

Department of Architecture

The Department of Architecture is dedicated to a socially responsible, technologically sophisticated, environmentally sensitive, and culturally engaging vision of architecture. It is distinguished in that it includes within one department the many disciplines required for an architecture curriculum; more significantly, it creates the opportunity for each discipline to have specialized advanced degree programs. We incorporate outstanding research and teaching programs in each of the following discipline groups: Architectural Design; Building Technology; Computation; History, Theory, and Criticism; and Visual Arts. Undergraduates can earn a bachelor of science in architecture studies and can minor in architecture and history of art and architecture.

Notable strengths of the department that cut across the discipline groups are our devoted and spirited teaching, the grounding of architecture in both social and material issues, interdisciplinarity, and the remarkable internationalism of our faculty, students, teaching, and research. The faculty includes architects, urbanists, building technologists, historians of art and architecture, artists, and various specialists in areas of architectural research, including computation as it addresses design issues.

The presence of this range of faculty ensures a professional program of both depth and breadth. The strength and well-being of the master of architecture program are fundamental to maintaining and enhancing our position as one of the world's most respected professional schools of architecture. Starting with the master of architecture class that entered in September 2005, the department has begun to increase the size of the professional program incrementally and thus to expand the opportunities available. Likewise, the size of the master of science in visual studies program will increase incrementally over the next two years from six graduate degree candidates to 12. Searches were approved for three senior design faculty positions and one tenure-track position each in design, visual arts, and (as a replacement) the Aga Khan Program for Islamic Architecture.

Yung Ho Chang's appointment as professor of architecture and head of the Department of Architecture became effective on July 1, 2005.

The discussion below is organized by discipline group, followed by individual topics that cross discipline areas.

Architectural Design

Faculty and Staff

Personnel in Architectural Design were professors Julian Beinart, Yung Ho Chang, Charles Correa (on leave), John de Monchaux (joint appointment with the Department of Urban Studies and Planning), Michael Dennis (on leave, spring), Anne Spirn (joint appointment with the Department of Urban Studies and Planning), and Jan Wampler; associate professors Mark Goulthorpe, Ann Pendleton-Jullian, Andrew Scott, and J. Meejin Yoon (on leave, spring); assistant professors Alexander d'Hooghe and Paul Lukez (on leave, fall); senior lecturers Fernando Domeyko and Shun Kanda; adjunct associate professor Bill Hubbard Jr.; professor without tenure (retired) William Porter; principal

research associate Reinhard Goethert; lecturers Michael Barry (fall), Hansy Luz Better (fall, Independent Activities Period [IAP]), Juan Du (spring), Anubhav Gupta (fall), Alan Joslin (fall), Paul Schlapobersky (fall), and Joel Turkel (spring); technical instructor Christopher Dewart; and visiting associate professor Lise-Anne Couture (spring). A search for a tenure-track studio faculty member was closed without a hire. A search for two tenured faculty members opened in December; in May Dean Adèle Naudé Santos made a third position in design available. A search was approved for a tenure-track position.

Architecture Design Studios

A hallmark of studio education at MIT is that instructors propose to their students not merely a project but a process through which that project might be accomplished, advancing their pedagogies through a shared set of themes that include the following:

- **Tectonic expression.** We find among ourselves a poetic and pragmatic interest in how materiality, the manner of construction, and the means of managing natural forces (such as gravity, climate, and airflow) might be expressed.
- **Light and human experience.** We feel that attention must be paid to the capacity of light to transform and model space in ways appropriate to a range of human activities and emotions.
- **Building community.** We believe that respect must be accorded to the identity and social needs of the inhabitants of places, both to establish private territories for them and to enhance their abilities to participate in the public realm.
- **Cultural heritage.** We respect the value of cultural difference, and we seek strategies that preserve the legacy of artifacts and customs from the past while addressing the pressures and opportunities of the present.
- **Urbanism.** We are acutely aware of architecture's ability to contribute spatially, symbolically, and functionally to the shared but divergent social and economic life of cities.
- **Engaging the landscape.** We understand the impact of buildings as material and experiential extensions of the land. We thus pay particular attention to the effects of designed environments on natural systems, and vice versa.
- **Technology.** We recognize the critical roles technology and engineering play in the making of living environments. Advancements in structural engineering and mechanical engineering in particular have been altering the way we design and build. The integration of technological components in architectural design is therefore of paramount importance.
- **Sustainability.** We feel a concern for the conservation of natural resources, not just in terms of the efficiency of the buildings we design and the practices our buildings foster among their inhabitants, but in terms of larger practices such as settlement and transportation.
- **Digitality and methodology.** We are fascinated by the capability of representing and manipulating reality and the new kinds of space and ways of thinking generated by computers and computation. We recognize the opportunity digital technologies offer as media and design methods that can foster a different sense of inhabitation, of place, in and out of cyberspace.

Opportunities for student travel are a continuing strength of the department. Studio classes traveled to China (with Pendleton-Jullian and Anderson); Kiev (with Beinart); New Orleans (with Wampler); New York and Vermont (with Lukez and Du); New Jersey (with d’Hooghe); and Tijuana and San Diego (with Pendleton-Jullian). Kanda again led an extended summer study trip to Japan. Goethert took his new practitioner class to Louisiana and led a group of students to Manila during IAP. Students also may apply for individual travel grants. The Summer Beijing Urban Studio (led this year by Wampler, Du, and Dennis Frenchman from the Department of Urban Studies and Planning) celebrated its 20th anniversary with an exhibition of student work in the City Planning Museum in Beijing.

The design faculty held a retreat at Endicott House in April to consider how to improve the curriculum; how our program fits into larger academic, professional, and global contexts; how the paradigms of architecture are changing; where the new frontiers are; what the foundations of today’s design education are; and what our strengths and weaknesses are. The retreat concluded with decisions to design a core curriculum that can be summarized as 3+3+1—three core studios, three exploratory option studios, and one thesis—and to establish a committee that will come up with specific recommendations during the next academic year.

Graduate student David Foxe organized an informal thesis roundtable in February for Architecture and Urban Studies and Planning students. The Department also experimented with a new way to conduct MArch thesis reviews at the end of the fall term (most MArch students graduate in February). Instead of fitting presentations into the narrow halls and corners surrounding the studios (where there is not enough room to show all the work at once), facilities manager James Harrington implemented a series of review “rooms” in a centrally located MIT space. The show was accessible to the larger MIT community and created a festive, celebratory ambience. Reviewers included thesis advisors and readers and a group of distinguished visiting critics.

Level 3 broke for a special one-week, midterm charrette with visiting critics Michael Bell and Peter Davidson that concluded with a public review. The model offered concentrated exposure to distinguished visitors and short-term projects; future charrettes will benefit from this first attempt in that their fit into the regular studio schedule will be refined.

Faculty Activities and Achievements

Architectural Design faculty members who also practice as architects include Julian Beinart (in association with Charles Correa), Yung Ho Chang, Michael Dennis, Alexander D’Hooghe, Fernando Domeyko, Mark Goulthorpe, Bill Hubbard, Shun Kanda, Paul Lukez, Ann Pendleton-Jullian, William Porter, Adèle Naudé Santos, Andrew Scott, Jan Wampler, and J. Meejin Yoon.

Chang was part of the MIT School of Architecture and Planning delegation, led by Dean Santos, that traveled to China to sign a letter of intent with Tsinghua University establishing a joint venture, the Urbanization Laboratory (UrbLab), that will provide a base to conduct both design studios and research projects on rapid urban growth in an interdisciplinary manner with our Chinese partners year round.

Chang received an Academy Award in Architecture from the American Academy of Arts and Letters. Dennis taught at the University of Michigan during his spring leave. D'Hooghe published *Public Form: Alexander d'Hooghe* (Brussels: VAI/A16 Publications, 2006; V. Patteuw and V. Brunetta, eds.). Goulthorpe was named one of the Architectural League of New York's Emerging Voices and won the 2005 First Place Far Eastern International Digital Architecture Design Award. Yoon spent spring term at the American Academy in Rome as recipient of the Rome Prize Fellowship in Design. She received a *Metro* New York Five Under 35 Award, she was a finalist in the PS1/MOMA Young Architects Program Competition with her firm Howeler + Yoon Architecture, and she was selected to participate in the third National Design Triennale at the Cooper-Hewitt Museum's National Museum of Design.

Admissions

Students in our professional MArch degree program are admitted at two levels: Level 1 for those whose undergraduate background is in another area of study, and Level 2 for those who come from undergraduate programs in architecture and therefore receive one year of advanced standing in our 3.5-year graduate program. The incremental increase in the size of the MArch program began with students admitted in spring 2006 for entry in fall 2006. Not only was the targeted size of the class larger, but the number of students who accepted admission exceeded expectations. Results for Level 1 were: 169 applications, 60 admitted, 24 targeted, 29 enrolled, and 1 held pending successful results on the Test of English as a Foreign Language (TOEFL). Results for Level 2 were: 167 applications, 30 admitted (including 3 BSAD early admittances), 12 targeted, 15 enrolled, and 1 TOEFL hold. Results for SMArchS were: 143 applications, 48 admitted, 25 targeted, and 27 enrolled.

Building Technology

Faculty and Staff

Personnel in Building Technology (BT) were professors Leon Glicksman and Leslie Norford (on leave, spring); associate professors John Fernandez and Andrew Scott; assistant professors Marilyne Andersen (on leave, fall) and John Ochsendorf; lecturers Stephen Diamond (fall), Paul Kassabian (fall), and Carl Rosenberg (spring); and visiting professor Edward Allen (fall).

Program Notes

The major focus of BT research was on developing advanced technologies for sustainable buildings and design tools for architects. Andersen is developing a video-based assessment, sponsored by the National Science Foundation, of advanced light-redirecting components in windows and luminaries to optimize lighting in buildings. Fernandez unveiled new material selection software for architecture and the built environment, the first computational design tool to assist in the assessment and selection of materials for buildings. This software is the culmination of collaboration with Professor Mike Ashby of the University of Cambridge in the United Kingdom. Fernandez organized and chaired a multidisciplinary symposium held at MIT in March 2006, "Ecologies of Construction," which drew together academics from Yale, Harvard,

MIT, and others along with industry leaders in a discussion of resource consumption of contemporary construction practices. Ochsendorf and his students helped to design and build a new sustainable conference center in Dover, England, using a historic vaulting method to create two 45-foot-span brick domes. The project was the first application of this technology in England. The BT group continued its collaboration with the University of Cambridge on sustainable buildings with natural ventilation, sponsored by the BP Global Power Corporation as part of the Cambridge-MIT Institute.

Faculty Activities and Achievements

Andersen received the Chorafas Foundation's EPFL Prize, spoke at Lightfair 2006, and organized an IAP workshop on natural light in design that was attended by 17 practitioners and 12 students. Fernandez's book *Material Architecture: Emergent Materials for Innovative Buildings and Ecological Construction* (Architectural Press, Oxford, England) was published this year. Glicksman completed editing the book *Sustainable Urban Housing in China: Principles and Case Studies for Low Energy Design* to be published by Springer Publishing Company. A Chinese translation also will be published. The book includes contributions by Fernandez, Norford, and Scott. Norford was appointed as a Cecil H. Green (1923)/Margaret MacVicar faculty fellow in recognition of his outstanding contributions to undergraduate teaching. Ochsendorf was named to the Class of 1942 career development chair for three years, effective July 1, 2006. He lectured on Inca bridge engineering at the Library of Congress, hosted by Dumbarton Oaks and the Hispanic Division of the Library of Congress, and on the science and mathematics of arches at the annual meeting of the American Association for the Advancement of Science.

History, Theory, and Criticism

Faculty and Staff

Personnel in History, Theory, and Criticism (HTC) were professors Stanford Anderson (on leave, fall) and Mark Jarzombek (on leave, fall); associate professors Arindam Dutta, David Friedman (on leave, spring), Caroline Jones (on leave), Nasser Rabbat, and Heghnar Watenpaugh (until December 2005); assistant professor Erika Naginski; lecturer Robert Cowherd (spring); visiting professors Michael Ann Holly and Keith Moxey (spring); and visiting associate professors Martha Buskirk (spring), Jesús Escobar (spring), and Sanford Kwinter (fall). Naginski was promoted to associate professor without tenure effective July 1, 2006. Watenpaugh left MIT to take a position at the University of California at Davis. HTC hosted two visiting scholars: Jong Hun Kim (South Korea) and Xiangning Li (China).

Program Notes

HTC continues to maintain its high standards, with faculty members presenting a total of 47 lectures at universities and conferences this year and students winning prestigious fellowships and other awards. Increased funding for the SMarChS program has paid off in that we were able to enroll our leading applicants in the past two years, in contrast to previous years when we lost a significant number of applicants to other universities. The applicant pool for the PhD program remains strong; nevertheless, HTC faces

competition from the growing number of new PhD programs. A principal concern remains the rising cost of nonresidency, which makes it difficult to compete against programs with low or no nonresidency costs. This spring, admissions yielded four PhD and six SMArchS students from applicant pools of 43 and 12, respectively. Now in its third year, the exchange program with Fondazione Scuola di Studi Avanzati-Venezia brought two students to MIT, one in the fall and one in the spring. HTC set the following goals: to increase applicant pools to 55 and 25 for the PhD and SMArchS programs, respectively, through a promotional campaign; to continue to lobby for reductions in nonresidency fees; to make it possible for our students to apply for predoctoral fellowships from the Georges Lurcy Charitable and Educational Trust (at present, MIT is not one of the eligible institutions); to address the loss of our former breadth in 16th-, 17th-, and 18th-century architecture history and the early modern/modern eras in Islamic architecture history resulting from the retirement of Henry Millon and the departure of Heghnar Watenpaugh; and to continue to review HTC's contribution to curriculum requirements in its offering of graduate and undergraduate subjects and undergraduate concentration, minor, and major programs.

HTC began two event projects: *Deus Ex Historia*, an international conference on architecture and religion, and *Beaux-Arts in America*, a collaborative venture between the department and the MIT Museum that began with a seminar in spring 2006 and will continue with another subject offering and exhibitions at the Wolk and Compton galleries. The student-run HTC Forum sponsored lectures by Daniel Heller-Roazen, Carla Yanni, Neil Levine, Sanford Kwinter, and Martha Buskirk in the fall and Claire Zimmerman, Partha Mitter, and Hadas Steiner in the spring. The theme of the student-coordinated HTC Film Series in the fall was "Suburbia Goes Global."

Faculty Activities and Achievements

HTC faculty contributed notably to their fields through lectures at universities and conferences, board memberships, and publications. In particular, Anderson, on leave in the fall, was the principal investigator for a study and teaching program on microubanism, engaging faculty at MIT and Tongji University, Shanghai. His lecture "Eladio Dieste: A Principled Builder" was published in *Felix Candela Lectures on Structural Engineering 1998–2005* (Guy Nordenson, ed.; New York: Museum of Modern Arts, 2006), and his curated exhibition of the same title continued to travel. He served as a juror for the 2009 World Games Stadium (Taiwan) design competition and continued to lecture and write extensively, including a bimonthly column for *Dialogue* (Taipei). Dutta moderated a panel, *Race and Architecture in the Colonial Non-West*, at the annual conference of the Society of Architectural Historians. Friedman was on leave in the spring term at the Dibner Institute; he organized and chaired a panel, *Architecture, Urbanism, Landscape, 1400–1700*, at the College Art Association's annual conference. Jarzombek was on leave in the fall term at the Sterling and Francine Clark Institute. Jones was on leave all year as visiting faculty member at the Institut National d'Histoire de l'Art in Paris. Naginski received a HASS Research Grant (see also the section on the Aga Khan Program).

Visual Arts

Faculty and Staff

Ute Meta Bauer was appointed director of the Visual Arts Program (VAP) and associate professor with tenure effective July 1, 2006. Other personnel in VAP were professors Joan Jonas and Krzysztof Wodiczko (fall); associate professor Wendy Jacob; lecturers Andrea Frank (photography), Joseph Gibbons (video), and Julia Scher (foundations); and visiting professor Antoni Muntadas (spring).

Program Notes

VAP supports the undergraduate education curriculum of the Institute and the department's core MArch program. It conducts a small graduate program that addresses the relation of artistic practice to new media, performance, architecture, urbanism, and related sociopolitical questions. Six applicants were accepted into the Master of Science in Visual Studies (SMVisS) degree program for fall 2006 out of a pool of 28. VAP celebrated its graduates with an exhibition at Space Other, a Boston venue, and hosted a number of visiting artists, lecturers, and reviewers in conjunction with its subject offerings and public events. VAP maintains a web page at <http://web.mit.edu/vap>.

Faculty Activities and Achievements

Bauer curated a mobile transborder archive as a project of InSite05, and she taught, lectured, and published on curatorial practice both in the United States and abroad. Jacob received LEF Foundation Contemporary Work Fund and MIT Council for the Arts grants. Jonas performed at the Dia Art Foundation and was a lecturer at Yale, New York University, and the Skowhegan School of Art. Wodiczko continued to teach one semester in the Department of Architecture while also serving as director of the Center for Advanced Visual Studies.

Computation

Faculty and Staff

Personnel in the Computation discipline group were professors Terry Knight (on leave, spring), William Mitchell, and George Stiny; associate professor Takehiko Nagakura; assistant professor Larry Sass; professor without tenure (retired) William Porter; principal research scientist Kent Larson; research scientist Stephen Intille; lecturers Joel Turkel (fall) and Dennis Sheldon (spring); and postdoctoral associate Axel Kilian. Knight served as director of the group in the fall; Nagakura served as director in the spring. The search for a junior faculty member to bridge the Computation and Architecture Design groups was closed without a hire.

Program Notes

The research and teaching of the Computation group is focused on areas situated at the intersection of architectural design, computer applications, and computational theory in design representation, synthesis, and construction, with consideration for the broader cultural and societal effects of digital technologies on built form at all scales. The group's work includes applications with immediate implications for current practice as well

as strategic, long-term research with the potential to transform design practice in the future. It is through the latter that the group seeks to distinguish itself from competing programs at other institutions. The group has begun efforts to gain outside funding and cultivate stronger relationships with industry to help support research initiatives and graduate students. Program goals include (1) the expansion of our teaching program to include more undergraduates through a computation stream in the BSAD program (a subject in architectural construction and computation was offered for the first time in fall 2005) and (2) deployment of a distinguished visiting faculty member each year to bridge Computation and the other discipline areas in the department (Axel Kilian, who made a visibly important contribution in bringing Computation pedagogy and research into Architecture Design studios and various Building Technology courses, was appointed to this role for 2007). The Computation Lecture Series included six distinguished academics and practitioners: Neil Leach, George Stiny, Stephen Wolfram, Neil Katz, Allen Sayegh, and Kimberle Koile.

Faculty and Staff Activities and Research

Knight presented the keynote paper at HI'05: Computational and Cognitive Models of Creative Design in Australia; lectured at the Delft University of Technology (TUD); and lectured and taught a seminar at Yildiz Technical University in Istanbul. Mitchell completed two books, *Placing Words* and *Symbols, Space and the City*, both published by MIT Press; received the Doctor of Architecture *Honoris Causa* from Universitat Oberta de Catalunya in Barcelona; lectured at Universidad Iberoamericana in Mexico City; founded the Design Laboratory at MIT to host faculty members from diverse backgrounds in conducting multidisciplinary design research projects; and taught a new subject, Design without Boundaries. Nagakura had a solo exhibition at Gallery A4 in Tokyo; won a Merit Award at the Gyeonggi-do Jeongok Prehistory Museum (Seoul) International Competition; lectured at Universidad Iberoamericana and Kunsthalle Bern; published illustrations in *Art: Architecture by Philip Jodidio* (Prestel Verlag); acquired a patent for the Deskrama, an interactive multiprojection visualization system (Japan); and offered a new subject on digital design media. Sass published papers in *Design Studies* (with R. O. Oxman), the *International Journal of Instructional Technology and Distant Learning* (with F. Casalegno), and the proceedings of the Association for Computer-Aided Architectural Design Research in Asia (with L. Botha; received Best Paper Award). Sass also offered a new undergraduate subject on construction. Stiny's book *Shape: Talking about Seeing and Doing* was published by MIT Press. Kilian presented a number of papers, one of which won a Best Paper Award from the Education and Research in Computer Aided Architectural Design in Europe conference, and led a team of designers that won the Department of Architecture Mini-skyscraper Competition.

Undergraduate Program

Leslie Norford, undergraduate officer, and Renée Caso, administrator for academic programs, continued to support and strengthen the undergraduate experience. Jan Wampler, appointed to the newly created position of director of the undergraduate architecture program, conducted a full review of the undergraduate program relative to other universities and developed improvements to the curriculum to respond to the changing needs of the students and the demands of the profession. A strengthened series of design studios will be a major emphasis, with one new studio to be offered in the

fall for incoming sophomores and a separate undergraduate Level 2 studio for seniors. Also planned are a three-day program for incoming freshmen during orientation, an exhibition of undergraduate work, and a thesis preparation course for undergraduates.

Faculty members who served as undergraduate advisors, in addition to Norford and Wampler, were Arindam Dutta, John Fernandez, Leon Glicksman, Bill Hubbard, Terry Knight (on leave), Erika Naginski, John Ochsendorf, Larry Sass, Anne Spirn, and George Stiny. Twenty-one sophomores entered the department in AY06, joining 14 juniors and 10 seniors to bring the total number of undergraduate majors to 45.

A new fall portfolio seminar was introduced to help juniors develop portfolios to present to potential employers and graduate school admission committees. The department sponsored a number of activities for undergraduates, including an open house for freshmen and admitted students, a new-major orientation program, and senior thesis presentations. Students formed a new organization, the Course 4 Resource Council (4RC), to strengthen the architecture community and encourage leadership among architecture undergraduates. The department supported this organization and its various initiatives, including a tutoring session introducing new students to AUTOCAD and 3DS MAX during IAP and a Campus Preview Weekend “Fun with Balsa” event for admitted students. Maggie Nelson and Diana Nee cochaired 4RC and were undergraduate student representatives on the Architecture Student Council. Carolina Razelli spent the fall term in Delft as an exchange student in the department-initiated TUD–MIT exchange program.

Aga Khan Program for Islamic Architecture

The Aga Khan Program for Islamic Architecture (AKPIA) at MIT, established in 1979, is a leading program in the study of architecture in the Islamic world. Its outreach activities include a lecture series, a travel grant program open to all students in the School of Architecture and Planning, a visiting postdoctoral program, and international conferences and workshops. Faculty and staff, listed in the department under the History, Theory, and Criticism Program, were associate professor Nasser Rabbat, director of the program, associate professor Heghnar Watenpaugh (until December), and lecturer Robert Cowherd (spring). In 2005–2006 there were six PhD and six SMArch students in the program, which also hosted three postdoctoral fellows.

Program Activities

AKPIA hosted an international conference (the Mosque in the West) at MIT on April 21–22 and a workshop on October 29 (the Mamluk Domes of Cairo). AKPIA’s lecture series featured talks by Lara Tohme, Glaire Anderson, Gannit Ankori, Can Bilsel, Paolo Girardelli, and Mahmoud Hawari.

Faculty Activities

Rabbat published a book, *Making Cairo Medieval*, which was coedited with Nezar AlSayyad and Irene Bierman (Lanham, MD: Lexington Press, 2005); in addition, he published numerous articles in English and Arabic and lectured widely. He was chair and organizer of the “Islamic Art and the Multicultural Method” session at the College Art Association’s annual conference.

Department of Architecture Enrollments

As of October 2005, Course 4 counted a total of 259 students: 52 undergraduates (including 1 special [nondegree] undergraduate), 91 MArch students, 49 SMArchS students, 4 SMBT students, 6 SMVisS students, 37 resident PhD students, 15 nonresident PhD students, 4 exchange graduate students, and 1 special (nondegree) student. The exchange students were from TUD (2 MArch equivalent), Fondazione di Studi Avanzati in Venezia (1 PhD), and the University of California at Berkeley (1 PhD exchange scholar).

Across the Department

Financial Aid and Teaching Assistantships

The department made several significant changes in the way financial aid is awarded and administered for master's degree students. First, we changed the overall practice of awarding tuition scholarships from a need-based method to a merit-based method (bringing us into alignment with other departments at MIT). Second, we increased the scholarship funds offered to the best applicants (and therefore reduced the number of scholarships offered). Third, we provided students with an opportunity to apply for merit-based supplementary scholarship aid in subsequent years. Finally, we changed the teaching assistant (TA) system for master's degree students to ensure that TAs are paid equitably relative to their science and engineering colleagues and to ensure that students gain valuable teaching experience. As a result, we had fewer TA positions available, but the amounts paid to individual teaching assistants significantly increased. We are now more confident that teaching, rather than administrative tasks, is central to the position.

Mini-skyscraper Competition

Yung Ho Chang initiated MIT's first-ever mini-skyscraper design competition, which was open to students in any discipline at MIT and elsewhere. The program required that the structure not exceed a base of 7 by 7 feet, be between 30 and 40 feet high, and meet a budget of \$7,000. The winning project by Axel Kilian, Philippe Block, Peter Schmitt, and John Snavely was a tower built of pneumatic tubes, nicknamed "Muscles," that could be manipulated to bend in different directions; the project was intended as an exploration into how to make buildings respond to external natural forces such as wind and earth movement. The tower animated its location in front of the MIT Student Center throughout Commencement week.

Real Time China

Learning that a remarkable number of Chinese scholars and practitioners happened to be clustered in the New England and New York City areas this spring, Chang and Juan Du arranged to bring them to MIT for a daylong symposium on the current state of architecture and urbanism research in China.

Response to Katrina

Faculty and students confronted the disaster that was Hurricane Katrina in a number of ways. Reinhard Goethert connected a team of students with Oxfam and TRAC, a Louisiana nongovernmental organization, to design a house that could withstand

flooding in coastal areas. Jan Wampler, in association with the Urban Conservancy, conducted a studio on housing in New Orleans. John Fernandez sought to identify sustainable building materials and technologies that would help mitigate the effects of wind and water and, along with Urban Studies and Planning faculty member Philip Thomson, initiated a project intended to produce locally manufactured, hurricane-resistant housing for New Orleans in an effort that would also include employment training.

Lectures

In the fall, the Architecture Lecture Series was organized around the theme “Building 1: 8 × 8.” Speakers were Nader Tehrani, Fernando Romero, Peter Cook, Ken Yeang, Michael Bell, Peter Davidson, and Jiakun Liu. In the spring the theme was “Social and Cultural.” Speakers were Craig Dykers, Andrea Deplazes, Andrew Freear, Bernard Khoury, Jae Cha, Steven Holl, Ying-Chun Hsieh, and Sheng-yuan Hwang. Wiel Arets presented the 18th Arthur H. Schein Memorial Lecture. Thom Mayne presented the 13th Pietro Belluschi Lecture. Public lecture series also were sponsored by the Building Technology; Visual Arts; History, Theory, and Criticism; Computation; and Aga Khan programs.

Exhibitions

The department supported exhibitions on architecture organized by the MIT Museum for the Wolk Gallery by sharing publicity efforts and offering associated lectures, including “Waclaw Zalewski: Shaping Structures,” “digital-minimal” (projects by SENSEable City Lab and carlorattiassociati), “Architecture and Revolution in Cuba,” and “J. Meejin Yoon, Rock Paper Scissors: Projects by MY Studio.”

Publications

Thresholds, a journal edited and produced by students and published twice a year, is noted for developing diverse architectural themes in each issue; this year the themes were “Microcosms” (Issue 30) and “Ephemera” (Issue 31). *Foundations* is a periodic electronic newsletter sent to approximately 2,400 undergraduate and graduate alumni whose email addresses are registered with the Alumni Association. The newsletter contains brief items about the department as well as news of and opportunities for alumni.

Architecture Student Council

The Architecture Student Council (ASC) played an active role in the governance and community life of the department. As a student voice, the ASC organized discussion sessions with students and faculty to communicate concerns about thesis procedures and changes in the teaching assistantship policy as well as to monitor needs with regard to computer resources. ASC members served on recent faculty search committees and assisted with department space planning. During open houses for prospective and admitted students, ASC members led tours and helped field questions. As agents assisting in collecting and displaying student work, members helped organize and reinstate the publication of a Course 4 book and helped organize a facelift for the

department's home page on the web. Also, ASC members helped compile student work to present to visitors on the department's LCD displays.

ASC-sponsored events ranged from department-wide town hall meetings to informal parties, and the council also provided refreshments for other events, such as the mini-skyscraper opening. ASC officers were Casey Renner, president; Saeed Arida, vice president; Peter de Pasquale, treasurer; and Rebecca Edson, secretary. Representatives were Maggie Nelson and Diana Nee (BSAD); Zach Lamb and Andrea Brennan (MArch 1); Casey Renner and Peter de Pasquale (MArch 2); Rebecca Edson and Ophelia Wilkins (MArch 3); Elliot Felix, fall, and David Foxe, spring (MArch thesis); Non Arkaraprasertkul (SMArchS 1); Kenny Verbeeck (SMArchS 2); Holly LaDue (PhD HTC); Saeed Arida (PhD Computation); and Nick Gayesk (BT).

Student Awards and Fellowships

The Department of Architecture honored the accomplishments of the following graduate and undergraduate students.

- Alpha Rho Chi Medal for a graduating student for service, leadership, and promise of professional merit: Michael Ramage
- American Institute of Architects (AIA) Certificate of Merit: Elliot Felix
- AIA Medal for top-ranking graduating MArch student: Marie Law
- Exchange Scholars to TUD: Jenna Fizel, Caitlin Mueller, Maggie Nelson
- Marvin E. Goody Award: Joseph Dahmen
- Marjorie Pierce/Dean William Emerson Fellowship Award for outstanding academic and design achievement by a Level 2 woman: Margaret Hwang
- Renzo Piano Workshop Internship: Matthew Chua
- Takenaka Internship: Omar Rabie
- William Everett Chamberlain Prize for achievement in design: Weifeng (Victoria) Lee
- Outstanding Undergraduate Prize for academic and design excellence: Noel Davis
- Francis Ward Chandler Prize for achievement in architectural design: Marco Marraccini
- Aga Khan Program Summer 2006 Travel Grants: Razan Francis, Omar Rabie, Sadia Shirazi
- Murcutt Master Class Scholarship: Stephen Perdue
- Schlossman Research Award: Faisal Hassan
- Tucker Voss Award: Noel Davis
- SMArchS Prize: Olga Touloumi, Emily Whiting, Maria Zafeiriadou

- Kristen Ellen Finnegan Memorial Award: Jennifer Ferng (for 2006) and Winne Wong (for 2007)
- Undergraduate Faculty Design Award: Michelle Ha
- Sidney B. Karofsky '37 Prize for the outstanding MArch student with one further year of study: Stephen Perdue
- Rosemary D. Grimshaw Award: Brenda Galvez Moretti
- Rosalia Elisa Ennis (MArch '76) Research Award: Fallon Samuels
- KPF Travelling Fellowship Nominee: Saud Sharaf
- Royal Fund: M. Fabiola Lopez-Duran

Institute and other awards recognized the following students.

- Phi Beta Kappa: Carolina Razelli
- Robert Bradford Newman Medal for Merit in Architectural Acoustics: Joseph Dahmen
- Henry Luce Research Fellowship: Patrick Haughey, Zahra Pamela Karimi, Michael Osman
- MIT-CCA Collection Research Fellowship: Lucia Allais and Ila Sheren
- American Association of University Women International Fellowship: Pamela Karimi
- Gerald R. Ford Foundation Research Grant: Patrick Haughey
- Henry Luce Foundation ACLS Dissertation Fellowship: Lauren Kroiz
- Graham Foundation Merit Citation: Ijlal Muzaffar
- Cornell University College of Architecture and Planning Robert James Eidlitz Fellowship: Razan Francis and Alyson J. Liss
- Harry S. Truman Library Institute Research Grant, Historians of Islamic Art Graduate Student Travel Grant: Pamela Karimi
- Minda de Gunzburg Center for European Studies at Harvard University Krupp Foundation Fellowship: Lucia Allais
- Presbyterian Historical Society Research Fellowship Program: Pamela Karimi
- Asian Cultural Council Starr Foundation Fellowship: Non Arkaraprasertkul
- MIT-Germany Program Research Internship: Remei Capdevila Werning
- Laya and Jerome B. Weisner Award: Oliver Lutz
- Renaissance Society of America Research Fellowship: Katherine Wheeler
- Social Science Research Council Andrew W. Mellon International Dissertation Field Research Fellowship: Pamela Karimi

- Social Science Research Council Pre-Dissertation Fellowship for International Collaboration: Winnie Won Yin Wong
- Harold and Arlene Schnitzer Prize in the Visual Arts: Lira Nikolovska, Oliver Lutz, Azra Aksamija
- Laboratoire Les Métiers de l'Histoire de l'Architecture École Nationale Supérieure d'Architecture de Grenoble Research Internship: Peter Minosh
- National Science Foundation Dissertation Grant: Michael Osman
- Caja de Ahorros y Pensiones de Barcelona/La Caixa Fellowship: Remei Capdevila Werning
- America-Israel Cultural Foundation Award of Excellence in the Field of Architecture: Neri Oxman

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More information about the Department of Architecture can be found at <http://architecture.mit.edu/>.