A Program of Graduate Studies in the

Design of Urban Places

for the Degree

Master of Urban Design

Departments of Architecture, City and Regional Planning,
and Landscape Architecture and Environmental Planning

2017-2018

THE PROGRAM IN THE DESIGN OF URBAN PLACES

The Program in the Design of Urban Places is a unique interdisciplinary program of advanced study in which exceptional planners, architects, and landscape architects holding professional degrees can partake in an intense, focused learning experience. They will share working methods, acquire additional skills, and explore new avenues of development under the supervision of an interdisciplinary group of faculty members in the College of Environmental Design drawn from the Departments of Architecture, Landscape Architecture and Environmental Planning, and City and Regional Planning.

The program addresses the need for professionals who are specifically concerned with the design of varied urban areas open to public use. The activities of urban design are diverse in both type and scale. Urban designers may be concerned with settlement patterns in urbanizing areas, the restructuring of inner cities, and the design of streets and open spaces, buildings, and landscape patterns that establish neighborhoods and provide the settings for public life. They may shape the form and space of specific places such as civic or shopping centers, or they may design citywide systems such as streets, lighting, signing, greenways, or bicycle and pedestrian ways. They may work on infill in older towns and cities, or they may prepare plans, guidelines, or standards to manage extensive new development at the metropolitan growth edge.

The need for urban designers is as urgent today as in any period of recent history. Worldwide, the cities of both developing and developed countries are struggling with problems of managing rapid growth. Urban design professionals are as necessary in cities of developing countries where infrastructure and land use patterns are being established as in developed cities, where historical continuity and the reuse of existing sites are major issues.

Urban places are shaped by many forces acting over long spans of time. The design of good places--places that are configured so that they will sustain reasonable patterns of development, provide valuable opportunities for public and private involvement, and nurture citizenship—requires many skills. Their design requires consideration of current users, as well as unknown future users. Ecological, cultural, social, political, technical, and financial issues must be addressed.

Today as more and more land is developed in patterns that are dehumanizing and wasteful, our core cities continue to decline. Repair of the country's urban infrastructure is an increasingly important priority. Under these circumstances designers are needed who are able to work effectively in teams across a range of scales and with a well-developed understanding of urban places and the interdependencies of the fabric of buildings, landscapes, public ways, and the social interactions that shape them. Professionals are in demand who can deal creatively with urban design problems both within existing towns and cities and at the growth edge of the metropolis. Older inner city districts require rethinking and adaptation to new uses and to new groups of users. At the same time, cities are expanding at an unprecedented pace into open land. New models for dealing with peripheral growth are desperately needed that are socially informed and ecologically sensitive.

A Brief History of Urban Design

The intentional shaping of cities to serve the sacred, defensive, political, and economic goals of societies is as old as the city itself. However, the roots of contemporary urban design are relatively recent and may be traced to the Industrial Revolution when people sought ways to deal with the unhealthful and chaotic living conditions of the industrial city. Thinking followed three main directions: utopian visions for ideal communities, development of minimum standards for housing and sanitation, and examination of ways of making the city more efficient through improvement of transportation and services. By the early twentieth century several directions in urban design had been established. One model, the Garden City, initiated by Ebenezer Howard in the late 1890s, was developed and advocated by Raymond Unwin, Clarence Stein, Henry Wright, Lewis Mumford, and others; it continues to be an influence even today in "neotraditional" or New Urbanist community design. A second approach was that of formalists such as Camillo Sitte, a nineteenth century Viennese architect who admired medieval urban patterns and treated urban spaces as aesthetic arrangements of building masses, facades, and street spaces. Such threads of formalist thinking have run through urban design history from ancient times into the present. Another variant of the formalist tradition, sometimes termed the "City Beautiful" movement, was rooted in Renaissance and Baroque urbanism and looked at the city as a network of formal streets and spaces, marked by striking monuments. A third major direction, the "Parks Movement," pioneered by Frederick Law Olmsted, Calvert Vaux, and George Kessler, focused on ways of introducing and integrating natural systems into the city at the metropolitan scale. Many American cities today enjoy the legacy of this movement. A fourth model, introduced by Tony Garnier and further developed by Le Corbusier, Walter Gropius, and others in the first half of the twentieth century, looked at the city in terms of efficiency and function and tried to provide access to light, air, and space using new techniques of construction and transportation. In each of these models there was a strong belief that good city form contributed to the health and well-being of people, and that cities should be designed, yet each model hypothesized a different relation between people and spaces.

In the United States urban design as a distinct profession within the environmental design fields did not appear until after World War II when the federal urban renewal and highway programs stimulated rebuilding of major portions of American cities. Early in the process it became clear that special skills were needed to deal with environmental change at this scale—the city could not be treated merely as large scale architecture and the social/cultural context needed to be addressed.

In recent decades urban design in the United States has gone beyond its traditional concerns for formal and functional spatial organization to address the social/cultural context and the processes of community change. Today the field is being shaped in new ways by an increasingly pluralist society. The public realm is in the process of being redefined and reinvented. Environmental change is more incremental and subject to increasing public review. At the same time, many American cities are expanding at their edges at an unprecedented rate, while central cities are losing residents, jobs, and public support. A renewed focus on creative urban design is needed now more than ever.

COURSES IN THE PROGRAM

The Master of Urban Design degree combines a common core curriculum with the opportunity to take elective courses tailored to a student's particular areas of interest.

The core courses of the program include two studios and three seminars created specifically for Master of Urban Design (MUD) students. In the fall semester MUD students enroll in the Urban Places Advanced Studio (ENV DES 201), led by one of the MUD faculty with part-time involvement of two or three others. This intensive studio involves collaborative work on problems that are large in scope, yet require attention to spatial organization and design details; projects often involve the exploration of design options for areas under consideration by governmental agencies. The second fall semester core course is the Discourses in Urban Design (ENV DES 251), which is an introduction to the program, the faculty resources, and issues arising in current urban design practice. The third core course, also in the fall term, is the Urban Places Economics Module (CP 298), which introduces key economic issues and concepts. The fourth core course is a seminar, Urban Place Studies (ENV DES 252), held in the spring term that brings all candidates in the program together to develop and discuss with core faculty their individual thesis/advanced design projects. In the summer, MUD students enroll in the MUD thesis and advanced design projects studio (ENV DES 253), led by an Urban Design practitioner with part-time involvement of MUD faculty. The summer studio provides students with guidance leading to completion of their thesis or design projects by late summer and presentation to faculty and students during orientation week of fall semester.

An additional requirement of the program is a second studio course to be taken in the spring semester, selected from one of the existing graduate studio offerings in the three departments. As advanced candidates, students from this program are expected to take a leadership role in these studios, assisting with the preparation, conduct, or evaluation of the studio and relating it to the content of the Master of Urban Design program.

Students must also complete a course that offers instruction in methods for urban design practice or research and a course in urban design history or theory.

Finally, in addition to these required courses, students have the opportunity to take several elective courses from offerings in the College of Environmental Design. These courses typically relate to the student's thesis topic and are selected by the student in consultation with MUD faculty.

DEGREE REQUIREMENTS

To earn the MUD degree, students must complete one year in residence, 32 units of coursework, the core curriculum, and a Master's thesis or an advanced design project.

	Units
CORE CURRICULUM	
Every MUD student must complete the following core curriculum:	
Urban Places Courses: Students must complete all of the following courses:	
ENV DES 201: Urban Places Advanced Studio (Fall, 5 units)	5
ENV DES 251: Discourses in Urban Design (Fall, 3 units)	3
CP 298: Urban Places Economics Module (Fall, 1 unit)	1
ENV DES 252: Urban Place Studies (Sp, 3 units)	3
Second Studio Requirement: Students must complete one of the following courses:	5
ARCH 202: Case Studies in Architectural Design—urban design focus (Sp, 5 units)	
CY PLAN 248: Advanced Urban Design Studio (Sp, 5 units)	
LD ARCH 202: Design of Landscape Sites (Sp, 5 units)	
LD ARCH 204: Advanced Project Design (Sp, 5 units)	
LD ARCH 205: Environmental Planning Studio—urban design focus (Sp, 5 units)	
Methods Requirement: Students must complete one of the following courses:	3-4
LD ARCH 241/CY PLAN 241: Research Methods in Environmental Design (F, 4 units) ‡	
LD ARCH 242/CY PLAN 261: Citizen Participation in the Planning Process (F, 3 units) ‡	
ARCH 209A-X: Seminar in Architectural Design—urban design focus (F or SP, 3 units)	
History/Theory Requirement: Students must complete one of the following courses: †	2-3
LD ARCH 250/CY PLAN 240: History and Theory of Urban Form (Sp, 3 units) ‡	
CY 249: Urban Design in Planning (Sp, 3 units)	
ARCH 219A: Design and Housing in the Developing World (Sp, 3 units)	
LD ARCH 251: Theories of Landscape Architecture and Environmental Planning (F, 2 units)	
MUD Summer Studio: Students must complete the following course:	4-6
ENV DES 253: Urban Places Thesis Studio (Summer, 4-6 units)	
ELECTIVES	4-6
TOTAL UNITS	32

‡ These courses are cross-listed in both the Department of Landscape Architecture and the Department of City and Regional Planning; MUD students may enroll using either course number.

† Students without a previous history/theory course of urban form are expected to enroll in LD ARCH 250/CY PLAN 240.

SAMPLE PROGRAM

FALL SEMESTER	UNITS
ENV DES 201: Urban Places Advanced Studio	5
ENV DES 251: Discourses in Urban Design	3
CP 298: Urban Places Economics Module	1
Methods Course	3-4
History/Theory Course or Elective	2-3
	14-16

WINTER BREAK

Students are expected to work on their thesis/ advanced design project over the winter break

SPRING SEMESTER	UNITS
ENV DES 252: Urban Place Studies	3
Studio (urban design focus)	5
History/Theory Course or Elective	3
Elective or Independent Study	1-3
	12-14

SUMMER	UNITS
ENV DES 253: Urban Places Thesis Studio*	4-6
Total Units	32

* ENV DES 253 is held during UC Berkeley's Summer Session B, a 10-week session that runs from early June through mid-August.

THESIS/ADVANCED DESIGN PROJECT

Students have a choice of pursuing two different types of theses: either a **Thesis-design Project** (Plan I), filed with the Graduate Division, or an **Advanced Design Project** (Plan II), filed with the MUD Program. The fundamental differences are of emphasis, starting point and filing requirements.

The **Thesis–design Project** (Plan I) starts with a topic or issue and a set of related questions. It is explored through a review of relevant scholarly literature, applicable case studies and logical analysis of the discourse in the topic area. The exploration leads to a design proposition (or thesis) that demonstrates how the exploration is transformative in the creation of urban places. It must demonstrate its impact through a design that engages the spatial and environmental analysis of a particular site and context.

Requirements:

- Students must form a Committee with a minimum of three members of the Berkeley Academic Senate including at least two from the MUD Graduate Group.
- The thesis is a written document that along with the drawings presented at the final review is filed with the Graduate Division on their filing date and is archived in the CED Library.
- The thesis must conform to proper scholarly conventions and satisfy the style guidelines of the Graduate Division.

Schedule:

- A preliminary thesis proposal is prepared during the fall semester (in ENV DES 251) and presented to the MUD faculty at the end of the semester.
- The thesis is substantially developed during the spring semester (in ENV DES 252) and presented to the MUD faculty at a series of pin-ups.
- Students must have formed their Committee and identified their thesis Chair by the end of the third week of the spring semester.
- Students must present a draft of their thesis chapters with preliminary exploratory drawings and diagrams of their design application at the end of the semester.
- The thesis is finalized during the summer (in ENV DES 253) and a finished draft must be completed and signed off on by each student's Committee and filed by the end of Summer Sessions (approximately August 15)
- The final thesis is presented to MUD faculty, alumni and in-coming MUD students at the beginning of the fall semester. During the period between the sign-off on the final draft and the final presentation, students are allowed to add additional drawings and diagrams that help explain their thesis.

The **Advanced Design Project** (Plan II) starts with a specific site, program or design problem. It is explored through extensive site analysis, review and analysis of relevant precedents, the development of design alternatives leading to a design proposition that addresses the challenges of the site and problem.

Requirements:

- Students must form a Committee including at least two members from the MUD Graduate Group and are encouraged to add additional members from the Academic Senate or the professional community with expertise in their project.
- The work leads to a Professional Report, a document that includes all the drawings from the final presentation and a brief written description that describes the project and the design approach and concept, i.e., the design project. It is filed with the MUD program.
- While conforming to proper scholarly conventions, the format and graphic design is up to the student.

Schedule:

- A preliminary design proposal is prepared during the fall semester (in ENV DES 251) and presented to the MUD faculty at the end of the semester.
- The work is substantially developed during the spring semester (in ENV DES 252) and presented to the MUD faculty at a series of pin-ups.
- Students must have formed their Committee and identified their Professional Report Chair by the end of the third week of the spring semester.
- Students must present a draft of their thesis with preliminary exploratory drawings and diagrams of their design propositions at the end of the semester.
- The work is finalized during the summer (in ENV DES 253) and a substantially completed draft of the Professional Report must be completed and filed by the end of Summer Sessions (approximately August 15). The draft should include a signature page, and should be in electronic form.
- The final advanced design project is presented to MUD faculty, alumni and in-coming MUD students at the beginning of the fall semester.
- A revised version of the Professional Report (in electronic form) is due at the end of September.

HUMAN RESEARCH PROTECTION

The Committee for Protection of Human Subjects (CPHS) serves as the institutional review board (IRB) at UC Berkeley. The IRB must review and approve the use of human subjects in research. The process is designed to ensure that the rights and welfare of human subjects are protected throughout their participation in research projects. UC Berkeley operates within the regulations and guidelines set forth by federal authorities, primarily the Office for Human Research Protections and the Food and Drug Administration, as well as other bodies. The Office for the Protection of Human Subjects (OPHS) provides operational and staffing support to the CPHS and administers all human subjects research performed on behalf of UC Berkeley. To determine if your project requires CPHS/OPHS review, we suggest that you start with the links below. Protocol approval is needed before any surveys or interviews are conducted.

What Needs CPHS/OPHS Review:
http://cphs.berkeley.edu/review.html

Where to Start: Decision Tree:
http://cphs.berkeley.edu/DecisionTree.pdf

CPHS Guidelines on Exempt Research:
http://cphs.berkeley.edu/exempt.pdf

CORE COURSE DESCRIPTIONS

ENV DES 201 Urban Places Advanced Studio (F, 5 units)

The advanced design studio is led by one of the core faculty, with part-time involvement by two or three others. The studio involves collaborative work on problems that are large in scope, yet require attention to spatial organization and design details. This core urban design studio differs from traditional studios in several ways. First, the level of work expected of students with advanced standing allows the exploration in depth of complex urban design problems that normally exceed the capacities of first professional degree students. Second, the studio design work is broader in scope and more integrated in approach than is normally possible; the range of professional backgrounds that the student and faculty participants bring to the discussions and design explorations enables all students to recognize and work with the interrelated problems of urban design and to learn how to work together effectively in interdisciplinary teams. Third, the work examines both public and private development opportunities and is cast in a mode that can be communicated to public agencies and subjected to internal criticism and debate. Finally, the studio is often conducted in collaboration with city agencies addressing identified needs. We expect to foresee urban issues and design

problems that will soon be coming into public focus and to conduct and present exploratory studies that will help shape those issues for further professional study and public involvement.

ENV DES 251 Discourses and Methods in Contemporary Urban Design (F, 3 units)

This seminar introduces students to the Design of Urban Places program and faculty resources. Issues arising in current urban design practice are presented in lectures followed by a seminar discussing contemporary design approaches. Over the course of the semester, students are expected to consider a preliminary advanced project design or thesis proposal and prepared to present it to the MUD faculty.

CY PLAN 298 Urban Places Economics (F, 1 unit)

A special MUD economics module will take place for five weeks within the semester. This module focuses on important urban economic issues urban designers should be familiar with, as well as practical strategies for economic analysis related to planning and development projects.

ENV DES 252 Urban Place Studies (Sp, 3 units)

This seminar focuses on individual urban design interests, particularly on research and design for thesis/advanced design project. Thesis project topics are developed individually by the student in consultation with faculty of the Graduate Group in Urban Design. Coursework consists of lectures, discussions, and student presentations. Students are expected to have a highly developed thesis/advanced design project and three written draft chapters by the end of the course.

ENV DES 253 Urban Places Thesis Studio (Summer, 4-6 units)

The summer thesis studio provides students with a supportive environment in which to complete their self-directed individual design thesis projects. Guidance is provided by a professional urban design practitioner who directs the studio with participation by other practitioners and some faculty of the Graduate Group in Urban Design. Work leads to completion of the thesis design project by late summer and presentation to faculty and students during orientation week of the fall.

ADMISSIONS

The Master of Urban Design program is intended for exceptionally qualified students who already have professional work experience. Students must demonstrate evidence of high-quality work and potential for development based on the grade-point average, Graduate Record Examination (GRE) or TOEFL scores, letters of recommendation, and examples of work.

Admission to the Master of Urban Design program requires a prior professional degree in Architecture (B. Arch. or M. Arch.), Landscape Architecture (B.L.A. or M.L.A.), or City and Regional Planning (M.C.P., M.U.P., or equivalent with a strong design background). Professional experience after completion of the professional degree is recommended but not required, depending on the quality of the student's work. In addition, students must have taken courses in history and theories of urban form comparable to CY PLAN 240. Students without this preparation will be expected to enroll in CY PLAN 240.

Applicants must submit the online Graduate Division application together with the application fee by mid-December. All items are electronic, and must be uploaded to your application. For specific admission instructions, please see the program website at: http://ced.berkeley.edu/admissions/graduate

- UC Berkeley's Graduate Division application
- Statement of purpose
- Statement of Personal History
- Résumé
- Official transcripts
- Three letters of recommendation
- GRE scores (if applicable)
- TOEFL scores (if applicable - minimum score of 90 [iBT])
- A portfolio of design work

Note: All applicants from countries in which the official language is not English are required to submit official evidence of English language proficiency. This requirement applies to applicants from Bangladesh, Nepal, India, Pakistan, Latin America, the Middle East, Israel, the People's Republic of China, Taiwan, Japan, Korea, Southeast Asia, most European countries, and non-English-speaking countries in Africa. For International applicant admission questions please contact the Graduate Admissions Office at: Phone: 510-642-7405 or Email: gradadm@berkeley.edu.

RESOURCES OF THE COLLEGE

- Environmental Design Library
- Environmental Simulation Laboratory
- Center for Environmental Design Research
- Institute for Urban and Regional Development
- Geographic and Information Science Laboratory
- UC Transportation Research Center
- Boundary Wind Tunnel and the Artificial Sky Simulator
- Shrinking Cities, International Design Workshops with Waseda and Meiji Universities, Japan
- International Design Workshop, South China University of Technology, Guangzhou, China
- *Places : A Forum of Environmental Design* journal
- *Journal of Urban Design* North American editorial office

URBAN DESIGN OPTIONS AT BERKELEY

The College of Environmental Design now offers several urban design options.

- Urban Design concentrations are possible in each of the professional degree programs: Master of City Planning (2 years), Master of Landscape Architecture (2-3 years), and Master of Architecture (1-3 years).
- A concurrent degree program in Urban Design (offering the M.L.A. and M.C.P.) is offered by the Departments of Landscape Architecture and Environmental Planning and City and Regional Planning (3 years).
- A concurrent degree program in Urban Design (offering both the M.C.P. and M. Arch.) is offered by the Departments of Architecture and City and Regional Planning (2-4 years).
- The Ph.D. programs in the Departments of Architecture, Landscape Architecture, and City and Regional Planning all allow specialization in Urban Design.

The Master of Urban Design degree program described here differs from these options in its advanced level and interdisciplinary nature, as well as the concentrated time for completion.

FACULTY

The College of Environmental Design currently has outstanding faculty resources for urban design education and research. For many decades the Department of Architecture has been noted for contextual design with leaders such as William Wurster, Joseph Esherick, Vernon DeMars, and Charles Moore. Beginning in the late 1940s the Department of City Planning laid a solid foundation for urban design in its physical approach to city planning in the work of T. J. Kent, Jr., Corwin Mocine, Sidney Williams, and Fran Violich. In the late 1960s urban design education at Berkeley gained momentum with the appointments of Donald Appleyard and Roger Montgomery. Appleyard, who had studied and worked under Kevin Lynch at MIT, brought a strong interest in environmental perception. Under his leadership the Environmental Simulation Laboratory and *Places* magazine were founded. In the 1970s both Allan Jacobs, the former planning director for San Francisco, and Donlyn Lyndon joined the College faculty.

The core faculty group in urban design is comprised of those faculty from the three departments in the College of Environmental Design who are engaged in urban design research, teaching, and professional practice. In addition, there are several other faculty whose teaching and research connect with urban design. Current faculty research interests include design of streets and public places, urban infill and repair, design at the urban edge, design standards and review, design of educative cities, environmental simulation, form and structure of urban places, and urban density and scale.

Nezar AlSayyad, Ph.D., M.S., D.T.P., B. Arch.

An architect, planner, and urban historian, Professor AlSayyad teaches courses on the history of housing and urban design and urban development with special emphasis on the developing world, as well as design studios. His books *Cities and Caliphs*,1991, *Forms of Dominance*,1993, *Consuming Tradition*,2000, *The End of Tradition*,2004, and *Cairo*, 2011 deal with general and specific subjects in urban design and urbanism in a comparative or transnational perspective. Professor AlSayyad is the co-founder and president of the International Association for the Study of Traditional Environments (IASTE) and editor of its journal, *Traditional Dwellings and Settlements Review*. He currently Faculty Director the new Center for Arab Societies and Environments Studies (CASES) on the U. C. Berkeley campus. As a Practitioner, Professor AlSayyad is also Principal of the firm XXA- the office of Xross-Xultural-Architecture, a practice with a focus on design in the non-western world, and a specialty on the Middle East.

Richard Bender, M.Arch., B.C.E. Civil Engineering (Emeritus)

Emeritus Dean and Professor of the College of Environmental Design at Berkeley, Richard Bender is an architect, civil engineer and planner with a practice specializing in urban and community planning, town planning, campus planning and the planning and replanning of obsolete and damaged industrial and waste sites. He has been involved in the planning of new towns and large-scale urban development projects around

the world. Professor Bender serves as the director of the Urban Construction Laboratory at Berkeley, and is the Visiting "GC-5" Professor of Urban Design and Construction at Tokyo University and Honorary Professor at the Universit Europeene de Maitrise D'Oeuvre Urbaine in Cergy-Pontoise, France. As the organizer and first chair of the City Planning Commission's Architectural Review Panel, he was involved in the "Downtown Plan" for San Francisco. Professor Bender was a founding director of the non-profit Bridge Housing Corporation.

Peter C. Bosselmann, Dipl. Ing. Arch., M. Arch. (Emeritus)

Professor Bosselmann works nationally and internationally on urban design and planning projects. He received Progressive Architecture awards, APA, ASLA and ARCH Institute awards for his urban design work in New York City, Toronto and San Francisco He established urban simulation laboratories in Milan, New York City and in Tokyo, modeled after the Berkeley laboratory that has been under his direction since 1983. His recent book, *Urban Transformation – Understanding City Design and Form*, 2008 explores how designers gain empirical knowledge necessary for the transformation of cities. His earlier book, *Representation of Places: Reality and Realism in City Design*,1998, found much acclaim among scholars in history, psychology, journalism, geography, film, architecture and planning. Bosselmann held endowed chairs at Tokyo University, the Royal Academy of Arts in Copenhagen, at the Milan Politecnico and a visiting professor ship at Delft in the Netherlands. He has produced numerous educational films about urban design issues in San Francisco and New York City; memorable ones include Times Square narrated by Jason Robards, and New York's Upper East Side, narrated by Paul Newman. His latest book Adaptations, the metropolitan landscape of three delta regions is scheduled to appear in early 2017.

Christopher Calott, M. Arch., B.A. Urban Theory & Design

Christopher Calott is the Lalanne Chair in Real Estate, Architecture & Urbanism, and the Faculty Director of the Master of Real Estate Development + Design Program beginning in 2018. Calott is an award-winning architect, urban designer, academic and real estate developer. Formerly the principal of CALOTT + GIFFORD Architecture / Urban Design and founding partner of the real estate development firm INFILL SOLUTIONS: Innovative Urban Design and Development, his two firms worked together to create innovative mixed-use urban housing, dense infill developments, affordable housing, transit-oriented developments, and vibrant public plazas working principally in cities throughout the American Southwest. He has also pursued significant research in the areas of urbanism, housing, and community-based design practices through published investigations tied to teaching appointments at numerous universities throughout the United States, Mexico, and Latin America. Prior to his arrival at the CED, Calott was the Director of the Master of Sustainable Real Estate Development Program at Tulane University's School of Architecture, where he developed a curriculum in "regenerative development", working with students in post-Katrina New Orleans,

and throughout the United States. Calott's current design and real estate development practice in the Bay Area is actively engaged in large infill redevelopment projects which seek solutions to affordable housing and social equity issues in the region.

Renée Chow, M. Arch.

Professor Chow's design work, research and teaching focus on the production of the everyday environment -- premised on seeing built and open spaces, public and private places as a continuum that holds our communities and cultures. Her writing describes alternatives for practice and strategies for addressing contemporary problems of city building. She is author of an award winning book, *Suburban Space: The Fabric of Dwelling* (2002) and has recently published a book entitled *Field Urbanism: Changing Forms of Chinese Cities*. She is a Principal of Studio URBIS and with the firm she has completed numerous residential, commercial, institutional, and urban design projects in the United States and China. She currently serves as Associate Dean for Undergraduate Studies and held the Eva Li Chair in Design Ethics from 2005-2010. Chow received both her undergraduate and M.Arch. degrees from Massachusetts Institute of Technology.

Margaret Crawford, Ph.D. Urban Planning

Margaret Crawford has been involved with Urban Design since the late 1990s, when she co-taught Urban Design studios at SCI-Arc. That led to co-editing the book, Everyday Urbanism with John Kaliski (practicing architect and urban designer) and John Chase (writer and Urban Designer for the city of West Hollywood). The book made a significant impact in the urban design community, leading Doug Kelbaugh to call it "one of the 3 leading paradigms today in urban design." From 2000-2009, Crawford was a tenured professor in the Urban Design program at the GSD, teaching a required history class (Histories and Theories of Urban Intervention), workshops (Listening to the City) and studios (101 Urban Salvations).

René Davids, A.I.A., M.A., B.Arch.

Rene Davids, F.A.I.A. has an architectural degree from the Universidad de Chile in Santiago and M. Des. from the Royal College in London, UK and is a principal of Davids Killory Architecture. Work includes: Sunrise Place housing for extended families and Daybreak Grove housing for homeless mothers and children, both in Escondido, California; Observatory House in San Diego, Red House in Berkeley, California. The design work of Davids Killory Architects is a laboratory for the exploration of new materials and technologies as well as the reinterpretation of traditional building types, the potential for landscape to influence architectural form, and the development of architecture responsive to social change. The work of the firm has been published around the world and honored with numerous awards, among them two Presidential Design Awards from the National Endowment for the Arts, three AIA National Honor and Progressive Architecture Awards. Davids was awarded (2008) first prize (with Taylor Medlin) out of 733 entries for the 43rd World Heritage Site competition sponsored by Central Glass and Shinkenchiku Corporation, and an Honorable Mention with

Eleanor Pries at the San Francisco Botanical Garden's Godwanna Circle competition (2009). A recipient of the John Simon Guggenheim Memorial Foundation Fellowship , Davids is currently working on a book that examines the relationship between topography and urbanism in selected Latin American cities. With Christine Killory he received a Graham Foundation Fellowship for As Built: Theory of Practice, a continuing biannual series of books published by Princeton Architectural Press on technical and material innovation in architecture. The first volume, *Details in Contemporary Architecture*, was published in 2006; the second volume, *Detail in Process*, in 2008. The third volume, *Detail Technology and Form*, was in 2012. Davids was the recipient of a Senior Fulbright Scholarship in 2012. Teaching consists of graduate and undergraduate design studios and seminars in urban design theory and construction details.

Nicholas de Monchaux, M.Arch.

Nicholas de Monchaux is Associate Professor of Architecture and Urban Design at the University of California, Berkeley. He is the author of *Spacesuit: Fashioning Apollo* (MIT Press, 2011), an architectural and urban history of the Apollo Spacesuit, winner of the Eugene Emme award from the American Astronautical Society and shortlisted for the Art Book Prize. His design work has been exhibited at the Biennial of the Americas, the Venice Architecture Biennale, SFMOMA, and the Museum of Contemporary Art in Chicago.

Elizabeth Deakin, J.D., S.M., S.B. (Emeritus)

Professor Deakin is interested in the interrelations among transportation, land use, and the environment. She has worked on the transportation elements of several design projects including the Hayward Area Downtown Plan and Communications Hill, San Jose, both of which won AIA awards, and the LUTRAQ (Land Use Transportation -Air Quality) project in Portland OR which won an APA award. She has worked on transportation-land use planning issues in the US, the EU, and in China, Mexico, Argentina, Ecuador, and India and has worked with government and university research groups on sustainable development policies in Sweden, the Netherlands, Denmark, Germany, and Australia. She currently is working with California officials on transportation-land use strategies to reduce greenhouse gases.

Harrison S. Fraker, Jr., M.F.A., F.A.I.A.

Harrison S. Fraker, Jr. is Professor and former Dean of the College of Environmental Design at the University of California, Berkeley. Educated as an architect and urban designer at Princeton and Cambridge Universities, he has pursued a career bridging innovative architecture education and award winning professional practice. He has helped implement new models of education and research which build strategic partnerships between the college and design professionals. He believes that environmental planning and design education has much to learn and much to contribute to new knowledge about the most critical environmental design challenges facing society, by considering both the pragmatic and the theoretical questions of social and environmental responsibility and the importance of process in the art of building.

Fraker has recently authored *The Hidden Potential of Sustainable Neighborhoods: Lessons From Low-Carbon Communities*, in which he discusses effective low-carbon designs that are both livable and sustainable.

Randolph T. Hester, Jr., M.L.A. (Emeritus)

Professor Hester is a landscape architect and sociologist interested in integrating planning and design decisions at the scales of neighborhood, city, and region so that both the needs of the poorest citizens and ecological resilience are met. His books include *Community Design Primer*, *Planning Neighborhood Space with People, The Meaning of Gardens,* and *Democratic Design in the Pacific Rim.* He teaches courses in citizen participation in city planning and sacred landscapes.

Kristina Hill, Ph.D.

Kristina Hill approaches urban design as an interaction between forms built by people and processes driven by physics and biology. Winds, tides, river flooding, animal migration, traffic patterns, and social history co-exist and interact with each other along the edge of the San Francisco Bay, and in other coastal cities. Kristina is fascinated by these interactions, and consults on urban systems as a member of design teams, using insights gained from her studies of how cities can integrate natural processes. Kristina specializes in infrastructure design as a driver of urbanization that adapts to changing environmental processes. She teaches a course on urban adaptation to sea level rise, along with graduate design studios.

Walter Hood, M.L.A., M. Arch.

Walter Hood is Professor in Landscape Architecture, has taught at the Graduate School of Design, Harvard University, and summer sessions in Urban Design in Urbino, Italy. He has lectured in the U.S. and abroad. His national award winning research project, 'Urban Diaries', was selected for the U.C. Art Museum Spring 1995 Urban Revisions Exhibit. He is also the author of the national award winning pamphlet *Jazz and Blues Landscapes*. He has had his own practice since 1981, involved with a wide variety of public and private projects.

Allan B. Jacobs, M.C.P., B. Arch. (Emeritus)

Professor Jacobs works primarily at the urban scale in large cities, and may be characterized as an urban designer and city planner. He is concerned with the design of the public realm--streets, spaces, parks--and with achieving private development that helps to achieve community aspirations. He has worked in many cities, perhaps most notably as the Director of San Francisco's Department of City Planning. He writes on city planning and urban design, notably on the uses of observation as a design and planning tool. His books include *Great Streets, Looking at Cities, Making City Planning Work*, and, with Elizabeth Macdonald and Yodan Rofe, *The Boulevard Book*.

Linda Jewell, M.L.A., B. Arch., F.A.S.L.A. (Emeritus)

Linda Jewell is a Professor of Landscape Architecture and Environmental Planning at UC Berkeley, a partner in the Berkeley firm of Freeman & Jewell and, until 2011, a consulting partner in the Raleigh N.C. firm, Reynolds & Jewell. Jewell has written more than 40 articles for Landscape Architecture magazine and other professional and academic design publications. Her design work and publications have won numerous National ASLA honor and merit awards, including the prestigious Presidential Award in Communications, the Bradford Williams Medal and the Jot Carpenter Teaching Medal. She has taught at North Carolina State University and the University of Pennsylvania as well as served as Chair of Landscape Architecture at both Harvard University and UC Berkeley. She is presently working on the book, *Gathering on the Ground: Experiencing Landscape in the American Outdoor Theater.*

John Lund Kriken, M. Arch., F.A.I.A.

An internationally known planner and city designer, Mr. Kriken founded the Planning and Urban Design Studio of Skidmore, Owings & Merrill's San Francisco office. He is known for his work on large-scale commissions designing large districts within cities, high-density inner cities, entirely new cities and plans for the conservation and development of open land. His Saigon South project for the expansion of Ho Chi Minh city won both an Urban Design Award from Progressive Architecture and a National Honor Award from the American Institute of Architects. Both his Shanghai and Hong Kong Waterfront plans won National Honor Awards from the AIA in the year 2000. Mr. Kriken received a Master of Architecture in Urban Design from Harvard University's Graduate School of Design and a Bachelor of Architecture from University of California Berkeley's College of Environmental Design. He has authored a number of articles and book chapters including "The Design for Arid Regions" for Gideon Golany's *Town Planning and Cultural and Climate Responsiveness* and the "Urban Design" chapter for the International City Managers Association and the American Planning Association's *The Practice of Local Government Planning*. He recently published *City Building: Nine Planning Principles for the Twenty-First Century*, a book with Philip Enquist and Richard Rapaport, and in 2013, it was republished in Chinese. In 2012, John earned an Award for Global Excellence from the international Urban Land Institute for Saigon South which is for the expansion of HCM City Vietnam for one million people. In 2013, John earned a National AIA Urban Design Award for an Experimental Agricultural Village near the City of Jiaxing,China.

Karl Kullmann, M.L.A., B.L.A.

Karl Kullmann is a landscape architect, urban designer and associate professor at the College of Environmental Design, University of California, Berkeley, where he teaches design studios in landscape architecture and urban design, and courses in landscape theory and digital modeling. Karl's scholarship and creative work explores the agency of the designed urban landscape. Karl has published widely on this subject through diverse lenses, including urban topography, green infrastructure, urban wastelands, public gardens,

urban decline, spatial orientation and disorientation, design modeling and visualization, mapping and datascaping. This research is also actively tested through design practice, which includes built urban landscape projects in China, Australia and Germany, and numerous design competition prizes and exhibitions.

Donlyn Lyndon, M.F.A., F.A.I.A. (Emeritus)

Donlyn Lyndon is Eva Li Professor of Architecture, emeritus and active in the Urban Places Design Group. He is a leading proponent of urban design based on a strong sense of place, and the balancing of new and contemporary design with the history, regional elements and landscape of a location. He was a founding editor of the journal *Places : Forum of Design for the Public Realm,* author of *The City Observed: Boston*, co-author of *The Place of Houses, Chambers for a Memory Palace* and *The Sea Ranch.* He was Coordinator of the Mayors Institute on City Design at UC Berkeley, and served on the Architectural Advisory Board for the US State Department, Formerly, Mr. Lyndon was professor and Head of the Department of Architecture at the Massachusetts Institute of Technology and the University of Oregon. He has designed numerous residential, and institutional projects: the best known works being Sea Ranch Condominiums in California, (now on the National Register of Historic Places) and New Pembroke Dormitories at Brown University. Urban design projects include planning and design of public spaces for the cities of Berkeley, Pasadena, Santa Cruz, and West Sacramento in California, and the cities of Amherst and Northampton in Massachusetts. As Chair of the Commons Landscape committee at The Sea Ranch he is leading the preparation of landscape management plans for its ten mile stretch of the Sonoma Coast.

Elizabeth Macdonald, Ph.D., M.C.P., M.L.A.

Professor Macdonald is trained in urban design, city planning, landscape architecture, and architecture. She is a registered architect and practices urban design as a partner in the firm of Jacobs Macdonald: Cityworks. Her research and professional practice focuses on urban public realm design, particularly streets, small public spaces, and waterfront promenades. Additional interests include the historical evolution of urban form, urban design theory, ecological responsibility, design for active living, and built form typology. Professional work has included streetscape planning and design projects for the cities of Abu Dhabi, Vancouver, Oakland, and San Francisco. She is author of *Pleasure Drives and Promenades: A History of Olmsted and Vaux's Brooklyn Parkways*, co-author of *The Boulevard Book: History, Evolution, Design of Multiway Boulevards* (with Allan B. Jacobs and Yodan Rofe), and co-editor of *The Urban Design Reader* (with Michael Larice).

Louise A. Mozingo, M.L.A.

Professor Mozingo received her Master in Landscape Architecture from University of California, Berkeley and undergraduate degrees in Biology and Art History from the College of William and Mary, Williamsburg,

Virginia. A former Associate and senior landscape architect for Sasaki Associates, Prof. Mozingo joined the department after a decade of professional practice, managing a range of master planning and design projects. Prof. Mozingo's research and creative work focuses on ecological design, landscape history, and social processes in public landscapes. Her particular concern is the planning and design of collective and public open spaces that produce both ecological and social sustainability, and thrive to support civil society in an increasingly multi-cultural world. Prof. Mozingo has been the recipient of Harvard University's Dumbarton Oaks Fellowship for Studies in Landscape Architecture, the Council of Educators in Landscape Architecture Award of Recognition for Excellence in Teaching, Writing, and Service, and the University of California, Berkeley Chancellor's Award of Recognition for University and Community Partnerships. Professor Mozingo's articles and reviews have appeared in *Places, Landscape Journal, Journal of the History of Gardens and Designed Landscapes, Landscape Architecture Magazine, Geographical Review,* and the *Journal of the Society of Architectural Historians*. She has contributed chapters to *Everyday America; Cultural Landscape Studies after J.B. Jackson* (2003) edited by Chris Wilson and Paul Groth and the forthcoming *Healing Natures* edited by Robert France. In 2013, Mozingo authored *Pastoral Captialism*, a book describing the evolution of postwar urbanism in the context of capital enterprise.

John Radke, Ph.D., M.A.

Professor Radke's research interests are in the design and development of analytical methods embedded in geographic information science (GIS). His interests include the development of metrics that assist scientists and design professionals in recognizing spatial structure and change in complex landscapes. These metrics advance our ability to classify and make sense of very large databases generated by sophisticated sensors that record and map spatial distributions of phenomena. Processing and characterizing the morphology of landscapes in these data rich environments aids urban designers and planners in their quest to construct and apply spatial interaction models to real world problems, such as: modeling the consequences of infrastructure failure in an urban context; assessing potential fire risk in the wild-land urban interface; assessing failure in highly erodible terrains; measuring and predicting landscape hazards; modeling the consequences of sea level rise and storm inundation on coastal cities; and our ability to respond and mitigate human disasters.

Daniel Solomon, M. Arch., F.A.I.A. (Emeritus)

Professor Solomon is an architect and urban designer whose principal interest lies in the reciprocity between building form and urban space. Much of his built work is housing and much of his urban design work consists of *regulatory* structures that address housing. He is the recipient of fifty design awards, including national urban design awards from the AIA and AID and four Progressive Architecture urban design citations. He is the author of the book *Rebuilding* and a co-founder of the Congress for New Urbanism.

Michael Southworth, Ph. D., M.C.P., B. Arch., F.A.I.A. (Professor of the Graduate School)

Professor Southworth is North American Editor for *The Journal of Urban Design*. His recent research projects and publications have focused on the walkable city, city design for urban wasting, and the evolving form of the American metropolis, particularly the urban edge. His book *Streets and the Shaping of Towns and Cities* (with Eran Ben -Joseph), as well as several journal articles, examine the role of street design standards and development patterns in creating successful neighborhoods and communities. Other work has included livability assessment; urban design to enhance the education and communication functions of cities, especially for children's needs; reuse and preservation plans for older cities, neighborhoods and buildings; design of urban open space networks; and research on large scale urban design theory and methods. He created the award-winning conceptual plans for the Lowell Urban National Cultural Park and the Boott Mill Cultural Center Community in Lowell, Massachusetts. His books (with Susan Southworth) include *Maps: A Visual Survey and Design Guide, The AIA Guide to Boston;* and *Ornamental Ironwork: An Illustrated Guide to Its History, Design, and Use in American Architecture*. He was editor and contributor to *Wasting Away* (a posthumous book by Kevin Lynch) and *City Sense and City Design* (with Tridib Banerjee).