing efforts to enhance DUSP's diversity. Key concerns highlighted in the report were the need to increase funding for graduate students (especially doctoral students in their fourth year of study), ongoing problems with space allocation (including the overall amount of space allocated to the Department, as well as the fractured nature of that space), and the need to continue to strengthen and build on relations with alumni.

The year saw a successful tenure review for associate professor Balakrishnan Rajagopal and promotions for Lynn Fisher and Lorlene Hoyt to the rank of associate professor without tenure.

In the fall, the Department launched the new Community Innovators Lab (CoLab), a research and development institute focused on understanding the relationships among reflective practice, community development, and social change. This effort grows out of and continues the work of the Center for Reflective Community Practice, and it supports the mission of DUSP by bringing together the best thinking in planning and information technology with the learned experience of community practitioners.

Finally, looking ahead, the Department is entering a period of transition. In September 2006, the dean appointed an advisory committee to assist her with finding DUSP's next department head. In September 2007, with the dean's concurrence, the committee initiated an outside search. Throughout its history, the Department has always generated its leadership internally (though there were failed external searches in both 1955 and 1970). This time, however—largely as a result of the lack of successful tenure cases between 1991 and 2004 that caused a temporary shortage of younger full professors who could be considered for the position of department head—we have looked beyond the corridors of MIT. After an involved, extensive, and extremely participatory search, the committee recommended Amy Glasmeier, professor of geography and regional planning at Pennsylvania State University, who agreed to become the new department head beginning in January 2009. At the request of the dean and the search committee, Lawrence Vale agreed to postpone his sabbatical for six months and stay on as head until then. We will use the interim period to prepare a tenure and appointment case for Professor Glasmeier.

Faculty Awards

Professor Anne Whiston Spirn received a Guggenheim Fellowship to write *Top-Down/Bottom-Up: Rebuilding the Landscape of Community*, a book on her 20 years of experience working with residents of an inner-city neighborhood in West Philadelphia.

Eran Ben-Joseph, associate professor of landscape architecture and planning, has been awarded a commendation by the International Archive of Women in Architecture for *Against All Odds: MIT's Pioneering Women of Landscape Architecture*, a project exploring MIT's influential yet little-known program in landscape architecture.

Associate professor Xavier de Souza Briggs' book, *The Geography of Opportunity*, won the Paul Davidoff Book Award from the Association of Collegiate Schools of Planning.

Associate professor Lorlene Hoyt received MIT's Martin Luther King Jr. Award, and her work with MIT@Lawrence was recognized by the President's Higher Education Community Service Honor Roll and the Ernest A. Lynton Award for the Scholarship of Engagement.

Associate professor Eric Klopfer received the American Institute of Biological Sciences Education Award. The award is presented to an individual (or group) who has made

significant contributions to education in the biological sciences, at any level of formal or informal education. The award recognizes Professor Klopfer and the Scheller Teacher Education Program (STEP), which he directs. Under his leadership, the program has developed an extensive network of K–12 teachers to enhance its efforts.

JoAnn Carmin, associate professor of environmental policy and planning, has been awarded a 2008 Contemplative Practice Fellowship from the Center for Contemplative Mind in Society for her practicum class, 10.28.08 Urban Climate Vulnerability, Adaptation, and Justice.

Mel King, emeritus director of the Community Fellows Program, received the Lewis Mumford Award for Peace, Environment, and Development from Architects/Designers/Planners for Social Responsibility.

Professor Karen R. Polenske won the 2007–2008 Alfred P. Sloan Foundation Industry Studies Best Book Award for her book *The Technology-Energy-Environment-Health (TEEH) Chain in China: A Case Study of Cokemaking* (Springer, 2006). In a letter from the Alfred P. Sloan Foundation, Gayle Pesyna called the book “an absolute exemplar of an industry studies book,” noting that “the book deals with the problem of how changes in production technology are affecting energy intensities, the environment and human health in one of the dirtiest industries in the world.” In July 2007, Polenske was also named a fellow of the International Input-Output Association for her outstanding scholarly contributions to the field.

DUSP’s newest faculty member, Alan Berger (associate professor of urban design and landscape architecture), has been named as part of one of the 10 winning teams selected in an international competition for the future of metropolitan Paris.

The “Digital Water Pavilion,” designed by Professor Carlo Ratti’s SENSEable City Laboratory for the 2008 Zaragoza Expo in Spain, was named by *Time* magazine as one of the “Best Inventions of the Year” in architecture.

At the commencement lunch in June, the DUSP Student Council presented awards to three faculty members: Terry Szold (Excellence in Teaching), Judy Layzer (Excellence in Advising), and Lawrence Vale (Contribution to Student Life).

DUSP’s Contribution to MIT-wide Efforts

The “Responsive City” group convened its lunch series in both fall 2007 and spring 2008. At these weekly meetings, faculty and researchers from across the Institute discussed (and pioneered) the evolution of new technologies for planning and city building, coordinating real-time data and ambient urban information to visualize and manage urban places in more cost-effective, humanistic, and energy-efficient ways. The group collaborated on a proposal for funding under the National Science Foundation’s Integrative Graduate Education and Research Traineeship program.

In April, DUSP and the School of Architecture and Planning jointly sponsored an exhibition in the Compton Gallery titled “Urban Design and Civil Protest.” The

exhibition, curated by Tali Hatuka, Marie Curie research fellow and Fulbright fellow at DUSP, explored “the sociospatial dynamics of protest.”

Coinciding with the opening of Urban Design and Civil Protest, the Department sponsored the first biannual Ross Silberberg (1990) lecture, bringing renowned urban anthropologist James Holston of the University of California, Berkeley, to present a talk and slide show titled “Insurgent Citizenship.” Based on his book of the same name, his presentation in the Bush Room described his fieldwork and research in the urban slums of São Paulo, Brazil, drawing interesting parallels with the gallery exhibition next door.

In addition to individual faculty achievements and the projects mentioned above, DUSP continued to contribute to several MIT-wide efforts: the MIT Energy Initiative, the MIT-Portugal Program, New Century Cities, Campus Planning and Urban Ring initiatives, the MIT International Advisory Committee, the Program on Human Rights and Justice, the Teacher Education Program, various MIT International Science and Technology Initiatives (MISTI) programs, and more.

Professors Lawrence Susskind, Dennis Frenchman, Karen R. Polenske, P. Christopher Zegras, and Eran Ben-Joseph remained active members of the School of Architecture and Planning’s Energy Council. This group was established by Dean Adèle Naudé Santos to ensure the School’s involvement in the campus-wide Energy Initiative. Working across all units of the School, the council recommended multiyear research and teaching efforts focused on the energy-efficient city. The hope is that the School can provide a “demand-side” balance to the supply-side emphasis on the rest of the campus, and DUSP recently appointed MIT alumnus Harvey Michaels to teach new subjects in this area and help coordinate the energy efficiency research of the MIT Energy Initiative. Still to come, we hope, is a greater focus on patterns of city and regional development that can combine with government support of renewable energy sources to reduce reliance on fossil fuels and cut the emission of greenhouse gases. Already, though, it is clear that 2007–2008 will be remembered as a year when an emphasis on sustainable development and responses to climate change have firmly entered the DUSP curriculum and the research mind-set of many DUSP faculty.

Professor Zegras continues as the leader of the Transportation Systems Focus Area of the MIT-Portugal Program, a multiyear research and educational program involving several Portuguese universities and MIT departments.

Professor Frenchman, with professor William Mitchell of the Media Lab and emeritus senior lecturer Michael Joroff, continued a cross-campus interdisciplinary research effort involving design of the “Digital Mile” in Zaragoza, Spain, as part of the New Century Cities initiative. They also continue to serve on the international advisory committee for the project along with distinguished visiting professor Manuel Castells. Also in Zaragoza, the SENSEable City Laboratory and associate professor of the practice Carlo Ratti designed the “waterwall” entrance pavilion to the Zaragoza World Exposition on Water and Sustainability. Professor Frenchman also continues to serve on the MIT Framework and Urban Ring committees, dealing with critical issues facing the campus and its relationships with the Cambridge-Boston community.

The Program on Human Rights and Justice, sponsored by DUSP and the Center for International Studies (CIS) hired a new assistant, organized several human rights talks, cohosted human rights events, and supported seven summer human rights internships with organizations around the world. The summer interns, many of whom were students from DUSP, were supported this year by a grant from the Graduate Student Council and an alumnus. Substantial time and effort were devoted to fundraising.

MIT's Scheller Teacher Education Program gained its new name as the result of a gift from Joseph and Rita Scheller and continues to provide a curriculum leading to teaching licensing for MIT undergraduates, enabling several MIT graduates to teach math and science at the middle school and high school levels, where quality education is sorely needed. STEP continues its cutting-edge research program in educational technologies. For more information on recent STEP activities, visit <http://education.mit.edu/>.

Research and Teaching on Urban Planning

The intellectual life of the Department is organized largely around the activities of four program groups and several cross-cutting research initiatives. The program groups are City Design and Development (CDD); Environmental Policy and Planning (EPP); Housing, Community, and Economic Development (HCED); and the International Development Group (IDG). We have also designated Urban Information Systems (UIS), Transportation Policy and Planning (TPP), and Regional Planning as cross-cutting initiatives intended to bring together faculty from across the four main program groups.

City Design and Development

The CDD group, led by Professor Dennis Frenchman, has had a very busy and eventful year, with news to report on teaching, publications, and a number of special events.

Anne Whiston Spirn completed her third book, *Daring to Look: Dorothea Lange's Photographs and Reports from the Field* (University of Chicago Press, 2008). She is currently working on a new book on her experience in an inner-city neighborhood in West Philadelphia.

The Department was pleased to host jurors for the 10th annual Environmental Design Research Association/*Places* Awards program. These awards specifically recognize both professional and scholarly work in environmental and urban design.

Richard Sennett has written a new book, *The Craftsman* (Yale University Press, 2008), that cuts across disciplines and explores the nature of craft, practice, and quality. In April, Sennett shared some insights into this process when he presented his thoughts at a well-attended book talk as part of the ongoing City Design and Development Forum, launching a successful mini-conference that brought together Sennett's graduate students from MIT and the London School of Economics.

During the January Independent Activities Period (IAP), Dean Santos, Dennis Frenchman, and architecture professor Meejin Yoon conducted a special workshop on retrofitting central Xizhi (Taipei).

In the spring of 2008, Professor Tunney Lee and his planning studio students returned to China's Pearl River Delta, where they have worked since 2005 on issues of sustainable neighborhood development. An interdisciplinary group of planning and architecture students undertook extensive research on selected topics through hypothetical replanning of an existing project, Vanke Town, a 50-hectare housing development. This year's studio report, *Sustainable Shenzhen: Residential Development for Livable Futures*, recorded that planning process and outlined a series of ideas and guidelines for developing a sustainable community in Shenzhen (and other parts of China) in the future (see http://shenzhen.mit.edu/~11.306/wiki/index.php?title=Main_Page).

Students in Eran Ben-Joseph and Terry Szold's 11.360 Community Growth and Land Use Planning course worked for the city of Lowell to produce a report on the Gateway Bridge and the Western Merrimack neighborhood. The students worked with the city and neighborhood to assess existing conditions and create a vision for improvement with both short- and long-term implementation strategies. The plan included consideration of open space, streetscape, transportation, housing and community development, and "catalyst properties."

Professor Eran Ben-Joseph's Site and Urban Systems Planning Studio took 12 DUSP students to Biloxi to work collaboratively with teams from Mississippi State University and the University of Minnesota to address planning and development issues in the Mississippi Gulf Coast region. Students developed proposals recommending how East Biloxi might address low-lying marsh areas and explored how proposed higher density residential development might connect to the existing neighborhoods of East Biloxi.

The newest member of the DUSP family, Alan Berger, formally joined the Department effective January 2008 but will arrive in the fall, following completion of his Rome Prize year at the American Academy. In the meantime, he has produced a new edited volume, *Designing the Reclaimed Landscape* (Taylor & Francis, 2008), that explores "ecologically sustainable thinking about the design and management of reclaimed, postindustrial landscapes."

Lecturer Ann Bookman joined CoLab as a fellow to launch a new project on community design and the aging population.

In addition to serving as department head (his sixth consecutive year in this position), Lawrence Vale completed a substantially updated and expanded second edition of *Architecture, Power and National Identity* (Routledge, 2008). The book examines capital cities and parliamentary districts on every continent (except Antarctica) to explore the relationship between urban design and the formation of national identity. In April, Vale visited Abu Dhabi to help officials think through the plans for a new capital city for the United Arab Emirates (intended to house 350,000 people), and he continues his involvement in Thailand (with professors Frenchman, Ralph Gakenheimer, and David Marks [Course I]), working with the Bangkok Municipal Administration on the new Urban Green Development Institute.

After a long and productive career as an architect, planner, professor, dean, and devoted civic servant, John de Monchaux retired this year. DUSP and the School of Architecture

and Planning honored his career in December at the final session of the City Design and Development Fall Forum dedicated to his work. John will continue to work in the Department as a professor emeritus.

We are saddened to report that Professor J. Mark Schuster (PhD 1979) died February 25, 2008, of complications from melanoma. He was an expert on arts funding policies and a respected leader of First Night and other Boston cultural events. Professor Schuster began teaching at MIT in 1978, becoming an assistant professor in 1984 and a full professor in 1999. The Department worked with his family in a memorial service in Bartos Theater, as well as a “Mass Luminaria” lantern lighting ceremony in Killian Court. Students, faculty, and staff contributed funds for the planting of a pair of memorial street trees. In addition, the Department sponsored a “Thesis Throwdown” celebration in April 2008 to commemorate Professor Schuster’s longtime dedication to the teaching of a thesis preparation subject.

Environmental Policy and Planning

Under the leadership of Professor Lawrence Susskind, EPP began the year with three main priorities. The first was to identify a new faculty member to expand teaching capabilities. After a search, the committee recommended the appointment of Harvey Michaels as a full-time lecturer in energy policy; he will join the faculty in July 2008, teaching a fall semester course on energy efficiency and integrated resource planning and a spring practicum on energy efficiency. He will also assume responsibility for a new MIT-wide study on the future of energy efficiency sponsored by the MIT Energy Initiative. He brings extensive industry experience in the area of enhanced use of information technology to expand residential and commercial energy efficiency.

A second priority was to build a firmer financial base for the MIT-US Geological Survey (USGS) Science Impact Collaborative (“MUSIC”). With support from the MIT central administration and the dean of the School of Architecture and Planning, DUSP appointed an external MUSIC advisory committee to take responsibility for building an endowment to support eight graduate interns each year. In addition, MUSIC was successful in arranging multiyear financial support for a linked set of action-research projects in coastal communities from Maine to Florida and for initiating a global consortium of action-research projects around the world.

The third priority was to catalyze more substantial campus-wide commitment to environmental and sustainability studies. Through participation in the Committee to Assess Environmental Activities at MIT, the work of the Visiting Committee, and DUSP’s leadership in creating the MIT Faculty Environmental Network, the group contributed to the MIT’s new Environmental Initiative.

During the spring sabbatical of Professor Susskind, associate professor JoAnn Carmin served as head of the EPP group. She organized two workshops on environmental capacity building for the European Consortium for Political Research, held in Rennes, France, and Pisa, Italy, and also prepared a background paper on urban climate adaptation in Europe and Central Asia for a forthcoming World Bank report. In the fall, she was invited to present her research on civil society and nongovernmental organizations

(NGOs) in Central and Eastern Europe to government officials and NGO representatives at the Sixth Ministerial Conference, Environment for Europe, held in Belgrade.

Professor Carmin's practicum in Durban, South Africa, assessed how climate adaptation measures could be mainstreamed across the municipality. The class also initiated work on an online tool that will help municipalities around the world learn about how their ongoing activities link to climate adaptation and how they can improve their efforts in this area. Students working with Professor Carmin also updated the "Directory of Environmental Organizations in Central and Eastern Europe" and prepared a summary report on the status of NGOs in the region for the Regional Environmental Center for Central and Eastern Europe.

Professor Judith Layzer teamed up with HCED professor Xavier Briggs to offer a new subject, 11.949 Sustainability in Action. In this course, students were challenged to devise an equitable approach to urban environmental sustainability for the city of Boston. Nearly 20 students enrolled, focusing on planning for one of five specific sectors: buildings and energy, food, transportation, waste, and water. The final projects included a composting program for Boston residents, a suite of projects to encourage local food consumption, a plan for energy-efficient retrofits in foreclosed homes, a website and informational video on work-bike transport, and a plan to convert targeted areas of the city to green space to improve water quality and groundwater recharge.

Professors Layzer and Carmin also initiated the MIT Project on Society, Business, and the Environment hosting a variety of domestic and international research projects and educational activities focusing on how business can become more sustainable. The program was launched with a fall luncheon seminar series bringing five different speakers to campus to share their views.

In January, the Department cosponsored a Sustainable Development Forum with New Ecology Inc., and the Sloan School of Management. Sessions included "Greening Your Business"; "The Role of Governance and Regulation in Promoting Sustainability"; "Living with a Green Building"; "Education for Sustainability"; "Local Tools for Climate Change Action Planning"; "Sustainability at Home"; "Green Building Operations: Healthcare, Schools and Offices"; and "Renewable Energy and Energy Conservation."

In conjunction with the MIT Program on Human Rights and Justice, Professor Susskind and the Traditional Navajo Peacekeepers Project sent a team of students to the Navajo Nation to work on ways to resolve land use, energy, and environmental disputes using traditional peacekeeping techniques along with contemporary mediation tools.

A delegation from the Beijing Law School visited the MIT-Harvard Public Disputes Program in the fall to learn ways to integrate negotiation and dispute resolution into their school's curriculum, with particular attention to how these techniques can be applied to the resolution of land development and environmental disputes in China.

Lecturer Jonathan Raab again offered 11.941 Developing Energy Policies for a Sustainable Future, which attracted students from across the Institute.

Housing, Community, and Economic Development

In the spring, students from the Department returned to Springfield's North End neighborhood, this time with visiting professor Gus Newport. The Springfield Studio, which combines classroom work with an applied class project, focuses on the physical, programmatic, and social renewal of this predominantly Puerto Rican community with strong social networks and a high level of community involvement.

In the largest-ever study of interracial friendship in America, Professor Xavier de Souza Briggs and other researchers found that people who are involved in community organizations and activities and who socialize with their coworkers are much more likely to have friends of another race than those who do not. Briggs' study analyzed data from the Social Capital Community Benchmark Survey, designed and led by Harvard political science professor Robert Putnam. The study appeared in the December issue of *City & Community*, the urban research journal of the American Sociological Association.

In collaboration with PolicyLink and the Citizen Housing and Planning Association, Professor Lorlene Hoyt prepared a report titled "Voices from Forgotten Cities: Innovative Revitalization Coalitions in America's Older Small Cities." Her research highlights the daunting economic challenges faced by smaller industrial cities and the promise they hold, and shows that progress in retooling for economic competitiveness and reinvigorating civic life will come from the creativity and commitment of leaders both old and new. Hoyt also has a new coedited volume, *Business Improvement Districts: Research, Theories, and Controversies* (CRC Press, 2008), that includes a chapter based on her work, entitled "From North America to Africa: The BID Model and the Role of Policy Entrepreneurs."

As part of an increased effort to collaborate across program group lines on issues of urban sustainability, Professor Xavier Briggs teamed up with EPP professor Judith Layzer to offer a new subject, 11.949 Sustainability in Action.

Over the January IAP session, Cesar McDowell, Amber Bradley, and Dulari Tahbaldar explored the field of "progressive planning," and Xavier Briggs offered an introduction to implementation strategies.

International Development Group

In academic year 2007–2008, IDG hosted one of its largest incoming classes of master in city planning (MCP) students in recent memory. The program group continued to work closely with SPURS and with IDG alumni to develop new internship opportunities here and abroad for enrolled students. Formal agreements were made with the United Nations–Habitat Office in Nairobi to host annual summer interns, as well as with the mayor's office in Guadalajara, Mexico, adding to the current opportunities already available.

Professor Diane Davis, IDG group head, joined the newly formed MIT International Advisory Committee chaired by associate provosts Philip Khoury and Claude Canizares. Professor Davis continues her research and writing on cities in conflict and the emergence of violence and crime in cities of the global south, publishing several

chapters in edited volumes and articles in refereed journals, and giving a keynote lecture on the subject at the University of Utrecht and invited presentations at the London School of Economics, the Woodrow Wilson Center, the Council on Foreign Relations, and the Graduate Institute of International Studies in Geneva. In addition, she served as a key consultant for the Canadian Department of Foreign Affairs and International Trade on the topic of urban violence in cities of the developing world. This year Davis was appointed to the Scientific Research Committee of the European Research Council and will serve on that body for the next two years.

Last year's report described MIT's Jerusalem 2050 Program, a joint initiative sponsored by DUSP and CIS and codirected by Professor Davis. This year, the Department was pleased to announce the winners of its global "Just Jerusalem" competition. The open contest sought proposals that addressed different aspects of urban life in a future Jerusalem. Participants were asked to look beyond the current nation-state conflict and instead to focus on "just" the city as a place where, by midcentury, its citizenries coexist in peace. More than 1,150 people representing 85 countries registered for the competition; four winning entries and seven honorable mentions were selected. The selected proposals, or their authors, hailed from all over the world: Malaysia, Austria, the United States, India, Israel, Palestine, China, England, Australia, and Greece. The top winners will receive visionary fellowships at MIT, where they will engage in interdisciplinary discussions about the implementation of their ideas.

The Department's Regional Planning initiative, headed by Professor Karen R. Polenske, continues to emphasize spatial planning. Faculty members and postdocs in this track are active in raising research funding related to regional planning issues in the United States, Brazil, China, Italy, and other countries.

Professor Polenske gave numerous talks during the past year, including presentations at the China Planning Network conference in Beijing, the Metallurgical Coke Summit in Chicago, and the Association of Collegiate Schools of Planning conference in Milwaukee, WI. During the spring term, Professor Polenske was on sabbatical and, in addition to working on a new book on global commodity markets, she gave many lectures abroad, including several in Brazil and three at universities in Italy. She also was one of the keynote speakers at the 10th Uddevalla Symposium in Kyoto, Japan, in May, giving a talk on "Infrastructure Implications of Recycling Industrial Land for Urban Redevelopment in China." In June, Professor Polenske was chair of the "Emergence of Private Land and Housing Markets in Transition Economies" session at the Lincoln Institute Annual International Conference. She also received two major awards during the past year.

Ralph Gakenheimer is completing the preparation of an edited book with Professor Harry Dimitriou (University College London) on urban transportation in the developing world. He is also participating in the development of an MIT seminar on energy and global warming and working with professors Vale, Frenchman, and Marks to help create a new "University for Urban Health" for the Bangkok Metropolitan Administration in Thailand.

Last summer, Alice Amsden published *Escape from Empire: The Developing World's Journey through Heaven and Hell* (MIT Press, 2007). The book draws on her research, fieldwork, and analysis of international economic policies to argue that the more freedom a developing country has to determine its own policies, the faster its economy will grow. Her book was chosen as the gift presented to 2008 MIT commencement speaker Muhammed Yunus. Professor Amsden also offered three IDG courses over the year—11.944 Special Studies: The Analytics of the City, 11.167 Economic Development and Technological Capabilities, and 11.491J Economic Development and Policy Analysis—drawing examples from both advanced and developing countries.

Annette Kim and Lynn Fisher teamed up to offer a two-part course, Comparative Housing Issues. The first half of the course concentrated on the economic theory and analysis of housing markets, while the second half put these theories and tools into practice through comparative case studies from advanced and developing countries.

Susan Murcott again offered 11.479J Water and Sanitation Infrastructure in Developing Countries. The course covered the principles of infrastructure planning in developing countries with a focus on appropriate and sustainable technologies for water and sanitation. Visiting professor Gerardo del Cerro offered 11.426 Cities, Regional Restructuring, and Globalization.

Working with Balakrishnan Rajagopal, associate professor of law and development and director of the MIT Program on Human Rights and Justice, a team of DUSP students in this spring's 11.970 Human Rights in India: Dalits and Sustainable Sanitation practicum class prepared an extensive report and recommendations designed to end the practice of "manual scavenging" (the manual cleaning, handling, and carrying of human excreta, a pervasive practice in India despite its detrimental implications for health and human rights). Students undertook a pilot project in one village in Gujarat, with the notion that if strategies for eliminating manual scavenging could be developed there, they could be spread and scaled up to eliminate the practice more universally.

Professor Zegras taught the core quantitative reasoning class for master's students, a class on integrated transportation and land use planning, and a practicum on Mexico City (with professor Davis). His current research includes a project examining the influence of gated communities on travel behavior in Santiago de Chile, and the travel behavior and residential preferences of "leading-edge baby boomers" (55- to 65-year-olds) in the United States.

Professor Judith Tandler is completing a two-year comparative research project that includes three advanced Brazilian doctoral researchers from DUSP and is supported by the World Bank, the UK Department for International Development, and MIT. This is the fifth and largest such research project, which in total have involved roughly four dozen DUSP graduate students and various theses and publications. In recognition of these projects, MIT awarded Tandler two Institute-wide prizes—the Irwin-Sizer and the Class of 1960 awards—and a research chair for outstanding achievement in combining her field research with graduate education. The current research project, *The Rule of Law, Economic Development, and the Modernization of the State in Brazil*,

builds on the methodology and style of the previous projects; it aims to draw lessons for policy and practice to be learned from patterns running across various cases in which compliance by firms with environmental, labor, and other regulations did not jeopardize competitiveness and, indeed, sometimes even enhanced it—contrary to what often happens or, at least, is alleged to happen. Findings so far have been discussed at workshops in Brazil, Europe, and Washington, DC, as well as Stanford University and MIT. Professor Tandler has continued her advisory and research relationship with the Centre for the Future State at the Institute of Development Studies, University of Sussex, and its funder, the UK Department for International Development. Tandler continued to offer her courses, 11.471 Political Economy of Development Projects, focusing during the last two years on subnational economic development, and 11.235 Analyzing Projects and Organizations, which brings to bear the sociological and political science literature on organizations and bureaucracy on planning challenges.

Urban Information Systems

UIS research and teaching continues to examine and shape the growing impact of information and communications technologies (ICT) on urban planning, metropolitan governance, and our sense of community. ICT has greatly facilitated the capacity to study neighborhood-scale planning interventions and to understand and model the key factors that influence urban spatial structure and use patterns. Advances in information technologies have also enabled the location and spatial interaction of people, buildings, and events to be tracked, modeled, visualized, and manipulated as never before. The result has been a rapid growth of new opportunities and risks.

Some UIS-related research has already been described above under the various program groups and centers, including the MIT@Lawrence work with community groups on urban revitalization and the SENSEable City Lab work on the social networking and urban design implications of mobile technologies in urban environments served with high densities of sensors. In addition, UIS-affiliated faculty have also been researching collaborative information infrastructures for community and metropolitan planning, new models of urban spatial structure and land use and transportation interactions, and improved methods for participatory planning. Most of these projects have involved master's students, Undergraduate Research Opportunities Program students, and PhD students, and several have provided the real-world context and partners for class projects, workshops, and seminars.

In February, researchers and designers from the SENSEable City Lab, headed by Professor Carlo Ratti, participated in a show at New York's Museum of Modern Art titled "Design and the Elastic Mind." The group's submission, "New York Talk Exchange," used computer visualizations and real-time urban data to reveal the complex dynamics of talk that exist between New York and other cities around the globe.

Students in Professor Karen R. Polenske's 11.482J Regional Socioeconomic Impact Analysis and Modeling class presented their final projects to Boston Development Authority officials. Research projects included "The Urban Ring in Context" and "Green Building."

Transportation

In January, DUSP students and faculty presented at several sessions of the 2008 Transportation Research Board conference in Washington, DC. The sessions included work by Professor Chris Zegras and a number of current and past students including Tegin Teich (sustainable transportation in Chihuahua, Mexico), Frank Hebbert (travel mode decisions in aging communities), Francesca Napolitan (urban freeway removal), and David Block-Schachter (travel strategies for MIT in response to rising parking costs [with John Attanuchi of the Center for Transportation and Logistics]).

Professor Zegras continues his research into the travel behavior of older adults in suburban residential communities. Working with Professor Eran Ben-Joseph and Joe Coughlin at the MIT AgeLab, the team examined aging baby boomers' travel behaviors and neighborhood design preferences in four different urban edge neighborhoods in the Boston metropolitan area.

Motivated by the problem of rising costs for parking subsidies on campus, and eager to create a more sustainable policy for their institution, a group of DUSP and master of science in transportation graduate students and faculty participated in a special studies course that led to a proposal to help control costs for the university and increase the use of public transportation to campus.

Graduate Degree Program Enrollment and Activities

The Department's graduate programs enrolled 68 new MCP students, three new SM students, and eight new doctoral students this year. Of the 185 students, 52% were women, 34% were international students, and 15% of US domestic students were members of underrepresented minority groups. The Department granted 65 MCP, 2 SM, and 13 PhD degrees.

MCP Committee Activities

The MCP Committee continued to focus on improving thesis advising, expanded use of online modules to prepare incoming students, modifications to the admissions process to make it more consistent among units of the Department, development of more robust career advising linked to academic advising, and changes to material sent to incoming students. By the end of the semester, the committee had also begun working on changes to the quantitative reasoning requirement and the introductory class on geographic information systems.

PhD Committee Activities

The PhD Committee fully implemented the revised structure of the general exams with a set schedule and modified first fields. Each of the approved six fields (city design and development, international economic development, urban information systems, public policy and politics, urban and regional economics, and urban sociology) are now fully integrated with sets of required readings and classes. The committee also implemented two web-based tools, a wiki and a Stellar site to facilitate communication and resources related to curriculum, procedures, and professional development.

The committee continued to advocate for and to allocate financial resources and to make sure that admitted students would indeed enroll in our program. The fall 2008 incoming class will be our largest in some time, with seventeen students expected to enroll. Finally, the committee continued its support of a regular, once-a-week afternoon social gathering for PhD students and faculty and arranged two town hall meetings to discuss issues and ideas.

DUSP continued to publish *Projections*, the journal of the MIT Department of Urban Studies and Planning. *Projections 7* (“Institutional Innovations for Development”), edited by Rajendra Kumar, Anjali Mahendra, and Georgeta Vidican (PhD 2008), was published in May 2008. The student editorial team has completed *Projections 8* (“Justice and Sustainability as a Framework for Planning and Action”), edited by Isabelle Anguelovski, Anna Livia Brand, and Rachel Healy, which is due to be published this summer. An editorial team has been appointed for *Projections 9*, and papers are currently being reviewed. The editors also established a *Projections* seminar and film series that ran through the 2007–2008 academic year.

Undergraduate Program Activities

During 2007–2008, the Undergraduate Committee continued to work on raising the visibility of DUSP among MIT’s undergraduates. Eight freshmen declared an urban studies and planning major this year (down from a high of 11 in the previous year but still part of an overall upward trend).

Ten undergraduate students in the 4.001J CityScope class, now in its second year, traveled to Peru for a project-based introduction to Tambo de Mora, a town recovering from a devastating earthquake. These students, under the direction of J. Philip Thompson (DUSP), John Fernandez (Architecture), and Cherie Abbanat (DUSP), worked on a number of different projects including plans to help rebuild with different materials that may be better suited to this earthquake-prone region, micro businesses development, and a video and story-telling project to document local history.

Another major attraction of DUSP for undergraduates is the City to City subject, taught by Cherie Abbanat. This year eight students traveled to Florence, Italy, to compare urban design, architecture, and city planning issues and problems there to those found in Boston.

Professor Robert Fogelson continued to offer his two-semester 11.013J American Urban History course, introducing students to the physical, social, architectural, and economic history of cities, ranging from political machines, police departments, courts, schools, prisons, and universities to parks, zoos, housing, suburban development, downtowns, and skyscrapers. He also offered his long-running 21H.104J Riots, Strikes, and Conspiracies in American History and 21H.234J Downtown courses.

Anne Beamish’s 11.123 Big Plans course explored the social, technological, political, economic, and cultural implications of large-scale planning in the urban context. Local and international case studies (such as Boston’s Central Artery and the bus transit system in Curitiba, Brazil) were used to understand the process of making major changes to a city’s fabric.

Over the coming summer, the Department will participate for the first time ever in MIT's Freshman Pre-Orientation Program, offering a three-day "Discovering Urban Studies and Planning" session designed by Judith Layzer and Ezra Glenn. We expect that this project will lead to increased interest in the major among undergraduates.

Student Awards

Our students received a large number of awards this year from the Institute, national and international organizations, and the Department.

Departmental Awards

- Outstanding Contribution to the Intellectual Life of the Department: Frank Hebbert, Ben Solomon-Schwartz; honorable mention: Kristen Hall
- Student Award for Departmental Service: Frank Hebbert; honorable mention: Students of Color Committee (Eric Brewer Garcia and Bryant Tan)
- Outstanding PhD Dissertation: Erin Graves ("Constructing Community: Class, Privatization and Social Life in a Boston Mixed Income Housing Development"), Georgeta Vidican ("Institutional Arrangements and Land Reallocation During Transformation: A Regional Analysis of Small Farms in Romania"); honorable mention: Monica Pinhanez ("Reinventing VAT Collection: Industry Vertical Assessment, Revenue Increase, and Public Sector Reliability")
- Outstanding MCP Thesis: Sai Balakrishnan ("Desired Outcomes, Unexpected Processes: Two Stories of Sanitation Maintenance in Erode Tenements, India"); honorable mention: Marisa Arpels ("Using Climate Policies and Carbon Markets to Save Tropical Forests: The Case of Costa Rica")
- O. Robert Simha Prize: Beth Williams ("Overcoming Barriers to Energy Efficiency Rental Housing")
- Flora Crockett Stephenson Writing Prize: Nithya Raman, Amy Stitely
- Outstanding Undergraduate Thesis: Dorri Ziai
- American Institute of Certified Planners Outstanding Student Award: Frank Hebbert
- Rolf R. Engler Award for Outstanding Service by Support or Administrative Staff: Sandy Wellford, Karen Yegian; honorable mention: Phil Sunde
- Lloyd and Nadine Rodwin Travel Awards: Phuong Anh Bui, Roberto Guerrero Compean, Madhu Dutta-Koehler, Weifeng Li, Topher McDougal, Kyung-Min Nam, Oyebanke Oyeyinka
- William Emerson Travel Grants: Patricia Acosta, Oreoluwa Alao, Rana Amirtahmasebi, Sai Balakrishnan, Luis Ballesteros, Anna Brand, Derek Brine, Ronilda Co, Nicholas DuBroff, Madhu Dutta-Koehler, Kristina Katich, Sabra Loewus, Rachel Mercier, Kyung-Min Nam, Priyanka Shah, Tegin Teich

MIT Awards

- DUSP-Public Service Center Summer International Internship: Phuong Anh Bui, Deborah Wei Mullin, Alexa Edwards Rosenberg, Amit Sarin, Amruta Sudhalkar
- MISTI-Mexico (Instituto Nacional de Ecología, Mexico): Lauren Oldja
- MIT Center for International Studies Summer Study Grant: Rachel Healy
- MIT Community Catalyst Leader: Angelica Weiner
- MIT-India National Science Foundation Award: Amit Sarin
- Program on Human Rights and Justice 2007 Summer Internship Award: Isabelle Anguelovski, Anna Livia Brand, Ronilda Co, Rodrigo Diaz, Cheryl Yip
- Program on Human Rights and Justice 2008 Summer Internship Award: Phuong Anh Bui, Deborah Wei Mullin, Christina Santini
- Public Service Center IAP Fellowship: Amit Sarin
- Aga Khan Program for Islamic Architecture Travel Grant: Alexa Edwards Rosenberg
- Martin Family Society of Fellows for Sustainability: Isabelle Anguelovski

National/International Awards

- Chicago Mayor's Office Fellowship: Molly Ekerdt
- Federal Home Loan Bank of Boston 2008 Affordable Housing Development Competition, First Place: Virginia Flores (DUSP, MCP), Jesse Kanson-Benanav (DUSP, MCP), Benjamin Power (DUSP, MCP), Kate Wittels (School of Architecture and Planning, MSRED) (Terry Szold, faculty advisor)
- Federal Home Loan Bank of Boston 2008 Affordable Housing Development Competition, Second Place: Omari Davis, Catherine Duffy, Eric Gonzalez, Pedram Mahdavi, Andrew Trueblood (Eran Ben-Joseph, faculty advisor)
- JP Morgan Chase Community Development Competition, First Prize: Holly Jo Sparks, Lakshmi Sridaran (joint MIT/Washington University team)
- Mary Fran Myers Scholarship Award (Natural Hazards Center, Boulder, CO): Molly Mowery
- Mustard Seed Foundation Harvey Fellowship: Shutsu Chai
- Prafulla Mohanty Scholarship: Madhu Dutta-Koehler
- President's Higher Education Community Service Honor Roll: Professor Lorlene Hoyt and MIT@Lawrence team (Jeff Beam, Eric Brewer-Garcia, Lyndsay N. Carlisle, Madhu Dutta-Koehler, Carlos Espinoza-Toro, Debmalya Guha, Jesse Kanson-Benanav, Marilia Magalhaes, Pedram Mahdavi, Danielle Martin, Alexa Mills, Miguel Paredes, Laura Rothrock, Anne Schwieger, Holly Jo Sparks, Amy Stitely, Amruta Sudhalkar, Laurie Tamis, Kohichi Yamagishi)
- Rappaport Public Policy Fellows: Victoria Wolff, Kathleen Ziegenfuss

- Social Science Research Council Dissertation Proposal Development Fellowship: Annis Whitlow
- Truman Scholarship Finalist: Angelica Weiner
- Urban Land Institute Gerald D. Hines Student Urban Design Competition (honorable mention): Blair Humphreys, Jesse Hunting, Sarah Snider (Tunney Lee, faculty advisor)
- World Bank Junior Young Professional (Africa Division): Chen Zhiyu

Outreach to Alumni

Local alumni continued to play an active role in sponsoring internships for students, providing career advice at the alumni career forums organized by each of the program groups, and participating as guest lecturers in numerous classes. Alumni across the country offered summer positions for current students and served as employers for recent graduates. Alumni also participated on a key discussion panel during orientation for incoming students in August 2007. They continue to play a role in the implementation of the practicum requirement, a significant element in the revised MCP core curriculum.

The Department celebrated the 75th anniversary of the course in city planning at MIT, which provided multiple opportunities to connect with alumni (including a special evening reception for the 25th anniversary MCP class of 1983).

The Department head continued his regular monthly alumni emails, which included Department-wide information as well as School-wide activities and news updates.

In fall 2007, alumni again assisted in DUSP student recruitment efforts by joining faculty and current students at open houses in Atlanta and San Francisco, as well as other graduate school recruitment events around the country. The Department also hosted receptions at the annual conferences of both the American Planning Association (Las Vegas) and the Association of Collegiate Schools of Planning (Milwaukee), which provided venues to catch up with alumni from across the country.

The Department's website (<http://dusp.mit.edu/>) underwent a significant redesign by Duncan Kincaid and now includes a section dedicated to alumni news, as well as more current news postings and calendar items to keep alumni involved in events both on and off campus. The DUSP career resources website continues to serve alumni and current students seeking continued professional development, as well as meeting the needs of potential employers of DUSP students and graduates.

In June, Professor Ralph Gakenheimer addressed the Iberoamerican MIT Alumni Conference in Cancún, Mexico. Alumni once again participated as panelists in each of the four annual alumni career forums associated with the Department's four program groups.

The Department proudly presented the sixth annual Excellence in Public Service Awards to Christine Gaspar (MCP 2004) and Carrie Grassi (MCP 2006).

The Department is currently working with several alumni in New York City to organize a two-part symposium in fall 2008 that would bring together current students and New York alumni first on campus and then on location in New York City.

International Connections

This year marked the 40th anniversary of SPURS. In its 40-year history, SPURS has hosted more than 550 midcareer professionals from more than 90 countries in Latin America, Asia, Africa, the Middle East, and Eastern and Central Europe. SPURS alumni hold senior-level positions in both the public and private sectors in their countries.

To commemorate the SPURS 40th and DUSP 75th anniversaries, the theme for this year's Monday Seminar Series was "The History of Planning Ideas." The Department invited top academics and practitioners in urban planning to discuss how ideas in planning take shape and move across time and context. The broad objectives of the series were to explore the trajectories of powerful planning ideas in an increasingly interconnected world and to gain an understanding of the roles of individuals and institutions, including governments, business firms, professional groups, universities, and civil society groups in framing planning problems and ideas. The series speakers included academics and prominent public intellectuals: Gary Hack, June Manning Thomas, Neil Brenner, Mohammad Qadeer, Merilee Grindle, Lynne Sagalyn, Niraj Verma, Timothy Beatley, Raphael Fischler, Robert Fishman, Patsy Healey, Bob Yaro, and Michael Teitz. Their papers will be published in a volume edited by Bish Sanyal, Lawrence Vale, and Christina Rosan.

In addition, we have created a SPURS Advisory Committee composed of top-ranking MIT professors with an interest in international development and education. The purpose of the Advisory Committee is to further strengthen SPURS, raise its intellectual profile, and help develop innovative projects that engage our alumni in ongoing relationships with each other and with MIT. By including members of the MIT faculty from all schools in the governance of SPURS, we are able to think creatively about the types of linkages that can be made between SPURS and the rest of MIT.

In 2007–2008, SPURS hosted 16 midcareer fellows from around the world. Eleven of the fellows participated in SPURS as part of the Hubert H. Humphrey Program sponsored by the US Department of State. The SPURS/Humphrey fellows represented the following countries: China, Korea, Brazil, Colombia, Bhutan, India, Nepal, Palestine, Iran, Guatemala, Azerbaijan, Mexico, and Paraguay. Their research interests covered a variety of areas, including transportation planning and policy, technological development and policy, urban development, public-private partnerships, geographical information systems, and environmental policy.

Our fellows continue to build strong connections with MIT undergraduates, particularly through our relationships with the International House and Simmons Hall. As a result, two MIT undergraduate students are spending the summer teaching science to high school students in Paraguay and helping to design a better science and technology curriculum for Paraguayan schools. In addition, Humphrey fellow Angela Mjojo received \$2,000 from MIT's Public Service Center to help start a computer lab in

Malawi. Another MIT undergraduate is spending the summer working in Malawi on development projects through Angela's connections.

SPURS continues to collaborate with the midcareer Loeb fellows at the Harvard Graduate School of Design. The relationship between the two groups of fellows provides an opportunity for shared learning and comparisons between domestic and international approaches to urban planning.

In April, the Department hosted a delegation of planning educators from the Ha Noi Architectural University in Vietnam interested in learning from American models for planning education. The visit was coordinated by the University of Hawaii at Manoa.

Professors Diane Davis and Chris Zegras returned to Mexico City for another year of their practicum class. Students interested in urban development participated in a wide range of policy and research projects related to transportation and urban planning.

During the January IAP session, visiting scholar Anat Biletzki will offer a case-study course on human rights in the Middle East.

Community Partnerships

This year saw the successful launch of the Community Innovators Lab, an outgrowth of the Center for Reflective Community Practice, focuses on urban community partnerships. Its work explores technological infrastructure and community information systems as intrinsic components of that research agenda. CoLab brings research in reflective practice to community work to effect social change, and brings community practitioners to MIT to enrich the learning environment for students and faculty. CoLab uses community-based knowledge, academic resources, and information technologies as tools to transform community development practice.

Through CoLab and the Department's Practicum Committee, students and faculty have worked on client-based projects for communities around Massachusetts (Lawrence, Springfield, Lowell) as well as hurricane-affected areas in the Gulf Coast region (Biloxi, New Orleans) and earthquake-ravaged Peru.

An emerging CoLab project, the Black Intensive Civic Engagement Project, seeks to strengthen traditional voter registration/GOTV efforts by working with local and national groups to make connections between short-term voter registration efforts and the more long-term task of building black civic capacity and engagement. CoLab works with a select group of community and national organizations to structure an ongoing discursive process that enables activists to collectively develop a deeper critique of current circumstances and a language to capture what is happening in black communities as a whole.

The goal of another CoLab effort, MarketShare, is to improve the ability of NGOs to use market mechanisms to support comprehensive community transformation and increase the resources available to sustain democratic involvement over time. The poor have access to assets that rarely are considered among the resources available for social

change. With the appropriate brokering partnerships in place, many of these assets could be developed to build sustainable organizations and begin using market tools to directly address market failures. In partnership with key Ford Foundation–supported community groups, CoLab and DUSP faculty are now developing a set of multiyear practica to explore collaborations that create new business models to address these issues and generate sustainable streams of resources for community engagement.

In addition to its work with communities, CoLab supports opportunities for leading community practitioners to attend seminars at MIT to learn how to bring reflection into their work. CoLab also works with grant-making organizations to promote learning practices with grantees working to effect community change.

A joint team of MIT/Washington University (St. Louis) students were awarded first place in the JPMorgan Chase Community Development Competition for their efforts with the Good Work Network in New Orleans. Lecturer Karl Seidman and his students in 11.437 Financing Economic Development worked with their nonprofit client to create a development plan to reuse the historic Franz Building in Central City as a nonprofit business incubator. The award came with a \$25,000 prize, to be used as seed money to initiate the proposed \$2.1 million renovation. Two DUSP students, Lakshmi Sridaran and Holly Jo Sparks, represented MIT on the team.

Research Funding

Faculty and staff raised \$3,017,834 in new sponsored funds for research and other projects in FY2008.

Professor Lawrence Susskind, in collaboration with Dr. Herman Karl, visiting lecturer from USGS, raised \$204,370 from USGS and other federal agencies for continued support of the MUSIC program.

Carlo Ratti, director of the SENSEable City Lab and associate professor of the practice, raised an initial \$150,000 as part of a new consortium supporting the lab's activities. This year one of the main projects supported was the Digital Water Pavilion at the Expo in Zaragoza, Spain. The AT&T Foundation granted \$150,000 in support of the New York Talk Exchange project, an installation in the Design and the Elastic Mind exhibit in New York's Museum of Modern Art. Professor Ratti, as co–principal investigator, was granted \$253,967 from the Portuguese Science and Technology Foundation through the MIT-Portugal Program. He also serves as a co–principal investigator on a National Science Foundation project (Foundations for Reconfigurable and Autonomous Cyber-Physical Systems: Cyber-Cities and Cyber-Universities) administered through the Laboratory for Information and Decision Systems, with an award of \$43,498 for his portion of the project.

Dayna Cunningham, executive director of CoLab, received a series of three grants from the Ford Foundation totaling \$1.15 million, supporting the Black Intensive Civic Engagement, Supporting Participatory and Inclusive Neighborhood Rebuilding in New Orleans, and MarketShare projects. The Nathan Cummings Foundation awarded two grants to CoLab: \$100,000 for ORM/MIT Partnership: Greening New Orleans and \$100,000 for the MIT Green Hub project. The Lord Foundation awarded \$50,000 for

the Green Hub Executive Education Program, and the Marguerite Casey Foundation awarded \$50,000 for the Supporting a Movement of Low Income Families project.

Professor Eric Klopfer, director of the Teacher Education Program, was awarded six grants in FY2008 totaling \$696,511. He received a Hewlett Foundation grant of \$200,000 for Exploring International Game-Based Language Learning, a Fablevision grant of \$70,000 for the Children's Hospital Trust website project, a SimBiotic Software grant of \$58,511 for Evo Beaker II: Assessing Simulations for Teaching Evolutionary Biology, a Missouri Botanical Garden grant of \$125,000 for LIONS: Local Investigations of Natural Science, a grant of \$80,000 from the Columbus Zoo and Aquarium in its continued support of the Augmented Reality project, and a Battelle Pacific Northwest Laboratory grant of \$163,000 for the DHS Centers Science in Middle School STEM Education project.

Professor Karen Polenske received a grant of \$100,000 from BP Technology Ventures Inc., through the MIT Energy Initiative, for her project titled Climate Change and China Regional Energy-Intensity Trends.

Professor Eran Ben-Joseph received a subaward of \$19,488 from Purdue University on a National Institutes of Health grant, Exploratory Study of Environmental Effects on Activity/Overweight in Older Women.

Professors Dennis Frenchman and Chris Zegras were awarded \$50,000 from BP Technology Ventures Inc., through the MIT Energy Initiative, for China Urban Design Studios.

Other Funding

Principal research scientist Thomas J. Piper raised \$100,000 of additional funding from various sponsors for the project FutureBoston: What Next for Boston in the First Decades of the 21st Century?

Professor Philip Thompson raised \$40,000 from the MIT Provost's Office in support of a concept paper on green cities innovation.

Carlo Ratti received a gift of \$71,000 in support of the work of the SENSEable City Lab.

Professor Karen R. Polenske raised \$100,000 from BP Technology Ventures Inc. for her Regional Energy Intensity Trends in China seed research project and \$70,000 from the US Department of Agriculture for her U.S. Energy and Food Security research project.

Frank Levy received a Robert Wood Johnson Investigator Award of \$334,000 to study attempts to curb the overutilization of medical imaging.

Lawrence J. Vale
Department Head
Professor of Urban Studies and Planning

More information about the Department of Urban Studies and Planning can be found at <http://dusp.mit.edu/>.