

Dean, School of Architecture and Planning

The School of Architecture and Planning is comprised of five main divisions:

- The Department of Architecture, the first such department in the nation (1865), which came to be known as a leader in introducing modernism to America
- The Department of Urban Studies and Planning (DUSP), which began as the Program in City Planning in 1932 and was the second of its kind in the country, and has evolved into the longest continuous planning program in the United States
- The Media Laboratory, the birthplace of multimedia computing (1985), which has come to be known around the world as a first-class incubator of new design ideas
- The Center for Real Estate, which established the nation's first one-year graduate program in real estate development (1984), becoming recognized worldwide as a leader in the field
- The Center for Advanced Visual Studies (CAVS; 1967), which pioneered the use of technologies such as lasers, plasma sculptures, sky art, and holography as tools of expression in public and environmental art and is now a thriving fellowship program

The unifying theme of our activities is design. Through the design of physical spaces, and through the design of policies and technologies that shape how those spaces are used, we aim to sustain and enhance the quality of the human environment at all scales, from the personal to the global.

What follows are some of the highlights from the year. For more information, consult the divisions' individual reports.

Campus-wide Activities

The School continued to play an important part in the life of the Institute as a whole this year. Leon Glicksman continued as a member of the Energy Council of the MIT Energy Initiative and cochaired the MIT Campus Energy Task Force, a group seeking to reduce energy use and carbon creation; Les Norford represented the School on the provost's Race Initiative Committee; and Chris Zegras continued as the leader of the Transportation Systems Focus Area of the MIT-Portugal Program.

John Fernandez, Philip Thompson, and Cherie Abbanat cotaught 4.001J/11.004J CityScope, the campus-wide undergraduate subject now in its second year. Ten undergraduate students traveled to Peru for a project-based introduction to Tambo de Mora, a town recovering from a devastating earthquake.

In August, the Department of Architecture participated in the Freshman Pre-Orientation Program by offering "Discover Architecture," a three-day program of fun exploration for incoming freshmen. The program included a sandcastle competition and clam bake on Crane's Beach in Ipswich, faculty presentations on current research, a

tour of newly constructed buildings in Boston, and a tower building competition using recycling materials.

The department also sponsored a number of other activities for undergraduates or their parents, including Jan Wampler's talk and reception at Family Weekend, an open house for freshmen and pre-freshmen, a new-major orientation program, and senior thesis presentations. The first annual Design/Build Competition, an open competition for undergraduates of all levels to submit a sculpture design to a faculty panel, was held in April. The chosen design will be built by the winning team on the MIT campus.

A group of planning students and faculty took part in a special studies course motivated by the problem of rising costs for campus parking subsidies, resulting in a proposal to help control costs for the university and increase the use of public transportation to campus.

The Responsive City group convened a lunch series in both the fall and spring at which faculty and researchers from across the Institute discussed (and pioneered) the evolution of new technologies for planning and city building.

More than 200 undergraduates from across the Institute participated in a wide variety of research projects at the Media Lab, with many of these students pursuing their undergraduate theses under Media Arts and Sciences (MAS) faculty supervision. All of them are enrolled in degree programs outside the Media Lab's academic program, as are 16 of the lab's graduate students. In addition, the MAS program offered five undergraduate subjects, and three MAS faculty and/or senior staff members conducted freshman seminars or served as freshman advisors.

Now in its ninth year, the MAS alternative freshman-year program enrolled 25 students in 2007–2008 (35 students applied to the program, and a lottery was held). These students participated in weekly Media Lab tutorial/lab sessions connected with two core freshman subjects, pursued Media Lab Undergraduate Research Opportunities Program projects, and took two MAS undergraduate subjects on design and research, one of which is an option for satisfying part of the undergraduate Communication Requirement.

In an ongoing CAVS program, any MIT graduate student who considers himself or herself an artist may apply for studio space at the center, a small grant for materials, and studio visits from the center's staff. In turn, he or she helps link CAVS and visiting artists to his or her home department or laboratory. This year PhD candidate Tad Hirsch performed ongoing research into models of participation and civic engagement afforded by mobile communications technology.

CAVS visiting artists meet with undergraduates, graduate students, and professors in the Department of Architecture, the Media Lab, the Sloan School of Management, the Department of Linguistics, the programs in History, Anthropology, Science, Technology, and Society, and more.

Education

Architecture

A new curriculum for the Master of Architecture (MArch) program was implemented this fall, and the Architecture Department's other degree programs were reexamined and refined. Design was rethought in many ways, providing a clearer and more rigorous structure for the MArch program's core studio sequence; with respect to the advanced graduate design studios, efforts were made to directly address contemporary issues in architecture regarding the city, culture, technology, and the environment.

An increased number of subjects addressed the issue of energy and sustainability, and Yung Ho Chang held a series of "green curriculum" meetings with the intention of making the design curriculum more responsive to climate change. The UrbLab program was expanded to India this year with a workshop and design studio in the southern town of Erode, both cotaught by Dean Adèle Naudé Santos.

The architecture design stream added a new studio to the required sequence—4.112 Integrated Architecture Design Studio—bringing the total number of studios required to six. In addition, a new subject in contemporary architecture has been included—4.205 Analysis of Contemporary Architecture—taught from the design perspective. The new curriculum will become effective for the class of 2012.

The History, Theory, and Criticism Program (HTC) continued to support close collaboration with colleagues in design, with a special focus on the MArch program. For example, HTC doctoral students served as teaching assistants for MArch subjects and the HTC student-run research-in-progress conference included many more presentations from design students than in previous years, pairing MIT students with those from the Harvard Graduate School of Design and with faculty commentators from both programs.

In response to the desire for greater intellectual rigor and independent thinking, all of the degree programs other than architecture design will now require a thesis and a thesis preparation class, increasing the total number of units required for the degree from 183 to 192. In architecture design, theses are optional but encouraged with the addition of a thesis preparation subject.

Effective with the 2007–2008 academic year, MArch students can complete a directed thesis within a studio under the recommendation of their thesis preparation professor; a majority of MArch students will still pursue independent theses.

In response to the changing needs of students, the demands of the profession, and a desire for greater intellectual rigor, curriculum improvements to all four of the existing SB in art and design discipline streams (architecture design, building technology, visual arts, and history, theory, and criticism of architecture and art) were proposed and approved by the Committee on Curricula. In addition, Terry Knight spearheaded a new discipline stream in the area of computation. To maintain consistency within the undergraduate programs, similar changes were made to the unspecified SB.

The department made a significant change in its student financial aid system under the leadership of the Committee on Graduate Students. At the end of their first year, all master's students admitted without financial aid may now compete for a limited number of merit-based half-tuition fellowships for the remainder of their degree program. We continue to provide the opportunity for all continuing master's candidates to apply for a limited number of one-year merit-based full tuition scholarships.

A generous gift honoring frequent HTC visiting faculty members Nancy Stieber and Helene Lipstadt established a fund to support scholarly seminars.

As of October 2007, Course 4 counted a total of 274 students: 50 undergraduate students, 95 MArch students, 45 SMArchS students, 2 SMBT students, 10 SMVisS students, 39 resident PhD students, 13 nonresident PhD students, 19 Center for Real Estate students, and 1 special (nondegree) student. In addition to these students, 5 SMArchS dual-degree students were registered in DUSP as their home department in October 2007, and 1 SMBT student was counted in the Engineering Systems Division's Technology and Policy Program.

Planning

The department's graduate programs enrolled 68 new MCP students, 3 new SM students, and 8 new doctoral students this year. Of the 185 students in the department, 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. Eight freshmen declared an urban studies and planning major this year (down from the record high of 11 in the previous year but still part of an overall upward trend).

Professor Judith Layzer teamed with Professor Xavier Briggs of the Housing Community and Economic Development program group 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.

Media

A total of 116 students—57 master's candidates and 59 doctoral candidates—were enrolled in the MAS graduate program during the 2007–2008 academic year. The MAS graduate student community included 23 women, 12 members of underrepresented minority groups, and 48 foreign students.

During the year, 51 advanced MAS degrees were awarded (37 master's and 14 doctorates). MAS received 361 applications to the graduate program and offered admission to 44 new students (including 7 women). Forty-two students (including 6 women) enrolled.

Real Estate

During FY2008, the Class of 2007 graduated, the Class of 2008 matriculated, and the Class of 2009 was admitted. The yield rate for the master of science in real estate development Class of 2007 was 78%; rates for the Class of 2008 and the Class of 2009 were 86%; and 83% respectively. The Class of 2009 is composed of six women and 27 men, the average age is 29 years; 14 members of the class are from countries other than the United States.

The Center for Real Estate sponsored lecturer John Macomber in his efforts to develop a new course on sustainability. The course, which was offered for the first time during the first half of the spring semester, seeks to equip students to be effective contributors to sustainable real estate development, redevelopment, and management.

During FY2008, the center's professional development program reached beyond the summer and beyond Cambridge. This year the center offered courses in January and February and in New York City, and almost 200 people attended classes in Mumbai, Bangalore, and Delhi, India.

Visual Studies

John Bell, theater historian, puppeteer, and cofounder of Brooklyn-based avant-garde theater group Great Small Works, arrived at CAVS in the fall of 2007. During his fellowship, he taught a class cosponsored by Music and Theater Arts and collaborated with CAVS artists and MIT graduates and undergraduates to produce *Definitely Maybe*, a toy theater play performed during the Great Small Works 8th Annual Toy Theater Festival at the prestigious St. Ann's Warehouse, Brooklyn, NY.

Meanwhile, visiting artist Damon Rich of the Center for Urban Pedagogy worked on an exhibition titled "Red Lines, Death Vows, Foreclosures and Risk Structures" that takes on the history of home finance in the 20th century. The exhibition will open at the MIT Museum's Compton Gallery in fall 2008 and will include five curricular and public programs. A tour and publication are under development.

Research

Architecture

MIT's Open Source Building Alliance, directed by Kent Larson of the Department of Architecture, embarked upon a collaboration with New Hampshire builder Bensonwood Homes and other industry partners to develop and test a process for creating highly responsive homes. A series of four prototypes will be designed and built, one every 18 to 24 months.

Leon Glicksman and Les Norford carried out research on the Abu Dhabi Masdar project to develop energy-efficient air conditioning systems and design tools as well as to plan a monitoring program for the initial phase of construction. Norford worked on the MIT-Singapore Program and studied the heat island influence of a built-up environment.

Planning

In the fall, the department launched the new Community Innovators Lab, a research and development institute focused on understanding the relationships among reflective practice, community development, and social change.

In the spring, four proposals for the future were chosen as winners in an international competition sponsored by the Jerusalem 2050 Program, a joint initiative of DUSP and the Center for International Studies. The winning teams will be in residence at MIT in the fall to discuss implementation of their ideas.

In collaboration with PolicyLink and the Citizen Housing and Planning Association, 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.

In the largest-ever study of interracial friendship in America, 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.

Media

In March, the Media Lab joined with Bank of America to create the Center for Future Banking, a five-year collaboration to which Bank of America has committed \$3–\$5 million per year. Housed at the lab, the new center will seek to transform the ways in which banking is conducted in a world of rapidly changing social, economic, and information landscapes. The research will span a wide range of physical and social scales, from one-on-one interactions with customers to new modes of global transactions.

A gift of \$50 million created a new center supporting aspiring entrepreneurs in the developing world. Funded by Legatum Global Development, a private firm that invests in global financial markets and sustainable development, the Legatum Center for Development and Entrepreneurship at MIT will provide a launching pad for entrepreneurs who want to develop the skills and technologies necessary to operate innovative businesses in the developing world.

A \$5 million grant from the John S. and James L. Knight Foundation established a new research center to study how technology can help build local community engagement. A joint effort between the Media Lab and Comparative Media Studies, the Center for Future Civic Media will design, test, and implement new media and technologies to foster civic participation and reinforce geographic communities. The center hosted its first conference in June 2008.

Meanwhile, two new research groups were established: New Media Medicine focuses on how radical new collaborations among doctors, patients, and communities will catalyze a revolution in human health, and Camera Culture explores how to create new ways to capture and share visual information.

In ongoing efforts, Scratch, the open-source programming language for kids that allows them to create their own interactive stories, games, music, and animations for the web, reached a broad, worldwide audience during its first year of availability. More than 120,000 users registered and more than 150,000 projects have been uploaded on the Scratch website.

After a video demonstration of a new experimental robot was posted on YouTube in April, the robot became something of an Internet celebrity. Created by the Personal Robots Group, the new robot can slant its eyebrows in anger, raise them in surprise, hood its eyes in boredom, and show a wide assortment of other facial expressions to communicate with people in human-centric terms.

A folding electric scooter developed by the Smart Cities group was a hit at Milan's Motor Show last fall, along with a proposal to make the scooters available for short-term rentals at convenient city locations such as subway stops and convenience stores. It was also cited as one of the great inventions of the year by the French magazine *Le Point*.

The Next Billion initiative is an Institute-wide collaboration exploring how new digital technologies can transform business and community life in emerging markets, test these systems in the field, and unleash a wave of entrepreneurship, collaboration, and wealth creation, turning the newly connected into a powerful force in the world economy.

For a complete list of Media Lab projects, visit <http://www.media.mit.edu/research/projects/>.

Real Estate

A report released in May by the Center for Real Estate revealed that almost half of the affordable housing projects proposed for Greater Boston under Massachusetts' 40B law have yet to be completed. The report was released at the center's third annual Housing Affordability Conference, attended by more than 100 real estate developers, town representatives, lenders, and others.

Last fall, a pair of indexes developed at the Center for Real Estate provided the first quantitative evidence that the value of US commercial real estate was on the decline. The center's Transaction-Based Index indicated that the value of US commercial real estate owned by big pension funds fell 2.5% in the third quarter of 2007, the first negative quarter in this index since late 2003 and the biggest drop since the fourth quarter of 2001. The other index developed at the center—now published by Moody's Investors Service—similarly indicated that the value of all commercial property declined 1.2% in September from the previous month.

In ongoing programs, the Housing Affordability Initiative reorganized and refined its focus on conducting policy-relevant research on housing affordability in the New England area; researchers in the Commercial Real Estate Data Laboratory continued to pursue the development of commercial property market information; and the New Century Development initiative is being expanded to promote the practice of sustainable

building development as well as methodology that will facilitate improvements in both the development process and the resulting product.

Visual Studies

CAVS commissioned a new project from the Center for Urban Pedagogy that will focus on sources of money used in constructing and repairing buildings, the social history of home finance, and the dynamics that lead to the abandonment of buildings.

In April, a Federal Emergency Management Agency (FEMA) trailer arrived at MIT as part of a project seeking proposals on how to make use of the vast number of surplus FEMA trailers used by evacuees in the aftermath of Hurricane Katrina. Plans are under way to enhance the FEMA trailer to create an example for possible future use, and to donate it to a community organization at the end of the 2009 Independent Activities Period.

A new lab for audio production was set up in Building N51 to allow students to experiment in sound art.

Events

Several members of the School of Architecture and Planning were featured in a major exhibit this spring at New York's Museum of Modern Art. On display from February 24 through May 12, *Design and the Elastic Mind* included work by Carlo Ratti, Hugh Herr, and Sheila Kennedy; PhD candidate Neri Oxman; and alumna Sarah Williams (MCP 2005), currently director of the Spatial Information Design Lab at Columbia University.

An MIT exhibit of photographs by Cervin Robinson, one of the world's most widely published architectural photographers, was reviewed by *Boston Globe* critic Robert Campbell, who called the exhibit "superb" and "a brilliant show." Organized by Gary Van Zante, curator of architecture and design at the MIT Museum, *By Way of Broadway* was Robinson's exploration of the visual landscape of New York over a span of 35 years, from 1972 to 2007.

Urban Design and Civil Protest, an exhibit on display at the MIT Museum's Compton Gallery, investigated the relationship between forms of protest and civic space, focusing on events of the last half-century in Buenos Aires, Beijing, Tel Aviv, Leipzig, and other cities around the world.

The Beijing Urban Design Studio: 20 Years of International Collaboration was on view at the Wolk Gallery from April through September 2007. Originally organized to mark the 20th anniversary of the Beijing Urban Design Studio—a joint program between the School of Architecture and Planning and the Tsinghua University School of Architecture in Beijing—the exhibit featured drawings and photos documenting 20 years of student work on sites across the city.

About 100 people convened at MIT in May to discuss the impact of intelligent building infrastructure on energy efficiency. Organized by Neil Gershenfeld, the event resulted in a proposal to launch a large-scale test bed project as part of MIT's Energy Initiative,

formed in 2005 to mobilize the capabilities of the entire Institute in addressing the challenges of energy and the environment.

Architecture

This spring, the School of Architecture and Planning and the Boston Society of Architects staged a pair of symposia featuring leading urbanists from around the world discussing challenges facing the modern city in a period of global climate change. Held at MIT's Tang Center, the March symposium focused on *Cities and Buildings: Architecture for the Green City*; the June symposium focused on *Cities and Systems: Strategies for the Future*.

In the fall, the Architecture Lecture Series was organized around the theme "What City?" In the spring, the theme was "Global Practice." As part of the series, faculty talked about their international practices in an evening of "Shop Talk."

Kengo Kuma presented the 20th Arthur H. Schein Memorial Lecture; Juan Herreros presented the 15th Pietro Belluschi Lecture; and Werner Sobek presented the 2nd Goldstein Architecture, Engineering, and Science Lecture.

Lecture series open to the public also were sponsored by the Building Technology; Visual Arts; History, Theory, and Criticism; Computation; Undergraduate; and Aga Khan programs.

To enhance the design culture within the department, the final studio review schedule was moved to two weeks prior to final examination week; the move received positive feedback from the faculty and the students in general.

Planning

About 300 people convened at MIT in April for a daylong symposium and gala dinner to celebrate the 75th anniversary of MIT's course in city planning, the longest-running continuous planning program in the country, long since expanded into the Department of Urban Studies and Planning.

The group included alumni, past and present faculty, current students, and other colleagues and friends of the department. The events also marked the 40th anniversary of the department's Special Program for Urban and Regional Studies established to allow professionals from newly industrialized countries, often at turning points in their careers, to spend a year at MIT broadening their perspectives and enhancing their policy-making skills.

In conjunction with the symposium and gala, an exhibition of archival, graphic, and multimedia materials examining the history and influence of the department was on view in the Wolk Gallery, and a yearlong seminar series was conducted on the "History of Planning Ideas." The seminars will soon be assembled into an edited volume, and an exhibition catalogue was published to accompany the gallery show.

A daylong conference in Stockholm this spring, cosponsored with the Urban Land Institute, explored the forces reshaping cities in the 21st century and their impact on real

estate development, planning, and investment. “Rethinking Tomorrow—Real Estate in a Fast Changing World” was organized by DUSP senior lecturer Michael Joroff and Dennis Frenchman, director of the department’s City Design and Development program, with the assistance of Francisca Rojas, a PhD student in the department.

Last fall, more than 30 practitioners, political leaders, and scholars convened at MIT to talk about the challenges facing forgotten cities—old, small, once-prominent cities that at one time supplied the world with clothing, machinery, and luxuries but have lately come to be leaders in unemployment, poverty, and crime.

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 from the University of California, Berkeley, to present a talk 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.

Media

In January, a capacity crowd of more than 200 participants from 31 companies and more than 20 representatives from the press attended “Media Lab++” at Tokyo’s International House of Japan, a one-day symposium featuring a wide range of Media Lab work, ranging from affective computing to neuroengineering to stackable and environmentally friendly cars for tomorrow’s cities.

Also in January, Media Lab students were once again involved in “geek chic” on the runway with Seamless Computational Couture, the third student-organized fashion show highlighting wearable technology. Student projects were also included in the 2nd Skin fashion show on April 25 at San Francisco’s Exploratorium.

In February, the Grammy Award–winning Ying Quartet premiered a full concert collaboration with Tod Machover at the University of Iowa. The first half of the concert featured music written using the Hyperscore software developed at the lab, and the second half featured Machover’s “. . . but not simpler”

Last December, Chris Csikszentmihályi and collaborator Edmund Ming-Yip Kwong exhibited a sculpture and video installation at Fringe Exhibitions in Los Angeles. The Sociable Media group’s Stiff People’s League project was shown at the LABoral Centro de Arte y Creacion Industrial in Gijón, Spain. In addition, a half-scale model of the Smart Cities group’s City Car and the Tangible Media group’s SandScape project are currently on display at the remodeled MIT Museum.

The Media Lab also had a multiple presence at this year’s Sundance Film Festival, first with *Gas Zappers*, a short animation about climate change that was a collaboration between New York–based artist Kenneth Hung and Media Lab PhD student Noah Vawter, and second with alumnus Dietmar Offenhuber’s experimental movie *Please stand back! (zurückbleiben bitte!)*.

Real Estate

The goal of the Forums on Issues and Innovations in Real Estate (FIRE) events is to engage and communicate with members of the real estate industry about topics that are timely, noteworthy, and significant. In October, Center for Real Estate partner Taurus Investments hosted a FIRE event in Istanbul, Turkey, where Tony Ciochetti moderated a panel addressing sustainability. In January 2008, David Geltner made a presentation in Tel Aviv, Israel, titled “Risk and Return in Real Estate: And What to Do About It.”

In May, New York alums of the center put together a panel addressing the topic “Real Estate Crisis or Correction?” Also, Boston alums organized a symposium titled “Real Estate Capital Markets: Strategies in Uncertain Times.”

A number of activities surrounded the September graduation ceremony. On September 28, an afternoon of webcast presentations highlighted the center’s commitment to excellence and applying the rigor of science to real estate. Following the webcast, current students, their families, and alumni were invited to a reception honoring the Class of 2007. Also as part of the graduation weekend activities, the center invited members of the classes of 1987 and 1997 to an anniversary dinner.

Visual Studies

An exhibit of Wendy Jacob’s sculptures and site-based installations exploring the interface between the body and architecture was on view last fall in the Wolk Gallery. *Between Spaces* invited visitors to traverse a 35-foot practice tight wire and be engulfed by a squeeze chair—one experience evoking exposure and risk and the other enclosure and safety. At the exhibition opening, a performer crossed a high wire as it passed through an open gallery window and into the stacks of the adjacent Rotch Library.

CAVS hosted artist Fritz Haeg and his internationally touring project *Animal Estates* in April. While at MIT, Haeg gave a talk on his work and, with the help of MIT students and artists, built an installment of a new series of dwellings designed to welcome animals back into the city. CAVS is currently keeping tabs on 16 birdhouses made for tree sparrows and an American kestrel falcon installed on the roof of N52 and on the grounds of the Stata Center.

A lecture series called *Give Me Shelter* was conducted in conjunction with two Visual Arts Program courses. Taught by program director Ute Meta Bauer, 4.366 *Give Me Shelter: Conditions of Living in Unstable Times* examined living conditions in moments of instability and flux, including, specifically, periods of migration; 4.370/4.371 *Give Me Shelter: Body Wear*, an interrogative design workshop taught by visiting associate professor Regina Moeller, aimed to develop a transformable work that relates to the physical appearance of the body and its social construct, the second skin. The lecture series was considered a lab for both courses.

Travel

Architecture

Opportunities for international travel are a continuing strength of the department. Destinations included Bratislava, Thailand, Turkey, South Korea, Shanghai, and Mexico City. Shun Kanda again offered summer opportunities in the 14th MIT Japan Studio and the 4th Veneto Experience in Italy. In addition, students can apply for individual travel grants. Studios and workshops also traveled to local and regional sites within the United States related to their topics, including New Orleans, LA; New Bedford, MA; Rockport, MA; Boston's North End; New York City; and Albany, NY.

Planning

A major attraction for undergraduates is the 11.027 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.

In conjunction with the MIT Program on Human Rights and Justice, Larry 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.

In the spring of 2008, 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 and tested them through hypothetical replanning of an existing project, Vanke Town, a 50-hectare housing development.

Students in Eran Ben-Joseph and Terry Szold's 11.360 Community Growth in Land Use Planning course worked for the city of Lowell to produce a report on the Gateway Bridge and the Western Merrimack neighborhood. Also, 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.

JoAnn 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.

Real Estate

A group of 26 students visited universities and organizations in Dubai and Abu Dhabi, Istanbul and London. Over the course of two weeks, students visited 11 real estate projects, met with representatives from 10 companies to hear presentations on local market dynamics, and visited Abu Dhabi Men's College and Istanbul Technical

University. Students also traveled domestically to the Urban Land Institute's annual meeting in Las Vegas and took their annual trip to New York City.

Visual Studies

Public art students traveled to São Paulo, Brazil, and there were domestic field trips to Seattle, New York City, and sites in New Hampshire and Massachusetts related to the FEMA trailer project.

Publications

Gary Van Zante, curator of the Wolk Gallery and curator of architecture and design at the MIT Museum, published a portfolio of Civil War-era photographs that is considered one of the most important discoveries in early American photography of recent years. *New Orleans 1867: Photographs by Theodore Lillenthal* (Merrell, 2008) presents a series of 126 large-format, albumen photographs titled "La Nouvelle Orléans et ses environs," recently discovered in a collection in Switzerland. The series is one of the most complete photographic records of any 19th-century American city.

Architecture

Arindam Dutta contributed the foundational essay to the new journal *Design and Culture*.

David Friedman edited a publication on the conference 'Arnolfo's Moment'.

Bill Hubbard completed his book *American Boundaries: The Nation, the State, the Rectangular Survey*, to be released by the University of Chicago Press in September.

Mark Jarzombek's *Global Architecture* and Caroline Jones' *Sensorium* each went into second printings.

Nasser Rabbat published books in three different countries and two different languages.

Thresholds, a journal edited and produced by students, published issue number 33 on "Formalism."

A publication highlighting the undergraduate design faculty's insights into teaching design to the undergraduate community was completed during the summer of 2007. *Conversations of Design: Essays by the Undergraduate Architecture Faculty* is a compilation of essays highlighting individual student projects as a means of explaining pedagogical approaches.

Planning

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 that was presented to 2008 MIT commencement speaker Muhammed Yunus.

Alan Berger 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.”

Lorlene Hoyt published a new coedited volume, *Business Improvement Districts: Research, Theories, and Controversies* (CRC Press, 2008), that includes a chapter (“From North America to Africa: The BID Model and the Role of Policy Entrepreneurs”) based on her work.

Karen Polenske’s book *The Technology-Energy-Environment-Health (TEEH) Chain in China* (Springer, 2006) won the Sloan Industry Studies Best Book Award for 2007–2008. Chosen from among a field of industry studies published in 2005–2006, Polenske’s book received a rave review from the selection committee.

Richard Sennett’s new book *The Craftsman* (Yale University Press, 2008), an exploration of the basic human impulse to do a job well for its own sake, won the European Craft Prize for 2008, awarded by a consortium of labor unions across the European Union. The book has been lauded as “ambitious [and] thought-provoking” (*American Scholar*), “eloquent and persuasive” (*Culture*), and “inquiring [and] intelligent” (*New York Times Book Review*).

Anne Whiston Spirn completed her third book, *Daring to Look: Dorothea Lange’s Photographs and Reports from the Field* (University of Chicago Press, 2008).

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 (with the exception of Antarctica) to explore the relationship between urban design and the formation of national identity.

DUSP also continued to publish *Projections*, the journal of the MIT Department of Urban Studies and Planning.

Media

Dan Ariely, who holds a joint appointment in media arts and sciences in the School of Architecture and Planning and behavioral economics in the Sloan School of Management, released a wildly successful new book, *Predictably Irrational: The Hidden Forces That Shape Our Decisions* (HarperCollins, 2008). Another title, *Holographic Imaging* (Wiley, 2008), was published by Stephen Benton (posthumously) and V. Michael Bove Jr.

Visual Studies

The work of CAVS was covered in the preeminent contemporary art journal *Artforum International*. Performances and projects were covered by the *Wall Street Journal*, the *Phoenix*, and the *Boston Globe*.

Andrea Frank released a new book of photographs and interviews with MIT faculty members, using MIT as a microcosm to reflect current global trends and visions. The book features 33 interviews with such world-class luminaries as Rodney Brooks, director of the

MIT Computer Science and Artificial Intelligence Laboratory; Noam Chomsky, Institute professor of linguistics; and Edward Farhi, director of the Center for Theoretical Physics.

Larissa Harris published regularly in *Artforum International* magazine as well as in several artists' publications; she was also a juror for the Institute of Contemporary Art, Boston's James and Audrey Foster Prize.

Personnel

Architecture

Sheila Kennedy, a principal of Kennedy & Violich Architecture Ltd., was appointed professor of the practice. In 2007, along with her partner Frano Violich, she was designated one of Fast Company's Masters of Design—"fresh heroes and heroines who . . . define what design means today."

Architect/theorist Ana Miljacki, one of the most sought-after young teachers in the field, was appointed assistant professor of architecture; she is now playing a key role in the MArch core design program.

Kristel Smentek, a historian of 18th-century European visual culture specializing in the history of collecting, the art market, and the European encounter with non-Western art, was appointed an assistant professor of art history in the History, Theory, and Criticism program.

James Wescoat Jr., a historian, geographer, and landscape architect very much known for his research in water management, was appointed a full professor with tenure with the title Aga Khan professor; his appointment puts us in a uniquely powerful position to contribute to global issues in water management within the context of design, as well as historical research and preservation studies.

Meanwhile, John Fernandez and Arindam Dutta were tenured and Alexander D'Hooghe and Lawrence Sass were promoted to the rank of associate professor without tenure. Searches are under way for a tenure-track position in the Visual Arts Program and for a junior architectural design teacher.

Planning

After an involved, extensive, and extremely participatory search, the search committee recommended Amy Glasmeier, professor of geography and regional planning at Pennsylvania State University, for the position of new head of the department. She will begin in January 2009; until then, current head Lawrence Vale has agreed to postpone his sabbatical.

Alan Berger, founding director of P-REX (the Project for Reclamation Excellence)—a transdisciplinary research and design effort focused on regional systems and the reuse of deindustrialized landscapes worldwide, now seated at MIT—was appointed associate professor of urban design and landscape architecture.

Dayna Cunningham was appointed executive director of DUSP's newly renamed Community Innovators Lab, until recently known as the Center for Reflective Community Practice. She joined the staff just as Ceasar McDowell, director of the center since 1998, went on partial leave to head Dropping Knowledge International, a web-based civic discourse initiative in Cambridge, MA.

Harvey Michaels was appointed a full-time lecturer in energy policy; he joined the faculty in July 2008 to teach 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.

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.

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, which was dedicated to his work. John will continue to work in the department as a professor emeritus.

Finally, sadly, J. Mark Schuster (PhD 1979), a professor of urban studies and planning here since 1978, died February 25 of complications from melanoma. He was 57.

Media

John Maeda was appointed president of the Rhode Island School of Design, effective June 2008. He is the fifth member of the School of Architecture and Planning community currently sitting as a college president: Lawrence Bacow, the first director for education and research at the Center for Real Estate, was named president of Tufts University in 2001; Bernd Kracke (AR 1981) was appointed president of Germany's Hochschule für Gestaltung Offenbach am Main in May 2006; David Smith (SMVisS 1997) was appointed president of the Nova Scotia College of Art and Design in August 2006; and Wellington "Duke" Reiter was named president of the School of the Art Institute of Chicago this summer.

Maeda has been replaced by two co-associate directors, Hiroshi Ishii and Andrew Lippman. Ishii, who has been a faculty member at the Media Lab since 1995, codirects the Things That Think consortium and is best known for creating the field of Tangible User Interfaces. Lippman, a founding member of the lab, directs the Digital Life consortium, which focuses on the confluence of technical invention and human understanding in creating a networked world where communication becomes fully embedded in our daily lives.

Mary Markel Murphy joined the lab as its new director of human resources. A 17-year MIT veteran, she was most recently administrative officer for the Department of

Biology, and for the previous 10 years she held various human resources positions at the Institute. She took over for Ramona Allen, who is now director of human resources for the School of Architecture and Planning.

The lab also has two new directors. Sixteen-year Media Lab veteran Felice Gardner returned from One Laptop per Child to serve as the lab's new director of sponsor management, overseeing sponsor relations and retention. Paula Anzer, who spent 14 years working on fundraising and communications in DUSP, came to the lab from her most recent position as associate director of MIT's Leadership Center in the Sloan School of Management.

Ramesh Raskar was appointed associate professor of media arts and sciences. Raskar, an expert in the computational aspects of images and illumination, is head of the Media Lab's Camera Culture research group, which focuses on developing innovative tools to help capture and share the visual experience.

Hiroshi Ishii was promoted from associate professor to professor. Associate professors Deb Roy and Joseph Paradiso were awarded tenure.

Real Estate

David Geltner stepped down as director of the Center for Real Estate in June. In FY2009, Tony Ciochetti will serve as both chairman and director.

Lynn Fisher was promoted to associate professor and was named director of the Housing Affordability Initiative. Visiting scholar Keri-Nicole Dillman, hired as a research associate in December 2007, was named associate director of the initiative. Sharon Krefetz joined the center as a visiting scholar in May 2008 and will be working with the Housing Affordability Initiative. Ryan McCann, who had joined the center in December 2006 as a research support associate with the Housing Affordability Initiative, resigned in April to pursue policy-related work in Israel.

Recognition

Time magazine named the Digital Water Pavilion one of the best inventions of the year, along with three other School of Architecture and Planning inventions: the City Car from the Media Lab's Smart Cities group, Nicholas Negroponte's One Laptop per Child, and Hugh Herr's Robotic Ankle.

Architecture

According to *Architecture* magazine, MIT was ranked second among graduate schools of architecture in the United States, reflecting the School's significant revitalization of its design programs in recent years. MIT was ranked fourth in 2007 as well as 2005, eighth in 2006, and fifth in 2004.

Three designers from the Department of Architecture were listed in a global directory of 110 up and coming graduates in art and design produced by the international design magazine *Wallpaper**. Among the 10 architects it named were two MIT graduate

students—Pholkrit Sangthong (MArch 2008) and Peter DePasquale (MArch 2008)—and MIT alumnus Ahmed El-Husseiny (MArch 2006).

Five students from the Department of Architecture took top honors in this year's annual arts awards administered by MIT's Office of the Arts, and PhD candidates in HTC significantly cornered the field in humanities research fellowships. An HTC student also won a fellowship awarded by the American Council of Learned Societies, competing against graduate students from hundreds of humanities programs across the nation. Last year, HTC students won two such fellowships.

Stanford Anderson was invited to serve the British government as the sole international "Architecture" panel member in the 2008 Research Assessment Exercise established to review all UK academic research in this subject.

Yung Ho Chang was named a distinguished alumnus of the University of California, Berkeley. His work was published widely; exhibitions were on view in Hong Kong, Turin, Paris, Barcelona, and London.

Alexander D'Hooghe exhibited at biennales in Rotterdam (taking third prize with his students) and Hong Kong/Shenzhen; organized a research group, Platform for a Permanent Modernity, to investigate architectural urbanism; and won the 2007 Bemis Housing Award.

Leon Glicksman was the recipient of this year's American Society of Heating, Refrigerating and Air-Conditioning Engineers Distinguished Service Award.

Reinhardt Goethert received a substantial grant from the Alumni Class Funds to develop an experimental subject for undergraduates intended to build awareness of the Third World urban explosion, and he conducted a hands-on design-build project in El Salvador with students from both the Department of Architecture and DUSP.

Ana Miljacki won a 2008 Young Architects Award from New York's Architectural League.

Nader Tehrani was named a USA Target Fellow in Architecture and Design, along with his business partner Monica Ponce de Leon; the honor carries with it an unrestricted grant of \$50,000. He also won a Cooper Hewitt National Design Award and an American Institute of Architects Housing Award for his Macallen Building Project. His work was exhibited at the Hong Kong/Shenzhen Biennale, at Peking Fine Arts in Beijing, and at the Institute of Contemporary Art, Boston.

J. Meejin Yoon was recognized with an extraordinary array of honors this year: from *Architectural Record*, ArchitectureBoston, the Architectural League of New York, the Boston Society of Architects, the Rhode Island School of Design, and the Association of Collegiate Schools of Architecture. She also was awarded a \$50,000 prize from MIT. In addition, she received a grant from the Graham Foundation for the Arts for a design publication titled "Unsolicited Small Projects for the Big Dig," and her work was

exhibited at the National Art Center, Tokyo; Somerset House, London; the Institute of Contemporary Art, Boston; and the Contemporary Arts Museum, Houston.

Jan Wampler was nominated for the American Institute of Architects/Association of Collegiate Schools of Architecture Topaz Medallion for Excellence in Architectural Education.

Terry Knight and Larry Sass received a National Science Foundation grant for “Visual-Physical Design Grammars,” in which they will explore the integration of shape grammars for languages of forms with digital fabrication for physical assembly systems. Also, Sass was selected as one of five architects to design and build a house for a forthcoming exhibit at the Museum of Modern Art, Home Delivery: Fabricating the Modern Dwelling.

Structural engineer John Ochsendorf was a winner of the 2007–2008 Rome Prize Competition sponsored by the American Academy in Rome; he was the first engineer to be awarded a Rome Prize by the American Academy in its 113-year history.

Planning

For the second consecutive year, DUSP was ranked number one among urban planning programs in North America by Planetizen, an organization dedicated to exchanging public information on urban planning. Interestingly, DUSP scored number one among both practitioners and educators.

Two teams of students from DUSP won acclaim this spring for their proposals to help redevelop the cities of Biloxi and New Orleans, both deeply damaged by Katrina. Their efforts are among a host of School of Architecture and Planning initiatives that have recently been documented on an open-source wiki, MIT@NOLA, devoted to the School’s ongoing involvement in the Gulf Coast region since the storm.

Eran Ben-Joseph was 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.

Xavier de Souza Briggs won the Paul Davidoff Book Award from the Association of Collegiate Schools of Planning for *The Geography of Opportunity*.

JoAnn Carmin was 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.

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.

Eric Klopfer received the American Institute of Biological Sciences Education Award for his significant contributions to education in the biological sciences. The award recognizes Klopfer and the Scheller Teacher Education Program, which he directs.

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.

Media

Ed Boyden was honored by the National Institutes of Health for his innovative research into the function of the human brain. One of 29 winners of New Innovator Awards for new investigators, Boyden will receive \$1.5 million over five years to study new methods of controlling the neural circuits that malfunction in psychiatric and neurological disorders. Boyden was also named the first recipient of the Society for Neuroscience's Research Award for Innovation in Neuroscience for his work on optical control of neural activity; and he received a 2008 Alfred P. Sloan Foundation Research Fellowship.

Neil Gershenfeld was named a fellow of the American Physical Society, in recognition of "contributions ranging from quantum computing to advanced technologies for global development, and for leadership in bringing science out of the laboratory and into the real world." He was also chosen by Prospect/Foreign Policy as one of the world's top 100 public intellectuals.

Hugh Herr won the 13th annual Heinz Award for Technology, the Economy and Employment; the award is among the largest individual achievement prizes in the world.

Hiroshi Ishii was chosen as the 2007–2008 Thomas A. Wasow Visiting Scholar by Stanford University's Symbolic Systems program.

Tod Machover was awarded the Steinmetz Prize and delivered the 2007 Steinmetz Lecture at Union College in Schenectady, NY.

John Maeda was named the winner of this year's Class of 1960 Innovation in Education Award, established in 1985 to honor faculty who develop innovative instructional programs at the graduate or undergraduate level.

Alex (Sandy) Pentland was appointed to the World Economic Forum's Global Agenda Council.

Alumnus Saul Griffith (SM 2001, PhD 2004) was awarded a 2007 MacArthur Fellowship, more commonly known as a "genius" grant, for "engineering innovations spanning optics, high-performance materials, and nanotechnology."

Alumna Maggie Orth (PhD 2001) was named a 2007 USA Target Fellow. She is one of 50 recipients of United States Artists unrestricted grants awarded to artists in recognition of their creative work.

Doctoral candidate Amanda Parkes was chosen as a 2008 “Woman to Watch” by Mass High Tech.

Two graduate students from the Sociable Media Group were chosen winners in MIT’s Institute-wide Second Life Design Competition; Second Life is an online virtual world in which people interact through avatars.

The Media Lab’s LabCast team won a Webby Award for Technology from the International Academy of Digital Arts and Sciences in the Online Film & Video category.

Real Estate

William Wheaton was presented with the 2007 Graaskamp Award by the Pension Real Estate Association; he shared the award with his business partner, Raymond Torto. The award winners designated the Center for Real Estate as the recipient of the award’s \$10,000 scholarship.

Visual Studies

Ute Meta Bauer was nominated as an international advisor for the Third Yokohama Triennial (2008) and as a scientific advisor for the newly established LABORal Center for Art and Industrial Creation in Gijón, Spain.

Wendy Jacob, with Andrea Frank, received an Alumni Funds grant for the proposed introductory studio subject, Art Work-Out: Visual Arts in the Gym, taught jointly as 4.031 Introduction to Visual Arts and 4.341 Introduction to Photo and Related Media.

Joan Jonas received an honorary doctorate from the San Francisco Art Institute in recognition of her outstanding contributions to contemporary art, culture, and thought.

Krzysztof Wodiczko received a 2007 Faculty Design Award from the Association of Collegiate Schools of Architecture, along with Julian Bonder of Roger Williams University, for their design of a memorial to the abolition of slavery in Nantes, France. Also, Wodiczko worked on a major public project in Warsaw for the official celebration of the 40th anniversary of the Polish student uprising of 1968; the project was commissioned by the Polish National Theater and the city of Warsaw. In addition, he was awarded the 2007 Skowhegan Medal for Sculpture; won the competition for the Memorial to the Victims of World Terrorism (with Julian Bonder); was selected as one of eight artists to develop a public art project for the 2008 Democratic Convention in Denver; received an honorary doctorate from the Academy of Fine Arts in Poznan, Poland; and won a public art commission from the Cambridge Arts Council.

Joe Zane received the Best Show of an Emerging Artist Award from the Boston chapter of the International Art Critics and Curators Association. He also curated a show at the Allston Skirt Gallery (Boston) and had an exhibition of his own work in collaboration with Joe Gibbons. His work was recently added to the collections of the Art Institute of Chicago, the Fogg Museum at Harvard, and the Museum of Modern Art in New York City.

Alumnus Oliver Lutz (SMVisS 2006) was awarded the IV International Painting Prize Diputación de Castellón for his painting installation *Lynching I*. The award carries with it a cash prize of €60,000, making it one of the highest paid art awards in the world according to the international art network e-flux.

Design Laboratory

ArchNet

ArchNet has more than 57,000 members from 190 countries, with more than 5,000 visitors a day. The Digital Library continues to grow and includes 54,000 images and 4,500 publications and files, with 8 GB transferred per day. The group workspaces continue to be used extensively, especially for educational purposes.

Developmental Entrepreneurship

A number of projects have been developed under the umbrella of the Program in Developmental Entrepreneurship. The Cell Bazaar provides localized eBay-type markets on cell phones in Bangladesh. Way Systems adds a card reader and banking network to convert existing cell phones into low-cost point-of-sale devices. United Villages delivers voice messaging and email to rural areas using ultra-low-cost WiFi technology, and Dimagi uses PDAs and cell phones to deliver health care services.

Mobile Experience Lab

Fiber Cloud is an organic sculptural landmark that responds to human interaction and expresses context awareness using hundreds of sensors and more than 15,000 individually addressable optical fibers. Learning Sustainability examines whether mobile technologies and new media can improve youth civic participation and social inclusion, especially in sustainable and environmental matters. Pitti.Mobi rethinks fashion trade shows by creating conversations through real-time mobile tagging. Finally, Smart Urban Mobility Systems explores how the notions of place and media transform urban mobility.

SENSEable City Laboratory

In the province of Florence, Italy, the Wireless City project explores the opportunity offered by wireless connectivity to better understand resource allocation as well as to create new services for its citizens and visitors. The WikiCity project examines how a city can perform as an open-source, real-time system; iFind is a location-based application for “friend spotting.” Real Time Rome collected data from cell phones, buses, and taxis in Rome to show urban movement and activity in real time and to illustrate how technology can help individuals make more informed decisions about their environment. Finally, New York Talk Exchange illustrates the global exchange of information in real time by visualizing volumes of long distance telephone and Internet Protocol data flowing between New York and cities around the world.

Space

In July 2007, MIT broke ground for the Media Lab Extension designed by Pritzker Prize-winning architect Fumihiko Maki. Together with the existing Wiesner Building, the expanded facility, due to be occupied in January 2010, will also house the List Visual Arts Center, the Comparative Media Studies program, the Legatum Center for Development and Entrepreneurship, CAVS, and the Department of Architecture's Visual Arts Program. Another key component of the building will be the Okawa Center for Future Children, established at the Media Lab through a \$27 million donation from Isao Okawa, the late chairman of the CSK Corporation and SEGA Enterprises Ltd.

Adèle Naudé Santos

Dean

Professor of Architecture and Urban Studies and Planning

More information about the School of Architecture and Planning can be found at <http://sap.mit.edu/>.