

# **UNIT SELF STUDY**

**MASTER OF SCIENCE IN ARCHITECTURE  
DEGREE PROGRAM  
WITHIN THE DEPARTMENT OF ARCHITECTURE  
COLLEGE OF ARCHITECTURE AND URBAN PLANNING**

**AT THE UNIVERSITY OF WASHINGTON  
SEATTLE, WASHINGTON**

**Submitted by**

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## ***PART I: GENERAL INFORMATION***

### ***SECTION A. INTRODUCTION***

This self-study document examines the Master of Science (M.S.) in Architecture degree program within the Department of Architecture at the University of Washington. This degree program offers a two-year curriculum of advanced study beyond the first professional degree in architecture. The M.S. in Architecture Program was approved by the Higher Education Coordinating (HEC) Board of the State of Washington in July of 2001 as an umbrella degree with specific areas of research concentration. The initial research concentration was in Design Computing, with a second in History and Theory approved by the Graduate School of the University of Washington in May of 2006. Anticipated future concentrations are in Sustainable Design and Technologies and Community Design. Although this self-study includes some information on both approved research concentrations, there will not be any M.S. students in History and Theory until the autumn of 2007 and thus the only historical information is on the Design Computing concentration.

Coincident with the initiation of the M.S. degree in Architecture, the Department of Architecture created the Design Machine Group (DMG), a research group focused on the area of Design Computing. The DMG serves as a research studio for the M.S. students in the Design Computing track, but it also supports the research culture not only of those students, but of a larger body of students including undergraduates, graduates in the M.Arch. program, and graduates in other degree programs in the College of Architecture and Urban Planning (CAUP) and UW.

### ***SECTION B. BACKGROUND***

The Department of Architecture at the University of Washington was founded in 1914, the nineteenth such department in the United States and one of the first on the west coast. The Department has grown over the years so that today its undergraduate and graduate/professional programs typically enroll about 280 students. In addition the Department serves a large number of undergraduate non-majors who enroll in a variety of introductory courses in drawing, architectural history and the like. In recent surveys, the University of Washington Master of Architecture (M.Arch.) degree program was ranked in the top 15 to 20 out of approximately 116 such programs in all American universities, and in the top 10 such programs at public universities.

The Master of Architecture program remains the department's central offering. It is a professional program accredited by the National Architectural Accrediting Board, Inc. (NAAB), which prepares graduates for entry-level positions in professional architectural practice. The structure of the M.Arch. program is largely guided by the requirements to maintain accreditation by NAAB. Although some specialization is possible within the curriculum, this is limited by the need to provide professional architectural graduates a broadly based architectural education that prepares them for the wide range of opportunities in professional architectural practice.

The University of Washington also offers the undergraduate "pre-professional" B.A. with a major in Architectural Studies. Graduates from this program may go on to work in architectural firms, but the program is designed to offer students a broad liberal education while also preparing them for entry into graduate level professional architectural Master of Architecture programs such as the one offered at the University of Washington or at other schools.

### ***SECTION C. PROGRAM NEED***

Until recently it was thought that the architectural education that an architect received while earning his or her professional degree was a sufficient basis for an architectural career. However, in the last two decades, with the rapid growth of knowledge and the quickening pace of technological change, post-professional education in architecture has become increasingly common. Such education is developing in several directions. On the simplest level, the American Institute of Architects (AIA), the professional organization for architects in the United States, has adopted a program of continuing education which requires that every architect who wishes to remain a member in good standing earn continuing education credits every year.

At the same time schools of architecture have been developing post-professional education programs to meet the need for more advanced knowledge of architecture. Such programs serve a variety of audiences: those with professional degrees who seek advanced education to pursue careers in architectural teaching and/or research; practicing professionals at any stage of their careers seeking specialized knowledge in a particular area of focus (or mid-career professionals seeking additional education prior to making a significant career step); those with architectural degrees seeking to pursue careers in related fields such as design computing, software or graphics.

The proposal to establish an M.S. in Architecture was stimulated directly by the growing demand for post-professional education in architecture. This is believed to arise out of three factors. First, the architectural profession has grown increasingly sophisticated and architectural technology is predicted to advance even more rapidly in the future. Project design and delivery processes are growing more complex and require architectural professionals who have broadened and improved technical and managerial capabilities and applied research skills. Second, as the demands for the basic professional education have increased, the students ability to pursue research interests within the time-frame of a professional degree are limited. Faculty and student interest in research has in recent years increased significantly, particularly as a consequence of inter-disciplinary influences from peer units (such as digital arts, public health, comparative history, etc.) across the campus. Third, as expectations of architectural education increase, the minimum requirement to become a faculty member at an architectural school increasingly includes some post-professional education.

In addition, a post-professional graduate program in architecture makes the facilities of the University of Washington more accessible to place-bound practicing professionals who might otherwise be forced to leave the area to seek advanced education as part of their career development. Thus, the department's goals for the M.S. program include meeting the growing need for professionals with advanced education in architecture to address the increasing complexity of architectural knowledge and to offer the opportunity for focused study of specific issues in architecture (in contrast to the broad-based education required in the accredited professional degree program). The program addresses the increasing recognition that life-long learning is now part of every architectural career.

One of the most fundamental reasons for creating an M.S. program is to enhance the research culture of the Department of architecture, whose faculty are increasingly involved in advanced research. It will create interdisciplinary connections within the College of Architecture and Urban Planning and with various units in the University—including humanities disciplines in the College of Arts and Sciences and technical and professional schools like Computer Science and Engineering. Many students in the program will take coursework in other Departments and work on thesis projects that link architecture to other disciplines, and thus faculty members from other academic units may serve on their thesis committees. The program will also be a testing ground for the next

generation of architectural educators—particularly for those that use the M.S. degree as a prelude to pursuing a Ph.D. at the University of Washington or elsewhere.

#### **SECTION D. PROGRAM MISSION**

The Master of Science in Architecture program contributes to the mission of the University by providing academic training in specialized areas of architecture, by fostering research and by disseminating the results of such research to various sectors of the design professions and construction industry, to the academic community, and to the general public.

The overarching purpose of the program is to make high-quality graduate education available to individuals who already hold baccalaureate and/or professional degrees in architecture and related fields to broaden and improve their intellectual, professional, and technical capabilities. The M.S. program is focused on particular specializations, allowing the pursuit of advanced knowledge. The more specific objectives of the program include:

- · Create an opportunity for professionals to return to school for advanced or specialized education.
- · Serve society by conducting focused research in architecture and related fields that can help the architectural profession and building industry meet the challenges of the next century.
- · Enhance and broaden the intellectual and professional knowledge and skills of those who may pursue careers in architectural education.
- · Make the University of Washington facilities accessible to the large population of practicing design professionals in the region who will pursue advanced education while continuing to work on a part-time basis in local firms.
- · Provide a venue for design professionals to develop their research skills and produce a significant project that can prepare them for Ph.D. studies.
- · Create interdisciplinary links within the College and across the campus as the frontier of knowledge and research in the academy.

The Department of Architecture will also realize additional objectives as follows: (i) participate in the state and University's efforts to make higher education more accessible to citizens in Washington State; (ii) participate in the development of programs to serve the growing need for continuing education in the profession of architecture; (iii) add to the capabilities of the Department of Architecture in research to contribute to the body of architectural knowledge and enhance the reputation of the Department and University; (iv) increase the number of qualified graduate students who can serve as Graduate Student Assistants and Teaching Assistants to contribute to the educational programs in the B.A. and M.Arch. programs (and thereby take advantage of the knowledge of those with current professional experience); (v) increase opportunities to attract grant funding to support increased research within the Department.

Graduates of the Master of Science in Architecture program in Design Computing will have increased skill and knowledge in specific technical areas that will enhance their ability to contribute to professional practice, allowing them to seek higher level positions or pursue professional practice in specialized areas in architecture and/or related design and construction disciplines. The new stream in History & Theory will give students the opportunity to develop a deeper foundation in theory for practice, and will also make graduates more competitive for positions in academia.

**SECTION E. PROGRAM STRUCTURE**

The Master of Science is a nationally recognized post-professional degree in architecture, and is commonly offered by Colleges and Universities that have substantial research programs beyond the professional degree. The M.S. in Architecture Program at the University of Washington is directly modeled on the programs at other prominent research institutions, such as the University of Michigan, Ann Arbor, the University of California at Berkeley, and the Massachusetts Institute of Technology, Cambridge. The programs at these institutions offer several areas of research specialization under the general degree of a Master of Science in Architecture.

The program is structured for individuals who may not have a substantial amount of experience in research but are interested in pursuing an advanced research project. The 2 year, 45 credit program provides students with the necessary background to successfully complete a Master's thesis on a topic of their choice. The core of the program for each student is an individually adapted and highly specialized curriculum of advanced study tied to established and new areas of faculty research. The first year is comprised of a sequence of three required courses that give students a shared intellectual foundation, introduce them to common approaches to research within the discipline, and then provide a mentored research opportunity to develop an advanced research topic prior to undertaking their independent thesis project. Students also take a variety of elective courses and seminars on topics of interest to allow them to strengthen their background and focus their studies in a specific area of research. The second year of the program is largely comprised of a thesis preparation course and a Master's thesis.

**1. Course Requirements**

In accordance with the guidelines of the HEC Board of the State of Washington, each research concentration in this program must have over half of its credits from a common core curriculum. In order to create a core curriculum for a series of MS streams whose research foci are different, the program has a series of parallel courses in each research concentration that are thematically linked to common subject areas. These core requirements for each research concentration are as follows:

<b>General Core Requirements</b>	<b>Design Computing Concentration</b>	<b>History and Theory Concentration</b>	<b>Credits</b>
Intellectual traditions	Arch 587: Theory of Design Computing	Arch 560: Graduate Seminar in Architectural Theory	3
Research methods	Arch 599: Research Practice	BE 552: Theories of Knowledge and the Built Environment	3
Research practicum	Arch 597: Research Practicum	Arch 597: Research Practicum	5
Thesis proposal	Arch 599: Thesis Proposal	Arch 599: Thesis Proposal	3
Master's thesis	Arch 700: Masters Thesis	Arch 700: Masters Thesis	9
<b>Sub-total</b>			<b>25</b>
Course work in area of emphasis	Design computing courses and seminars or other relevant courses (400 level and above)	History and theory courses and seminars or other relevant courses (400 level and above)	22
<b>Total</b>			<b>45</b>

The remaining courses for each research concentration will be drawn from discipline specific courses and seminars within the Department of Architecture, or other relevant courses offered in the College or in other Departments in the University (400 level or above). The selection of these courses is determined in consultation with a faculty advisor in

order to fit the individual student's area of specialization. The following two tables list eligible course offerings in Design Computing and History and Theory within the Department of Architecture:

<b>Additional Design Computing Courses</b>		<b>Credits</b>
Arch 478	CAD & Working Drawings	3
Arch 481	3D Modeling and Rendering	3
Arch 482	Web Weaving	3
Arch 483	Design of Virtual Environments	3
Arch 484	Design Computing Seminar	3
Arch 485	Digital Craft: Advanced Projects	3
Arch 486	Computer Graphics Programming	3
Arch 498	Computational Lighting Design	3
Arch 498	Simulation-based Design	3

<b>Additional History/Theory Courses</b>		<b>Credits</b>
Arch 441	Visions of the Japanese House	3
Arch 442	Africa and Middle East Seminar	3
Arch 445	South Asian Architecture I	3
Arch 446	South Asian Architecture II	3
Arch 450	Modern Architecture and the Decorative Arts	3
Arch 451	Traditional Chinese Architecture and Gardens	3
Arch 452	History of Architecture in Seattle and Environs	3
Arch 453	Japanese Architecture	3
Arch 454	Greek Architecture	3
Arch 455	Special Studies in Gothic Art and Architecture	3
Arch 456	Nineteenth-Century Architecture	3
Arch 457	Twentieth-Century Architecture	3
Arch 459	Architecture Since 1945	3
Arch 460	Design Theory and Analysis	3
Arch 461	Recent Developments in Architectural Theory	3
Arch 462	Spatial Composition in Architecture	3
Arch 463	Theories of Representation	3
Arch 488	American Architecture	3
Arch 529	Seminar in American Architecture	5
Arch 540	Evolution and Aesthetics	3
Arch 551	Scandinavian Architecture of the Nineteenth and Twentieth Centuries	3
Arch 553	Historic Preservation of Architecture, USA	3
Arch 554	Special Studies in Modern Architecture	3
Arch 556	The Arts & Crafts Movement and American Architecture	3
Arch 558	Seminar in Twentieth-Century Architecture	3/5
Arch 559	American Utilitarian Architecture	3
Arch 561	Urban Design Theory	3

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Arch 562	Regionalism	3
Arch 563	Graduate Seminar in Architectural and Cultural Theory	3
Arch 590	Urban and Preservation Issues in Design	3
Arch 591	Architecture in the Landscape	3

## **SECTION F. RESEARCH CONCENTRATIONS**

### **1. Design Computing**

Students in the Design Computing research concentration are involved in hands-on, active exploration of design, computing, and the built environment. Specific areas of emphasis include design methods, computational analysis, building performance simulation, cognition and computation, design collaborations, human-computer interaction in design, visual architecture, physical computing, and computer graphics. Students in this program work in the Design Machine Group (DMG), a collaborative research studio environment aimed at fostering and developing ideas that will shape the future of design and information technology.

This research group acknowledges the fact that information technologies are revolutionizing architecture and urban design, transforming teaching and practice, and challenging our understanding of space, place, and society. Buildings are changing too—through active controls, smart materials, and ubiquitous computing. As people begin to inhabit virtual on-line places, we are rethinking the very meaning of community. The DMG is exploring how these changes will affect design, how designers can apply these changes, and how both will influence the human inhabitation of space.

### **2. History and Theory**

Students in the History and Theory concentration will pursue advanced research in the history and theory of architecture through a variety of historical and critical lenses. Although general faculty interests are in nineteenth and twentieth century architecture, the program is broadly conceived to encompass the architectural, cultural, and political forces that have shaped the continuing discourse of modernity in architecture, including all of its contemporary manifestations.

Particular areas of faculty research include the many forms of modernity in architecture and urbanism in the traditional theaters of the West as well as the rest of the world. Subsets of these interests are: modern architecture and the decorative arts, the history and theory of preservation, architectural representation, the arts and crafts movement, regional and global modernity, and vernacular and domestic architecture. Examples of specific locations of interest include Pacific Northwest regionalism as well as colonial and postcolonial architecture in South Asia, Japan, Africa and the Middle East.

The program faculty share a dedication to providing a rigorous curriculum of historical and critical inquiry. Students take a combination of required coursework and elective seminars to build their research skills and prepare them to do an advanced research project. Throughout this process they work closely with their faculty advisors to select the courses that best suit their research interests and to prepare a clear and focused Master's thesis topic.



## **PART II SELF-STUDY**

### **SECTION A: GENERAL SELF EXAMINATION**

While the Department's professionally-oriented B.A. and M.Arch are its core focus, the M.S. is designed to offer an advanced research opportunity for a much smaller population of students. The M.S. program, however, strengthens the professional and pre-professional degrees by involving students from those programs in the research activities. Thus, while the number of students matriculated in the M.S. program is quite small, the impact of the program on the broader educational activities of the department is much larger.

The M. S. in Architecture has been conceived as a multi-stream degree with the different tracks representing different faculty strengths in the Department and responding to different needs in the community. The initial track, which has been operating since 2001, is in the area of Design Computing. In the Spring of 2006 permission was granted to launch a second stream in the area of History & Theory. Thus, where this document is retrospective, it describes the Design Computing stream, but where it is prospective, it assumes the existence of these two streams and anticipates the eventual addition of one or two more.

The Program is still in its infancy. While the Design Computing stream has an established track record, it is now undergoing substantial revision as faculty is being replaced. The History Theory stream has yet to accept its first student. The critical need at this juncture is to establish a direction for the program that can capitalize on faculty strengths such that the program develops a distinctive national identity.

#### ***Strengths***

The Design Machine Group and the M.S. track in Design Computing have been very successful in terms of bringing a research culture to the Department of Architecture. Design is one of the central cognitive task of architects, while computing technology has revolutionized the production processes of the profession. The Design Computing M.S. track enhances the research activities of the department through a focused exploration of issues related to design and computation. This effort has been quite successful, both in terms of MS student work and related activities in the Master of Architecture (M.Arch) program and the CAUP PhD in the Built Environment.

The focused attention that students experience within the M.S. stream is exceptional. One-on-one mentoring by program faculty is a regular component of the second year of study, and often a part of the first. Access to tailored assistance is generally available. Reflecting an appreciation for these special qualities, the DMG was chosen to represent the Tools for Transformation program in a report to the Regents, it was spotlighted on the Seattle-area evening news, and featured in the University's "Northwest Science and Technology" magazine.

The core faculty group that supports the M.S. track in Design Computing has been intentionally selected to cover a broad set of interests at the intersection of design and computation. The faculty bring a strong theoretical background and research experience in both software development and practical application within a wide range of topics, including building performance simulation, design collaboration, enabling technologies (programming, web, etc.), computer graphics, and (soon) digital fabrication.

The History Theory stream has the advantage that it already has a large core of qualified faculty that it can draw from. Moreover, the history theory faculty of the department has a very diverse range of interests that cover not only the core of Western civilization, but also much of the non-western world. Our coverage is among the most wide ranging available in any department of architecture nationally. Additionally, the stream has a well defined focus, which will help give it a distinct identity.

### ***Weaknesses***

While the program has a number of substantial strengths, there are some weaknesses as well. In brief, the M.S. in Design Computing is a small young program related to an emerging field that is still struggling to define itself. It is connected to a discipline that does not have a broad history of traditional research or advanced study. We live in an era of declining federal funding. It suffered a setback from the coincident departure of two core faculty members in 2004.

The most significant transient challenge was the departure of two-thirds of the core faculty team. Very little notice was given by the departing faculty, who left over the summer of 2004. The remaining faculty member of the original team had to scramble to maintain continuity for matriculated students, advise on thesis projects whose mentors had left, teach additional courses on short notice, and at the same time, lead searches for replacement faculty. The departures and the decision to initiate another stream within the M.S. degree have also presented us with opportunity to perform a “course correction” through adjustments to the research directions, course content, etc. Though we are not yet finished and the last member of the new core team will not be in place until next year, we are pursuing this correction as a moment of opportunity.

A more intransigent, cultural or institutional problem has to do with the nature of the Master of Science itself. The comparatively short duration of a Master of Science degree (in comparison to a PhD degree) presents some challenges to a research-oriented program, as post-professional students of need to acquire substantial, sometimes technically complex, background knowledge, develop research skills, establish a personal research agenda, perform background research, and write their thesis—all in five or six quarters. Not surprisingly, students tend to identify thesis projects based primarily on personal interest. While this is good for the student, it is difficult for the faculty to “tile” these projects together in such a way as to produce broader progress or deeper expertise within the group.

These difficulties are compounded by the research funding environment in which we work. While construction constitutes a significant portion of the nations GDP, there is a chronic lack of funded research in architecture in general. On top of this, the interdisciplinary character of much design computing research, which pits architecture faculty against more narrowly focused disciplines (e.g., computer science), means that developing long-term research agendas is difficult. While there is still some funding to be found for Design Computing, the toughest challenge of the new stream in History and Theory is going to be to find funding for its students.

### ***Governance***

The three permanent faculty members are responsible for most of the courses in the MS.design computing track. Working together with administrators in the department to achieve optimal planning, the three faculty have constituted the executive committee that has made most academic decisions regarding admissions, course scheduling, etc. They have coordinated and orchestrated their work within annual, quarterly, and weekly timeframes through frequent face-to-face discussions. A half-time staff person is available to co-ordinate the Program.

As the History & Theory stream is brought on line and additional tracks are added to the degree, it will be necessary to develop a more formal administrative structure, modeled on the M.Arch..

### ***Mentoring***

Mentoring of junior faculty is a priority in the department of Architecture. In addition to their mandated meetings with the Chair of the department, they receive mentoring both from their sub-discipline colleague (a faculty member with 25 years experience at the UW) and from the chair of the departmental Tenure, Promotion & Merit Review (TPMR) committee.

The design computing students have enjoyed a dedicated space where informal structures of mentoring between senior and junior students have functioned very effectively. In addition, the M. S. Program co-ordinator has played the role of guiding students through the formal requirements of the program.

**SECTION B: TEACHING**

Teaching is the primary focus of the majority of faculty in the Department of Architecture. Typical full-time teaching loads consist of five courses per academic year, a number that is sometimes reduced in cases of large courses or substantial administrative duties. In addition, in some contrast to the rest of the university, the typical lecture course in the department is three credit-hours rather than five. Technology-linked courses such as those that form the body of the M.S. stream in design computing are usually limited in carrying-capacity due to their hands-on approach and limited lab space. Nonetheless, these courses are always open to all CAUP majors, as well as M.Arch. and M.S. students, and often open to students from other departments.

Students in the M.S. program generally receive intense one-to-one mentoring and guidance from faculty as part of their education. Some of this is due to small class size, some to the desire to inculcate appropriate attitudes about research and scholarship. Thesis student advising and mentoring and independent study engagement with faculty is common.

In the past few years, between one sabbatical leave, two departures and ongoing searches, there has been little “typical” teaching pattern. However, there is a canonical “typical load,” as mentioned above, and represented in the following table.

Instructor	Typical course load	Typical CH	Typical SCH
Johnson	5	15	230
Inanici	5	15	160
(vacant)	5	15	150
Stevens	4	12	165
Hudacek	1	4	100
Wright	1	4	100
Fleming	1	3	60
Ashkenazy	1	3	60
Dalton	1	3	30

**Notes:**

1. The “typical course load” does not include independent study courses (Arch 499 &600), thesis prep (Arch 599), or thesis. However, these have been included in the SCH estimate.

By departmental policy, all Department of Architecture courses are reviewed using the UW Office of Educational Assessment forms. At the same time, it is common for core faculty to meet and perform informal “post mortems” on their courses, identifying strengths and weaknesses in any given course offering and looking ahead to the next offering. Changes to the sequencing, tone and performance expectations of courses have been made as a consequence of these assessments.

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### ***SECTION C: RESEARCH AND PRODUCTIVITY***

The launch of the department's Master of Science degree was part of a multi-pronged effort within the Department of Architecture to enhance the visibility and vitality of traditional scholarship and research pursuits within the department while simultaneously bringing computing into the core of the M.Arch. program through greater integration with (design studio). The area of digital media and design computing was an ideal subdiscipline on which to focus in this regard, as digital media are increasingly critical tools for design studio. A "Tools for Transformation" grant was sought, and awarded, to create the network infrastructure to support "routinized" computer use. At the same time, the Design Machine Group was formed to establish a critical stance regarding digital tools and to "invent the future". This research group is central to the MS.dc research culture, but is open to graduate and undergraduate participation by students from any program. Since 2001, when the MS was started, the members of the Design Machine Group, faculty and students, have produced roughly 40 research papers, published in peer-reviewed conference proceedings (common in this discipline) and journals nationally and internationally. As further measures of their research success, Professor Johnson was awarded the 2002 ACADIA Award of Excellence in Research, and Professor Inanici has just been awarded a Nuckolls Fund for Lighting Education Grant to develop a course in Computational Lighting Design.

As a sub-discipline of Architecture, Design Computing covers a very broad range of topics. We delineate three principle generative concerns: (1) hardware and software computational technologies; (2) design as a social and cognitive activity; and (3) the built environment as both a product of design and a frame for design activity. Pairwise combinations of these three concerns produce a constellation of relevant topics. Some of these are: building-system performance prediction (simulation, visualization, etc.); human-computer interaction issues around design activity (sketching, communicating, reviewing, virtual environments, etc.); ubiquitous computing opportunities and issues (sensors and displays, smart environments, changes to traditional architecture, etc.); and information representation/management questions in design process (CAD & rendering, issues of emergence, propagation, problem solving, collaboration, etc.). Most of these are or can be addressed in interdisciplinary ways, one of the reasons that we seek connections and collaboration across many departments on campus.

### ***SECTION D: RELATIONSHIP WITH OTHER UNITS***

The MS program and the Design Machine Group (DMG) in particular have maintained a wide array of contacts with other departments on campus, as indicated by the departments from which speakers have been drawn for the Arch 484 Seminar, and the fact that members of the DMG have included students from the following departments (Technical Communications, Computer Science & Engineering, Landscape Architecture, Architecture, and Industrial Engineering).

Research proposals have been developed around connections with Computer Science & Engineering and the Information School. Ongoing discussion is occurring with faculty in Engineering as well as faculty in our own College (in Construction Management).

### ***SECTION E: DIVERSITY***

The M.S. has been fortunate in having a diverse faculty and student population. The permanent faculty group of three includes one woman, as does the cadre of part-time faculty. The DMG student population includes students from many ethnic and cultural backgrounds, as does the matriculated M.S. student population.

### **SECTION F: DEGREE PROGRAMS**

As previously indicated, the purpose of the M.S. in Architecture degree is to (1) enable students to pursue deep expertise in an area of study that they might not be able to pursue within the context of a professional degree stream, (2) provide a “hinge” opportunity for students to re-orient from a professional degree track towards a more academic degree, and (3) establish a culture of research and investigation visible to students in the existing professional degree. Thus, inasmuch as students are pursuing deeper expertise, the M.S. links backwards to the B.A. and M.Arch. degrees, but inasmuch as students may use their M.S. studies as an opportunity to take a more academic direction, it links forward to our own, or other Ph.D. programs. To some extent, these roles remain possibilities rather than realities, because they rely on cultural adjustments within the academic architecture community overall, and at the UW specifically, adjustments that embrace the M.S. as a supplemental study opportunity that can build on M.Arch. and pre-professional B.A. degrees.

These objectives are distinct from those of institutions that promote themselves around short-term skill acquisition. They are more akin to those of a Ph.D. institution such as U.C. Berkeley, Carnegie Mellon, Georgia Tech, and the University of Michigan. While there is probably a market for post-graduate technical education in information and communication technology (ICT) within the field of architecture, this is not a channel that we have developed to date. It may be a ripe opportunity for an evening or distance learning program in the future.

### **SECTION G: GRADUATE STUDENTS**

The M.S. program has not grown as quickly as was expected in our initial estimates. Some of this is undoubtedly due to the disruption caused by the faculty departures in 2004 (we had seven applicants for Autumn '03 admission, but only two [check!] for autumn '04). Additional resources need to be directed towards active recruiting of well-qualified students and reasserting our place in planning of students. Unfortunately, the process of conducting searches and teaching all necessary classes while understaffed has stretched time resources and distracted attention from this work.

Students in the Design Computing stream receive intense mentoring, often beginning prior to admission. Each student has regular advising sessions with the Graduate Program Advisor and receives personal input as needed. These sessions also provide opportunity to assess overall progress and completion expectations for the student. In regular “lab lunch” meetings, students are exposed to current formal and informal presentations of research. They are expected to join in discussion of research directions, gradually working towards written and verbal presentation of their work to a peer audience. Presentations by second-year students help demonstrate expectations and goals, as well as success, to the younger students.

We make regular efforts, via the lab email list, to apprise students of conference publication opportunities, job announcements, etc. so that they are aware of and actively considering their future options in light of these opportunities. To further encourage students, the program provides students with travel support to attend a related conference of their choice, with additional support available if they are presenting a paper.

In the spirit of developing a truly collaborative research community, students were heavily and significantly involved in the two recent faculty search efforts, encouraged to join the lab's online presence system, and invited to lab pot-luck dinners. They are also encouraged to bring friends and acquaintances to join in the lab-lunch research colloquia, demonstration nights, etc. Graduates are encouraged to stay in touch, return for social events, etc.

**SECTION H: GRID**

Degrees Granted, by Year

Year (total)	2002-2003 (0)	2003-2004 (4)	2004-2005 (2)	2005-2006 (0)	2006-2007 (4 est)
Master's degrees granted		Kwon Oh Huang Mohammadi	Ziraknejad Lee		Chen Locsin Homayouni Shah

**SECTION I. Plans to improve the quality and effectiveness of the program**

There are various ways in which we might adjust the core of the Design Computing stream, though it remains a relatively rare and powerful concept. There is an obvious need to complete and then digest the recent personnel changes as well as assimilate the changes related to the added track in History & Theory.

In both of the recent hires, we are moving to strengthen the connections between the constellation of M.S. interests and those of the M.Arch. program, building greater synergy between the two degrees by demonstrating their shared interests and overlaps rather than their differences.

Another idea, arising out of the two recent searches, is to pursue funding to establish a visiting professorship for young faculty (non-tenure track) in areas related to Design Computing. While there is significant industry interest in individuals with skills and knowledge in ICT, it remains to be seen if such interest can be assembled behind such an idea.

In the short term, the departmental web site, which has not presented the M.S. program and the research group well, is undergoing revision. We expect that the new site will serve our recruitment and outreach objectives much better than the previous one. Additional changes to the existing DMG web site (separate from the departmental site) will freshen and update it as well.

**PART III - Appendices**

**Appendix A: Graduate Student Statistical Summary (5 Year Data--life of program)**

<b>Autumn Quarter Enrollment</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
<b>Enrollment History</b>					
Total	5	7	3	2	5
Full-Time	5	7	2	2	3
Part-Time	0	0	0	0	0
Male	3	4	2	1	1
Female	2	3	1	1	2
International	3	3	2	1	2
Wash. Resident	1	1	1	2	1
Non-Resident	4	1	1	0	2
New Student Enrollment	5	2	2	0	3
Continuing	n/a	5	1	2	2
<b>Annual Applications (Sum-Spr qtrs)</b>					
Autumn Qtr Applications	5	7	4	2	2
Autumn Qtr Denials	0	1	0	0	0
Autumn Qtr Offers	5	6	4	2	2
<b>Autumn Qtr Percentages</b>					
% Denied (of Applications)					
% Offers (of Applications)					
% New Enrollees (of Applications)					
% New Enrollees (of Offers)					
<b>Autumn Minority Admissions</b>					
Applications	0	2	0	0	0
Denials	0	0	0	0	0
Offers	0	2	0	0	0
<b>Autumn International Admissions</b>					
Applications	2	3	3	2	2
Denials	0	0	0	0	0
Offers	2	3	3	2	2
<b>Applicant Average GPA</b>					
Denied	0	0	0	0	0
Accepted But Not Enrolled	0	3.68	3.59	3.8	3.57
Accepted and Enrolled	3.5	3.3	3.02	3.52	3.8
<b>Applicant Average GRE Scores</b>					
Verbal Score	610	498	510	585	550
Quantitative Score	790	670	787	610	555
Analytical Score	470	540	4.0	4.5	4.7
<b>Accepted But Not Enrolled</b>					
Verbal Score	0	440	566	650	550
Quantitative Score	0	730	786	580	550
Analytical Score	0	550	4.5	4.5	4.4
<b>Accepted and Enrolled</b>					
Verbal Score	610	580	370	520	650
Quantitative Score	790	570	791	640	580
Analytical Score	470	520	2.5	4.5	4.5
<b>Annual Degrees Awarded (Sum-Spr qtrs)</b>					
Masters:	0	1	4	1	0
Doctoral:	0	0	0	0	0
Ph.D. Candidates	0	0	0	0	0
<b>Autumn Qtr Financial Support</b>					
Teaching Assistants					
Research Assistants					
Fellowships					
Traineeships					

**Appendix B: Academic Unit Profile**

This review is focused on the MS in Architecture degree, not the entire department of Architecture and its much larger M.Arch and BA degree streams. The Department of Architecture has an overall budget of approximately \$2 million, most for instructional support. The MS curriculum consists mostly of content that is available within the MArch degree, so it adds little to the Department's instructional budget. In addition, the number of MS students enrolled is not large enough to require additional sections. The exceptions consist of the few courses that are unique to the MS program -- Research Practicum, Thesis Prep, and Thesis. When the MS degree was authorized, \$48k in additional state funds were provided for administration and related services. This budget supports approx 0.5FTE of staff, and occasional part time student work in support of the degree. Additional funds are generated by an instructional fee for technology which is charged to MS students in the design computing track and used to support technology purchases in the DMG.



**Appendix C: Special Pathways Options, Certificates within the Degree**

The MS track in Design Computing does not, itself, have sub-tracks, though there is overlap between this degree program and the M.Arch. "Certificate in Design Computing."

**Appendix D: List of faculty by rank; include list of dissertation committees chaired for past five years**

As indicated in the narrative above, two of our faculty departed over the summer of 2004, vacating Full and Associate professor positions. Searches have been conducted in each of the two academic years since then to rebuild the faculty in this this area of study. The following list reflects the current (since 2004) staffing. More detailed curriculum vitae follow.

While the MS program does not involve PhD students directly (thus, no dissertation committees were chaired by any faculty prior to 2005), the DMG does include students from the CAUP PhD in the Built Environment Computation stream.

	<b><i>Design Computing</i></b>	<b><i>History &amp; Theory</i></b>
Full Professors	<i>(none)</i>	<i>Meredith Clausen</i>
		<i>Jeffrey Ochsner</i>
Associate Professor	<i>Brian Johnson</i>	<i>Alex Anderson</i>
		<i>Trina Deines</i>
		<i>Brian McLaren</i>
		<i>Vikram Prakash</i>
Assistant Professor	<i>Mehlika Inanici</i>	<i>Nicole Huber</i>
	<i>(vacant position)</i>	<i>Louisa Iarocci</i>
		<i>Kathryn Merlino</i>
		<i>Ken T. Oshima</i>
Lecturers	<i>Dave Hudacek</i>	<i>Jennifer Dee</i>
	<i>Ron Wright</i>	
	<i>Jamie Flemming</i>	
	<i>Boaz Ashkenazy</i>	
	<i>Anne Stevens</i>	
	<i>Benjamin Dalton</i>	
	<i>Ray Freeman, III</i>	
Affiliate Assistant Professor		<i>David Strauss</i>

**Appendix E: Placement of graduates, last 3 years (includes data on placements outside academia)**

***MS Students***

Doo Young Kwon	Entered private-sector employment.
Yeon Joo Oh	Entered PhD program, Carnegie Mellon University
Chen-je Huang	Entered PhD program, eth-Zürich
Golnaz Mohammadi	Entered private-sector employment (Mithun Architecture)
Babak Ziraknejad	Entered private-sector employment.
Eun Soo Lee	Continued research association with the DMG for 12 months, now in private sector (Samsung)

***M.Arch. Students***

Because the MS degree and the DMG also engage and are intertwined with M.Arch. students, we list here several M.Arch. students that we think of as “ours”.

Markus Eng	Entered private-sector employment, CAD Manager for NBBJ Architects
Mike Weller	Entered PhD program, Carnegie Mellon University
Ken Camarata	Entered PhD program, University of Washington

**Appendix F: Academic Unit's mission statement**

The purpose of the Master of Science in Architecture program at the University of Washington is to make high-quality graduate education available to architecture, interiors, construction, and related professionals who already hold baccalaureate and/or professional degrees in architecture and related fields such as interiors, landscape architecture and construction to broaden and improve their professional, technical and/or managerial capabilities. The program will focus on particular specializations, allowing the pursuit of advanced knowledge in contrast to the general requirements of the accredited professional degree program. Other objectives of the proposed program include:

- Create an opportunity for professionals to return to school for advanced or specialized education;
- Serve society by conducting focused research in architecture and related fields that can help the architectural profession and building industry meet the challenges of the next century;
- Enhance and broaden the professional knowledge and skills of those who may seek to pursue careers in architectural education;
- Make the University of Washington facilities accessible to the large population of practicing design professionals in the region who will pursue advanced education while continuing to work on a part-time basis in local firms.

The Department of Architecture will also realize additional objectives as follows: (i) participate in the state and University's efforts to make higher education more accessible to citizens in Washington State; (ii) participate in the development of programs to serve the growing need for continuing education in the profession of architecture; (iii) add to the capabilities of the Department of Architecture in research to contribute to the body of architectural knowledge and enhance the reputation of the Department and University; (iv) increase the number of qualified graduate students who can serve as Graduate Student Assistants and Teaching Assistants to contribute to the educational programs in the B.A. and M.Arch. programs (and thereby take advantage of the knowledge of those with current professional experience); (v) increase opportunities to attract grant funding to support increased research within the Department.

Graduates of the Master of Science in Architecture program in Design Computing will have increased skill and knowledge in specific technical areas that will enhance their ability to contribute to professional practice, allowing them to seek higher level positions or pursue professional practice in specialized areas in architecture and/or related design and construction disciplines. The new stream in History & Theory will give students the opportunity to develop a deeper foundation in theory for practice, and will also make graduates more competitive for positions in academia.

**Appendix G: Abbreviated Faculty Curriculum Vitae**

The Master of Science in Architecture is a small degree program within the Department of Architecture. Rather than include all the faculty from the Department, most of whom have no direct connection with the M.S. program, we are listing here only those faculty who teach courses which are required for the degree or which satisfy degree selectives.

In addition, we have divided the listing into those faculty involved in the Design Computing track and those who would be involved in the History & Theory track.

***Design Computing:***

Johnson, Inanici, (vacant), Stevens, Ashkenazy, Fleming, Hudacek, Dalton, Freeman, Wright.

***History & Theory:***

Clausen, Ochsner, Anderson, Deines, McLaren, Prakash, Huber, Iarocci, Merlino, Oshima, Dee and Strauss.

**BRIAN R JOHNSON**  
**Associate Professor, Dept of Architecture, (1980-p)**

<b>Degrees</b>	Master of Architecture, University of Washington, 1981 Bachelor of Science ( <i>summa cum laude</i> ), Physics and Mathematics, University of Puget Sound, 1977
<b>Teaching Responsibilities (2001-2006)</b>	Arch 380: Computers in Architecture Arch 481: Computer Graphics Applications Arch 482: Web Weaving Arch 484: Design Computing Seminar Arch 485: Digital Craft: Advanced Projects Arch 486: Computer Graphics Programming Arch 478: CAD & Working Drawings Arch 587: Theory of Design Computing Arch 597: Research Practicum
<b>Academic Experience</b>	Associate Professor (2002-present), UW Seattle Assistant Professor (1998-2002), UW Seattle Lecturer (1981-1998), UW Seattle
<b>Main Areas of Research &amp; Scholarship</b>	Computer applications in support of architectural education and practice: including CAD systems, simulation, 3D modeling and rendering, & the world wide web; especially issues of collaboration, user interface, & pedagogy.
<b>Selected Recent Publications</b>	"Context Aware Paper-Based Review Instrument: A Tangible User Interface for Architecture Design Review", E. Lee, S. Hong, & B. Johnson, in <u>ACADIA 2006: Synthetic Landscapes</u> , G. Luhan, P. Anzalone, M. Cabrinha, & C. Clarke (eds.), Louisville, Kentucky, pp 317-327. "Requirements for an Effective Distributed Design Review", W. Jabi, B. Johnson & G. Goldman, in <u>ACADIA 2003: Connecting—Crossroads of Digital Discourse</u> , K. Klinger (ed.), ACADIA 2003, Ball State University, Muncie, Indiana, ISBN 1-8880250-12-8, pp 99-105. "Virtuality and Place", B. Johnson, in <u>Thresholds: Design, Research Education and Practice, in the Space Between the Physical and the Virtual</u> , G. Proctor (ed.), ACADIA 2002, October 24-27, 2002, California State Polytechnic University, Pomona, California, ISBN 1-880250-11-X, pp 79-86. "Navigational Blocks:Tangible Navigation of Digital Information", K. Camarata, E. Do, M. Gross, B. Johnson, in <u>ACM Conference on Human Factors (SIGCHI)</u> , ACM Press, pp. 751-752. Book Review: "Architecture in the Digital Age," Branko Kolarevic (ed.), for the <i>IJAC - International Journal of Architectural Computing</i> , vol 2. (2003) "Compadres: Lightweight support for distributed Workgroups," B. Johnson, in <u>Computer Support for Collaborative Learning: Foundations for a CSCL Community</u> , Gerry Stahl (ed.), January 7-11, 2002, The University of Colorado at Boulder, Boulder Colorado, ISBN: 0-7923-7023-6, pp 507-508. "Unfocused Interaction in Distributed Workgroups: Establishing group presence in a web-based environment," B. Johnson in <u>Computer Aided Architectural Design Futures 2001</u> , Bauke de Vries, Jos van Leeuwen, and Henri Achten (eds.), proceedings of the 9 <sup>th</sup> international conference, July 8-11, 2001, the Technical University of Eindhoven, The Netherlands, Kluwer Academic Publishers, ISBN: 0-7923-7023-6, pp 401-414. "Between Friends: Support of workgroup communications," B. Johnson, in <u>Proceedings of ACADIA 2000</u> , M. Clayton and G. Vasquez (eds.), Washington, D.C., October, 2000, pp 41-50. "An experiment in design collaboration", B. Kolarevic, G. Schmitt, U. Hirschberg, D. Kurmann & B. Johnson, in <i>Automation in Construction</i> , vol 9, no 1, pp 73-81. Special issue on ACADIA'95, <i>Automation in Construction</i> , (1996) B. Kolarevic, L. Kalisperis & B. Johnson (eds.), Vol. 5, no. 3, Elsevier Science Press. "The Graphics Application Paradigm: A Framework for User Understanding of CG/CAD Applications", B. Johnson, in <u>Education and Practice: The Critical Interface</u> , proceedings

of the ACADIA'93 conference, College Station Texas, pp 11-20.

"Inside Out: A Critique of the Last Decade in Academic CAD", B. Johnson, in Proceedings of the ACADIA '90 Workshop, Big Sky Montana.

Book Review: The Electronic Studio Architectural Knowledge and Media in the Computer Era, Malcolm McCullough, William J. Mitchell, and Patrick Purcell, eds., The MIT Press, Cambridge, MA, 1990, in *ACADIA Quarterly*.

"Will the Real CAD Please Stand Up", B. Johnson, in *ARCADE, The Northwest Journal for Architecture and Design*, vol 4, no 4, October/November, 1985, p 5.

**Selected Professional Experience**

Director: Design Machine Group (2004-p); CAUP Computer Facilities, 1984-91  
Consultant: CAD training, CAD system design.  
Shareware author:

**Selected Academic and Public Service**

CAUP Faculty Council (member & chair).  
Search Committee Chair, Design Computing searches in 2004/5 and 5/6.  
Reviewer: Association for Computer Aided Design in Architecture (ACADIA), CAAD Futures, eCAADe, CAADRIA, FEIDAD, ACM-ICMI.  
Web support: ACADIA web site, ACADIA competitions, ACADIA online elections and ACADIA steering committee communications.  
Site Coordinator, ACADIA'95 Conference, Seattle.  
Member, ACADIA Steering Committee (numerous terms, 1992-p)  
"Webmaster" and promoter, College and Departmental web sites (1995-98).  
Consultant, Advisory Board Member, and college contact for UW Extension's "Certificate Program in CAD".

**Selected Awards & Honors**

ACADIA Award for Excellence in Research (2002)  
Gerald Williams Prize, Dept of Architecture (?)  
American Institute of Architects Certificate of Merit (1981);  
Member, Tau Sigma Delta, Phi Kappa Phi, Sigma Pi Sigma and Mortar Board honoraries.  
UW College of Architecture and Urban Planning Graduate Student Thesis Award

**MEHLIKA INANICI, PH.D.**  
**Assistant Professor, Dept of Architecture, (2005-present)**

<b>Degrees</b>	Ph.D. in Architecture, University of Michigan, 2004 M.Sc. in Architecture, University of Michigan, 2001 M.Sc. in Building Science, METU, Ankara, Turkey, 1995 B.Arch. in Architecture, METU, Ankara, Turkey, 1993
<b>Teaching Responsibilities (2001-2006)</b>	Arch 588 Research Practice Arch 380 Computers in Architecture Arch 598 Physically-based Rendering
<b>Selected Academic Experience</b>	Assistant Professor, University of Washington, (2005 - p) Postdoctoral Research Fellow, Lawrence Berkeley National Laboratory (LBNL), Building Technologies - Lighting Research Group, (2004 - 2005).
<b>Main Areas of Research &amp; Scholarship</b>	Architectural Lighting Analysis Building Performance Simulation and Analysis Computational Photography Computer Graphics
<b>Selected Publications and Reports</b>	“Validation of High Dynamic Range Photography as a Luminance Measurement Technique”, <i>Journal of Lighting Research and Technology</i> (forthcoming). “Per-pixel Data Acquisition with High Dynamic Range Photography” <i>Proceedings of International Commission on Illumination (CIE) 2005 Conference</i> , Leon, Spain, 18-20 May, 2005. <i>Evaluation of High Dynamic Range Photography as a Luminance Mapping Technique</i> . Lawrence Berkeley National Laboratory, LBNL Technical Report # 57545, 2004 (with Galvin). Available from: eScholarship Repository, University of California . <i>Transformations in Architectural Lighting Analysis: Virtual Lighting Laboratory</i> . Doctoral Dissertation, The University of Michigan, College of Architecture and Urban Planning, 2004. Available from: ProQuest Information and Learning, Ann Arbor, MI; AAT 3121949. “Transformation of High Dynamic Range Images into Virtual Lighting Laboratories”. <i>Proceedings of 8 th International Building Performance and Simulation Association (IBPSA) Conference</i> , Eindhoven, Netherlands, 10 - 14 August, 2003. “Utilization of Image Technology in Virtual Lighting Laboratory” . <i>Proceedings of International Commission on Illumination (CIE) 2003 Conference</i> , San Diego, 26 - 28 June, 2003. “Thermal Performance Analysis of Antalya - Saklikent National Observatory Guesthouse”. <i>Journal of Building and Environment</i> , Vol. 38, no.1, Jan 2003, pp. 177-184 (with Demirbilek, Yalciner, Ecevit, and Sahmali). "Application of the state-of-the-art Computer Simulation and Visualization in Architectural Lighting Research". <i>Proceedings of 7 th International Building Performance and Simulation Association (IBPSA) Conference</i> , Rio de Janerio, Brazil, August 13-15, 2001. “Energy Conscious Dwelling Design for Ankara”. <i>Journal of Building and Environment</i> , Vol. 35, no. 1, Jan 2000, pp. 33-40 (with Demirbilek, Yalciner, Ecevit, and Demirbilek). “Thermal Performance Optimization of Building Aspect Ratio and South Window Size in Five Cities Having Different Climatic Characteristics of Turkey”. <i>Journal of Building and Environment</i> , Vol. 35, no. 1, Jan 2000, pp. 41-52 (with

Demirbilek).

**Selected Grants,  
Awards and  
Honors**

*Gerald Williams Prize*, UW Dept of Architecture, 2006.

*Nuckolds Foundation Grant*, 2006.

*Outstanding Performance Award*, LBNL, 2005.

“Lighting Measurement, Simulation, and Analysis Toolbox”, Research funded by the Assistant Secretary for Energy Efficiency and Renewable Energy, Office of Building Technology, Building Technologies Program, of the U.S. Department of Energy under Contract No. DE-AC02-05CH11231, 2004-2005.

*Distinguished Dissertation Award*, Taubman College of Architecture and Urban Planning, The University of Michigan, 2004.

Scholarships, grants, and awards for doctoral studies ( *Rackham Graduate School Dissertation Grant*, *Architectural Merit Award*, *Nathan Levine Architectural Scholarship*, *Taubman Ph.D. Scholarship*) at the University of Michigan (2002 - 2003).

*Michigan Teaching Fellow* , The University of Michigan, Center of Research on Learning and Teaching (CRLT), Spring 2002.



**BENJAMIN D. DALTON**  
**Lecturer, Department of Architecture (pt: 2006 - present)**

<b>Degrees</b>	Master of Architecture, University of Washington, 2005. Bachelor of Environmental Design in Architecture, North Carolina State University, 2000
<b>Teaching Responsibilities (2001-2006)</b>	Arch 485: Digital Craft: Advanced Projects (focus on Digital Fabrication, 2006)
<b>Selected Academic Experience</b>	Lecturer, part time; University of Washington, Dept of Architecture (2006) North Carolina State University, Instructor (1998 – 1999) Taught workshops on Form-Z
<b>Selected Professional Experience</b>	The Miller/Hull Partnership, LLP, Seattle, Washington, Project Architect (8/05 – p) Pacific Rim Architecture LTD, Seattle, Washington, Associate (2/02 – 5/05) The Smith Sennett & Assoc., P.A., Raleigh, NC Designer (2/00-2/02) Small Kane Architects Architect Intern (5/99 – 8/99)
<b>Selected Papers &amp; Presentations</b>	Published: in Arcade Vol. 22.2, Winter 2003 p.14 Published: "Architects Without Borders Chapter forming in Seattle", Daily Journal of Commerce July 6, 2005 Published: "Vespa Dealership". Skin: UW Department of Architecture Studio Folio 2004
<b>Awards, Honors, Grants</b>	Co-founder of Team Hybrid, a diverse group of designers and artists in Seattle Sponsored by Allied Arts in the "Waterfront Design Collaborative" Designing an orphanage in Sri Lanka w/ARD and AWB-Seattle Co-founder of RAGS+, an independent group of designers dedicated to raising design awareness in Raleigh, NC. Honorable mention Chapel Hill Gateway Competition Built Arbor for the Tammy Lin Center for the Disabled Recipient of the Poole Scholarship for studying architecture in Berlin, Germany at Kumstochschule in Wiessensee – Fall 1999

**JAMIE FLEMING**

**Lecturer, Department of Architecture (pt: 2003 – present)**

**Degrees**

Master of Architecture, University of Washington, (2002)  
Bachelor of Science in Business, Wake Forest University, (1994)

**Teaching  
Responsibilities  
(2001-2006)**

Arch 380: Computers in Architecture  
Arch 481: 3D Modeling & Rendering

**Selected  
Academic  
Experience**

Graduate Teaching Assistant, University of Washington (1999 – 2001)  
Architectural History of the Middle Ages  
History of Modern Architecture

**Selected  
Professional  
Experience**

Harborview Medical Center – Seattle, WA  
Participated in design of \$300 million expansion of level one regional trauma center, designing building shell and core, in-patient floors, intensive care units and research labs; facilitating meetings with physician user groups and specialty consultants; using three dimensional digital modeling software for project design.  
Project Manager, UW BaSIC Initiative, Majiwa, Kenya 2001  
NIA Health Clinic and Resource Center (thesis design project)  
Majiwa Village Master Plan  
Design Partner, Studio 216 Architects

**Selected Papers  
& Presentations**

**Awards,  
Honors,  
Grants**

Guest juror UW Dept of Architecture (2002-2004)  
*AIA Honor Award* for Kenyan Village Master plan (M.Arch thesis, 2003)  
Guest presenter University of Virginia Structures for Inclusion III (2003)  
Guest lecturer UW Dept of Architecture, *health care design class* (2003)  
*Architecture for Humanity* mobile AIDS international traveling exhibit (2002)  
Valle scholarship, Copenhagen, Denmark (2002)  
UW research grant, design build department Kenya, Africa (2002)  
*Chair Affair* furniture design competition – honor award (2001)  
Design studio “commend” - Prof. Michael Pyatok (2001)

**RAY C. FREEMAN III**  
**Lecturer, Department of Architecture (pt: 2004)**

<b>Degrees</b>	Master of Architecture, with distinction, Harvard Graduate School of Design, (1982) Bachelor of Arts in Environmental Design, University of Washington (1977)
<b>Teaching Responsibilities (2001-2006)</b>	Undergraduate and Graduate Design Studio
<b>Selected Academic Experience</b>	University of Washington, Design Studio Instructor, Architecture (1985, '92, '06) Boston Architectural Center, Design Studio Instructor (1981-1983) Harvard Graduate School of Design, Principal Instructor in Architecture, Career Discovery Program (1983), Chief Studio Instructor, Career Discovery Program, (1981) Teaching Assistant, Graphic Studio, 1979
<b>Selected Professional Experience</b>	Director of Design, Mike Rosen Architects, PC, (2002-p) Director of Software Development, 2ce, Inc. – Software Development Co. (2000-2001) Founder & President, CyberToys, Inc. (1996-p) Founder, Principal, Lead Designer, Workshop 3D, Inc. (1986-p) Director of Design & Project Architect , Ibsen Nelsen & Associates (1984-1986)
<b>Selected Papers &amp; Presentations</b>	Author, <u>Using Generic CADD</u> and <u>Generic CADD Inside and Out</u> Published by McGraw Hill, 1988, 1990 Invited presenter at numerous seminars, including Autodesk University, NECC, NAHB, etc. Published in Generic News, Arcade (Northwest Journal for Architecture and Design) and other publications
<b>Awards, Honors, Grants</b>	Citation from the American Institute of Architects, Schmidt Residence, 1990 Citation from the American Institute of Architects, Historic Oysterville Barn Remodel, 1992 Society for Technical Communications award for Generic 3D Manual, 1990 First Place, National Student Design Competition, Precast Concrete Institute, Chicago, 1982 President “Blueprint: for Architecture” 1984-1985

**DAVID J. HUDACEK**  
**Lecturer, Department of Architecture (pt: 1998 – present)**

<b>Degrees</b>	M. Arch. University of Washington (1988) Bachelor of Science. Oregon State University (1977) Naval Nuclear Engineering & Submarine School, U.S. Navy (1978)
<b>Teaching Responsibilities (2001-2006)</b>	Arch 478: CAD & Working Drawings
<b>Selected Academic Experience</b>	Adjunct Faculty Member, University of Washington, Department of Architecture Lecturer for Facilities Management Professional Degree Program, University of Washington
<b>Selected Professional Experience</b>	<i>Partner</i> , Rees Hudacek L.L.C., Seattle, WA (1996-p) <i>Associate</i> , Paul Segal Associates Architects, Seattle, Washington (1990-1996) <i>Project Architect</i> , Hobbs Architecture Group-Wyatt Stapper Architects, Seattle, WA (1988-1990) <i>Intern Architect</i> , Doug Kelbaugh/Dale Chihuly, The NBBJ Group, The Callison Partnership, Seattle, WA (1985-1989)
<b>Selected Papers &amp; Presentations</b>	1988 "An Architecture of Substance." Massachusetts Institute of Technology AIA/AIAS Design Symposium
<b>Awards, Honors, Grants</b>	1995 Meritorious Service Medal, U.S. Navy. Presented for innovative fiscal management and cost savings. 1988 AIA Certificate of Achievement, University of Washington. Presented for high scholarship and class standing 1987 Valle Scholarship, Scandinavian Exchange Program, Copenhagen, Denmark, University of Washington 1986 Faculty Medal, Department of Architecture, University of Washington. Presented for scholarship and design excellence. 1986 Honorary, Tau Sigma Delta. Life member Honor Society in Architecture and the Allied Arts 1976 Standard Oil Scholarship, Oregon State University. Presented for academic excellence.

**ANNE HAYDEN STEVENS**  
**Lecturer, Department of Architecture, (1997-present)**

<b>Degrees</b>	M.A. in Design (Visual Studies), College of Environmental Design, UC Berkeley (1997) B.F.A in Printmaking & Drawing, with High Distinction, CCAC (1991) Il Bisonte International School of Printmaking, Florence, Italy (1987-1989)
<b>Teaching Responsibilities (2001-2006)</b>	Arch 416: Freehand Drawing in the Digital Realm Arch 417: Advanced Topics in Digital Drawing Arch 210 & 211: Design Drawing
<b>Selected Academic Experience</b>	Lecturer, Dept of Architecture, UW, (1998-p) Lecturer, College of Environmental Design, UC Berkeley (1997-1998) Associate Professor, California State University Hayward Extension Program (1997-1998) Consultant to Visual Studies faculty regarding digital media, School of Architecture, UC Berkeley
<b>Main Areas of Research/Practice</b>	Fine Artist, exhibiting paintings and artist's books nationally & internationally Graphic Designer, art direction and design for web and print media
<b>Selected Papers, Publications &amp; Presentations</b>	Profiled Artist: ARTSUP Project, Seattle Arts Commission, 2001 Artist's Talk: Bellevue Art Museum Board of Directors Annual Meeting, Bellevue, WA, 2000 Artist's Talk: Making Space @ FX Pal: Xerox Corporation, Palo Alto, CA, 1998 Artist's Talk in conjunction with 25 Years: The Bookarts at CCAC, Retrospective Exhibition, San Francisco Center for the Book, 1997 "Drawing will Never be Obsolete: Reflections on the Continuities between Digital and Traditional Media," <i>Column 5</i> , Vol. 14. College of Architecture & Urban Planning, UW, 2000. Siggraph Faculty Submitted Slides: International Traveling Exhibition of Student Work on CD-ROM, 1999. Featured in: <i>Creating Handmade Books</i> , Alisa Golden, Sterling Press, 1999 "Digital Resources for Printers and Book Artists," <i>The Ampersand</i> , Spring 1998 "Making Space," <i>The Ampersand</i> , Spring 1997
<b>Selected Professional Experience</b>	Exhibit: "Linkages 2001: The Human Figure," The Fountainhead, Seattle, 2001 Exhibit: "The Whole World is Watching: Art, Images, and Literature from the WTO Protests," Center on Contemporary Art, Seattle, 2000 Book Arts Exhibit, Northwest Bookfest, Seattle, WA: Juried Exhibition, 1999 Gallery Representation, Wessel & Lieberman, Seattle, WA, 1998 Founder's Day Exhibition, invited artist, Schwab Gallery, CCACSF San Francisco, CA, 1998 Solo Exhibition, Assembly, Berkeley, CA, 1997 An Evening with Artist's Books, Manuscript Library, Columbia University, NYC, 1997 25 Years of Bookarts at CCAC, Accomplished Students & Faculty from CCAC, 1997 Book and Paper PCBA @ SF Public Library, 1997 Science Imagined, Berkeley Art Center, 1996 Inaugural Exhibition, The San Francisco Public Library, 1995 Tracing Lives, curator, Berkeley Store Gallery, Berkeley, CA, 1995 Italia-USA: Un Passione Per l'Arte, Palazzo Strozzi, Florence, Italy, 1992
<b>Selected Public Service</b>	Center for Environment & Education in Design Studies (CEEDS), College Representative of the Colleges of Architecture & Education in a national ATTE (Arts in Teaching & Teacher Education) initiative, funded by the Getty Foundation, 1999-2000
<b>Honors &amp; Awards</b>	Regents Fellowship, UC Berkeley, 1997 Outstanding Graduate Student Instructor, CED, UC Berkeley, 1997

**RON WRIGHT, AIA**  
**Lecturer, Dept of Architecture (pt: 1999? – present)?**

**Degrees**

Master of Architecture, University of Washington (1987)  
Bachelor of Science, Architecture, University of Virginia (1982)

**Professional  
Licensing**

Architect, State of Washington, 1988

**Selected  
Professional  
Experience**

*Founding/Managing Principal*, Ron Wright & Associates / Architects, (1994-p).  
Representative projects include: Washington Shoe Building Renovation, Seattle; Seattle Pacific University Stearns Hall Renovation, Seattle; AIDS Housing of Washington – Shirley Bridge Bungalows, Seattle; Union Station Restoration, Seattle; Liberty Bay Housing, Kitsap Mental Health Services, Bremerton, Adolescent Treatment Unit and Residential Treatment Center Renovations, Bremerton; Rainier Valley Cultural Center, Seattle;  
Associate, ARC Architects, Seattle, WA (1988-1993)  
Elaine Day LaTourelle & Associates, Seattle, WA (1985 – 1988)  
KSA Group Architects, Monterey, CA (1982-1984)

**Affiliations**

Member, American Institute of Architects

**Selected Public  
Service**

Vice President of the Board of Trustees for Downtown Emergency Service Center.  
Appointed Member Seattle-King County Workforce Development Council.  
Member of the Board of Trustees for the Community Psychiatric Clinic, a non-profit which provides mental health services within the City of Seattle (1992-98)  
Member of the City of Seattle Mayor's Small Business Task Force (1995-99)  
Appointed Member of the Advisory Board of the Seattle Jobs Initiative Project.

**BOAZ ASHKENAZY**

**Lecturer, Dept of Architecture (pt: 2003? – present)**

<b>Degrees</b>	Master of Architecture, University of Washington, 2002 University of California, Santa Cruz, Bachelor of Arts, 1993
<b>Teaching Responsibilities</b>	University of Washington, Undergraduate Guest Critic, 2001 Lighting Design Lab, Student Intern responsible for daylighting model building, heliodon testing Design-Build Mexico, Student Designer and Builder of Elementary School for Squatter Settlement in Tejalpa, Mexico University of Washington Department of Computer Animation “The Last Lift” film selected for preview at Bumbershoot 2000, Set and Production Design Design-Build Strawbale Housing: Student designer and builder of low cost strawbale housing for family of 4 on Crow Nation Reservation, Montana
<b>Selected Publications</b>	Environment and Behavior, Book Review of Shelter and Society: Theory, Research and Policy for Non-Profit Housing, January, 2001, Volume 33, Number 1
<b>Selected Professional Experience</b>	Column 5: Introduction, University of Washington, 2000 Snyder Hartung Kane and Strauss Architects Intern Architect 2001 – present, Seattle, Washington Miller/Hull Partnership Student Intern 2000, Seattle, Washington Studio: 216 Partner 1999 – present, Seattle, Washington The Colyer Freeman Group Architects Student Intern 1997-1998, San Francisco, California
<b>Selected Academic and Public Service</b>	HIV/AIDS Mobile Clinic for Africa – Architecture for Humanity (2002) New York, New York Selected for Traveling International Exhibition HIV/AIDS Mobile Clinic for Africa – Architecture for Humanity (2003) Traveling Exhibition (New York, Los Angeles, Rotterdam, Johannesburg, Milan, Washington DC) C.Y. Loh Retrospective, Vancouver BC Co-designed modular display panels for traveling exhibition
<b>Selected Awards &amp; Honors</b>	HIV/AIDS Mobile Clinic for Africa – Selected for International Traveling Exhibition (2002) Tau Sigma Delta Honor Society in Architecture and the Allied Arts – University of Washington (2001) AIA/AAF Scholarship for First Professional Degree Candidates – University of Washington (2001) Graduate Studio Commend: Housing Studio (2001), Digital Design Studio (2000)
<b>Selected Presentations</b>	

**MEREDITH CLAUSEN, Ph.D.**  
**Professor, Departments of Art History and Architecture**

<b>Degrees</b>	Ph.D. University of California, Berkeley. 1975. M.A. University of California, Berkeley. 1972.
<b>Teaching Responsibilities</b>	Arch 456: Nineteenth Century Architecture Arch 457: Twentieth Century Architecture Arch 459: Architecture Since 1945 Arch 488: American Architecture Arch 529: Seminar in American Architecture Arch 558: Seminar in Twentieth Century Architecture
<b>Selected Academic Experience</b>	Professor, University of Washington, 1993-present. Associate Professor, University of Washington, 1985-93. Assistant Professor, University of Washington, 1979-85. Visiting Associate Professor, Stanford University, Summer 1987. Visiting Assistant Professor, Stanford University, 1985-86; Summer 1984. Acting Assistant Professor, Stanford University, 1977-78; Summer 1979.
<b>Main Areas of Research &amp; Scholarship</b>	Modern European Architecture American Architecture Architecture in the Northwest
<b>Selected Publications</b>	<i>The Pan Am Building and the Shattering of the Modernist Dream</i> (Cambridge, MA: The MIT Press, 2005). "Merchant Builder Meets High-End Architect: Joseph Eichler and Pietro Belluschi," <i>Eichler Network</i> , Fall 2001. "Gehry's Experience Music Project in Seattle," <i>Bauwelt</i> 42/00 (November 2000): 36-43. "Pietro Belluschi," and "John Yeon," <i>Dizionario dell' Architettura del XX Secolo</i> (Turin: Umberto Allemandi & Co, 2000). "The Pasadena Art Center, and the Curious Case of Craig Ellwood," <i>Casabella</i> 664 (February 1999). <i>Pietro Belluschi. Modern American Architect</i> (Cambridge MA: The MIT Press, 1994). <i>Spiritual Space. The Religious Architecture of Pietro Belluschi</i> (Seattle: University of Washington Press, 1992).
<b>Selected Academic and Public Service</b>	Invited Presentations, HEC Board, Technology in the Classroom (sponsored by the Undergraduate Dean's Office). Urban Design and Planning Ph.D. Program Review Committee (Graduate School; spring 1998) Graduate Program Adviser, Art History, 1996-present. Design/History position, search committee (Arch. Dept, winter/spring 1998). Modern Search Committee, winter quarter, 1997.
<b>Selected Papers and Presentations</b>	"Computer Technology and the Globalization of Architecture," Session Chair, SAH Annual Meeting, Toronto, April 2001. Philip Johnson, the Portland Building, and the Great Unknown, plenary lecture, Western Regional ACSA conference, Portland, October 1999. Cultural Identity in American Architecture: The Thai Temple and the Expression of Thai-Americanism, Beyond Babel Conference, Western Humanities Alliance, October 1999 (paper accepted, unable to go) Portland: the Role of the City in the 21st Century, keynote speaker, symposium, Portland, March 1999. Living with a Landmark: The Church of the Redeemer, Baltimore, MD, fall 1998. "Migrating Architecture and the Trade of Ideas," Summer Institute sponsored by the Jackson School of International Studies, June 1997.



**JEFFREY OCHSNER**  
**Professor, Departments of Architecture**

<b>Degrees</b>	Master of Architecture, Rice University, Houston, Texas, 1976. B.A., Rice University, Houston, Texas, 1973.
<b>Teaching Responsibilities</b>	Arch 352: History of Modern Architecture, 1750-present Arch 452: History of Architecture in Seattle and Environs Arch 500: Graduate Design Studio Arch 556: The Arts and Crafts Movement Arch 590: Issues in Urban Design and Historic Preservation
<b>Selected Academic Experience</b>	Professor, University of Washington, - present. Associate Professor, University of Washington, Assistant Professor, University of Washington, 1988-
<b>Main Areas of Research &amp; Scholarship</b>	Architectural design Historic preservation Urban design Mass transit Architectural history (especially 19th and 20th centuries and Pacific Northwest)
<b>Selected Publications</b>	Co-author with Dennis Andersen, <i>Distant Corner: Seattle Architects and the Legacy of H. H. Richardson</i> (Seattle: University of Washington Press, 2003). "Behind the Mask: A Psychoanalytic Perspective on Design Studio <i>JAE: Journal of Architectural Education</i> 53 (May 2000): 194-206. "Seeing Richardson in His Time: The Problem of the Romanesque Revival," in Maureen Meister, ed., <i>H. H. Richardson: The Architect, His Peers, and Their Era</i> (Cambridge MA and London: MIT Press, 1999): 102-145. Editor/Co-author, <i>Shaping Seattle Architecture: A Historical Guide to the Architects</i> (Seattle: University of Washington Press, 1994). <i>H. H. Richardson: Complete Architectural Works</i> (Cambridge MA: MIT Press, 1982; rev. paperback ed. 1984).
<b>Selected Academic and Public Service</b>	Board Member, Society of Architectural Historians, 2000-2003. Chair, Department of Architecture, 1996-2002. Local Chair, Annual Meeting of the Society of Architectural Historians, Seattle, 1995. Editorial Board, <i>JAE: Journal of Architectural Education</i> , 1990-1994. Coordinator, UW College of Architecture & Urban Planning Lecture Series, 1988-1996.
<b>Selected Awards &amp; Honors</b>	Fellow, American Institute of Architects Merit Award, Washington Trust for Historic Preservation, for <i>Shaping Seattle Architecture</i> , 1995. Lionel "Spike" Pries Teaching Award, College of Architecture and Urban Planning, 1990, 1992.
<b>Selected Papers and Presentations</b>	"Lionel Pries at the University of Washington," Annual Meeting of the Society of Architectural Historians, Denver CA, 26 April 2003. "The Cambridge Legacy of H. H. Richardson," at "Sources and Inspiration: Boston as a Beacon for the American Arts and Crafts Movement," conference by NYU School of Continuing and Professional Studies, Boston MA, 23 June 2002. "Must Every Building be a Fortress? Thoughts on Design and Construction

after 11 September 2001,” presentation for University of Washington “Day of Reflection,” Seattle, 11 October 2001.

“H. H. Richardson and the Origins of the American Arts and Crafts Movement,” keynote at “The American Arts and Crafts Movement in an International Context,” conference by NYU School of Continuing and Professional Studies, Chicago IL, 14 June 2001.

“Preserving Our Schools: Deciding the Fate of Historic School Buildings,” panel respondent at the AIA Seattle Historic Preservation Forum, 17 May 2001.

**ALEX ANDERSON, Ph.D.**  
**Associate Professor, Departments of Architecture**

<b>Degrees</b>	Ph.D. in Architecture, University of Pennsylvania, Philadelphia, PA, 1997 M.S. in Architecture, University of Pennsylvania, Philadelphia, PA, 1995 M.Arch., University of Pennsylvania, Philadelphia, PA, 1995 B.S. in Civil Engineering, Cornell University, Ithaca, NY, 1987
<b>Teaching Responsibilities</b>	Arch 350: Architecture of the Ancient World Arch 450: Modern Architecture and the Decorative Arts Arch 463: Theories of Representation BE 551: The Contemporary Built Environment Arch 500: Graduate Design Studio
<b>Selected Academic Experience</b>	Associate Professor, University of Washington, 2005-present. Assistant Professor, University of Washington, 1998-2005. Assistant Professor, University of North Carolina at Charlotte, 1996- 1998. Adjunct Professor, Philadelphia College of Textiles and Science, 1993-1995. Instructor, University of Pennsylvania, 1993-1995.
<b>Main Areas of Research &amp; Scholarship</b>	Architectural Design Architectural Theory Architectural History Architectural Representation Decorative Arts
<b>Selected Publications</b>	"Gastronomy, Architecture and the Continuity of Taste," <i>Column 5</i> , 1999. "Modern Architecture under the Sway of the Lesser Arts," Proceedings of the 1998 ACSA West Regional Meeting, October 1998 (Department of Architecture, University of California, Berkeley, 1998). <i>Modern Architecture and the Commonplace</i> , Doctoral dissertation, UMI #9727186, Ann Arbor, MI, 1997. "Scale and Inhabitation: On the Human Figure in Architectural Representations," Proceedings of the 86th Meeting of the ACSA European Conference: Constructions of Tectonics for the Postindustrial World, Copenhagen, May 1996, (Washington, DC: ACSA Press, 1996).
<b>Selected Academic and Public Service</b>	Associate Chair, Department of Architecture, 2005-present. Faculty Senator, University of Washington, 2003-present. AIA Seattle Civic Design Awards, juror, April 2006. Peer reviewer of conference papers for the ACSA: Association of Collegiate Schools of Architecture, 1998-2000. Charrette Team Leader, Sites of Learning in Tukwila, University of Washington, 2000. Graphic design work for the Pacific Northwest Cancer Foundation. Architectural design Consultation for the Northwest Chapter of the American Cancer Society and the Pacific Northwest Cancer Foundation. Lecture for World Languages Day, University of Washington, 2000, 2001.
<b>Selected Awards &amp; Honors</b>	Lionel "Spike" Pries Teaching Award, College of Architecture & Urban Planning, 2003. Academic Program Improvement Grant (joint recipient), University of North Carolina at Charlotte, 1997. Junior Faculty Development Grant, University of North Carolina at Charlotte, 1997. Faculty Research Support Grant, University of North Carolina at Charlotte, 1997.
<b>Selected Papers and Presentations</b>	"Cubist Collage/Modernist House", public lecture (by invitation) at Washington State University, School of Architecture and Construction Management, October 30, 2006. AIA Seattle Design Dialog, "The Desirability of Architecture," April 2006. "Marketecture: How Architects Use Images to Sell Ideas", Design Machine Group Lab Lunch Colloquium, Department of Architecture, University of Washington, Feb 2006. "Columns and the Orders" invited public lecture, Masons of Seattle, Doric Lodge, October 24, 2005. "Learning from the German Machine: Le Corbusier's 1912 <i>Etude sur le mouvement d'art décoratif en Allemagne.</i> " ACSA National Conference in Chicago, March 2005.

**TRINA DEINES**  
**Associate Professor, Departments of Architecture**

**Degrees**

M.Arch. University of Washington, 1979  
M.A., Art History, University of Minnesota, 1974  
B.A., Art History, University of Minnesota, 1967

**Teaching  
Responsibilities**

Arch 150: Appreciation of Architecture I  
Arch 151: Appreciation of Architecture II  
Arch 498: Roman Architecture Seminar  
Architecture in Rome Program  
Graduate and Undergraduate design studios

**Selected Academic  
Experience**

Associate Professor, University of Washington,  
Assistant Professor, University of Washington,

**Main Areas of  
Research &  
Scholarship**

Architectural History  
Ancient Architecture  
Roman Architecture

**Selected Publications**

"Topography and Memory," *Column 5*, Vol. XIV, 2000.

**Selected Academic  
and Public Service**

Director, UW Rome Center, 2000-present.  
Co-director, UW Rome Center, 1993-2000.  
Associate Dean, College of Architecture & Urban Planning, 1988- present.  
Co-Chair, International Meeting of ACSA in Rome, May-June 1999.  
International Faculty Council, advisory to UW President and Provost, 1998-  
present.  
Campus Art Committee for UW Bothell, 1998-present.  
Board of Trustees, Faculty Club, Member; UW Speakers Bureau, 1998-  
present.  
Member, Ad Hoc Committee on Departmental Strategic Plan, 1998-1999.  
City of Seattle Sand Point Design Commission, 1998-1999.  
Campus Art Committee of the Washington State Arts Commission, 1997-  
present.  
Editorial Board, *Journal of Architectural Education*, 1995-1998.  
North Capitol Hill Neighborhood Association, 1993-1996.

**Selected Awards &  
Honors**

Faculty Development Research Award, College of Architecture & Urban  
Planning, June 1998.  
Curriculum Transformation Grant, 1996-1997.

**Selected Papers and  
Presentations**

"The Arx and the Aracoeli: Preserving the Archaic, Presenting the Feminine,"  
paper presented at Annual ACSA Meeting in Minneapolis, MN, March 1999.  
Lecture in Italian Studies/Art History 250, Winter 1998.  
Lectures to various UW and non-UW academic Rome programs, Spring 1997.

**BRIAN L. MCLAREN, Ph.D.**  
**Associate Professor, Departments of Architecture**

**Degrees**

Ph.D. in Architecture, Massachusetts Institute of Technology, 2001  
M.Sc. in Architecture and Building Design, Columbia University, 1986  
B.Arch., University of Waterloo, 1982  
B. Environmental Studies, University of Waterloo, 1980

**Teaching Responsibilities**

Arch 560 Graduate Seminar in Architectural Theory  
Arch 442 Africa and Middle East Seminar  
Arch 351 Romanesque, Gothic and Renaissance Architecture  
Arch 500 Architectural Design Studio  
Arch 302 Introduction to Architectural Design III  
Architecture in Rome Program

**Selected Academic Experience**

Associate Professor, University of Washington, (2006-p)  
Assistant Professor, University of Washington, (2001-2006)  
Adjunct Lecturer, Roger Williams University, (Fall 1997)  
Assistant Professor, Washington University, (1991-1993)  
Special Lecturer, New Jersey Institute of Technology, (1990-1991)  
Assistant Professor, Washington University, (1988-1990)  
Visiting Assistant Professor, Washington University, (1886-1988)

**Main Areas of Research & Scholarship**

Modern architecture and colonialism  
Modern architecture and the vernacular  
Architecture and publication  
Urban and architectural theory

**Selected Publications**

*Architecture and Tourism in Italian Colonial Libya: An Ambivalent Modernism*, (Seattle: University of Washington Press, 2006).  
"The Architecture of Tourism in Italian Libya: the Creation of a Mediterranean Identity." In *Italian Colonialism: A Reader*. Edited by Mia Fuller and Ruth Ben-Ghiat. (New York: Palgrave, 2005): 167-78.  
*Architecture and Tourism: Perception, Performance and Place*, Edited by D. Medina Lasansky and Brian McLaren. (Oxford: Berg Press, 2004)  
"The Italian Colonial Appropriation of North African Vernacular Architecture in the 1930s," *Muqarnas* 19 (Journal of the Aga Khan Program for Islamic Architecture, 2002): 164-92.  
"The Tripoli Trade Fair and the Representation of Italy's African Colonies." *The Journal of Decorative and Propaganda Arts* 24 (2002): 170-97.  
"Die Konstruktion des mediterranen Mythos in der modernen italienischen Architektur: Bezüge zwischen Italien und Wien." In *Das entfernte Dorf: Moderne Kunst und ethnischer Artefakt*. Edited by Ákos Moravánszky, Translated from English by Christoph Franck. (Vienna: Bohlau Verlag, 2001): 223-48.

**Selected Academic and Public Service**

Faculty Senator, University of Washington, 2004-2008.  
Conference organizer and session moderator, *Critical Practice in a Globalizing World. Part 1: Stranger in a Strange Land*. Symposium held at the University of Washington, October 27-28, 2006. With Peter Cohan, Nicole Huber, and Ken Oshima.  
Faculty Search Committee, Design Computing (2006), Design + International (2005), and Design (2002).  
Architecture Librarian Search Committee, 2004.  
Strategic Planning Committee, 2003.  
Department of Architecture Chair Search Committee, 2002.

**Selected Awards & Honors**

CAUP Faculty Award for Completed work, for *Architecture and Tourism in Italian Colonial Libya: An Ambivalent Modernism* (Seattle: University of Washington Press, 2006).  
Lionel "Spike" Pries Distinguished Teaching Award, UW College of Architecture and Urban Planning, 2006.  
Johnston/Hastings Publication Support, College of Architecture and Urban Planning, University of Washington, 2003.  
Postdoctoral fellowship, Aga Khan Program for Islamic Architecture at Harvard

University, 2000-2001.

International dissertation research fellowship, Social Science Research Council, 1999.

Fulbright grant, Italy. J. William Fulbright Foreign Scholarship Board, 1998-1999.

**Selected Papers and Presentations**

"Architecture and Tourism in Italian Colonial Libya: An Ambivalent Modernism." Public Lecture in Praxis Lecture Series, College of Architecture and Urban Planning, University of Washington, Henry Art Gallery, May 9, 2006.

"The Libyan Tourist and Hotel Association and the ambivalent modernism of the tourist system in Italian colonial Libya." Paper presentation at "Agendas for Designing the Modern World: A Decade of Research at the Wolfsonian," The Wolfsonian-Florida International University, December 9-11, 2005.

"Italian Colonial Architecture and the Arab Vernacular in Libya: An Ambivalent Modernism." Public lecture at Boston Architectural Center: Spring 2005 History-Theory Lecture Series, April 25, 2005.

"Morocco in the 1950s: Modernism, regionalism and decolonization." Paper presented at the 56th Annual Meeting of the Society of Architectural Historians, Denver, Colorado, April 23-27, 2003.

"Modern Architecture, Preservation and the Discourse on Local Culture in Italian Colonial Libya." Invited paper presented at "Local Sites of Global Practice: Modernism in the Middle East." Symposium at Yale School of Architecture, April 4-5, 2003.

"From Modern Icon to Ethnographic Object: The Changing Identity of Indigenous Architecture in Italian Colonial Libya." Lecture given at symposium, "Italian Modernisms: Architecture-politics-urban identity," Cornell University, October 4-5, 2002.

**VIKRAM PRAKASH, Ph.D.**  
**Associate Professor and Chair, Departments of Architecture**

**Degrees**

Ph.D., Cornell University, 1994.  
M.Arch. Cornell University, 1989.  
B.Arch. Chandigarh College of Architecture, 1986.

**Teaching Responsibilities**

Arch 251: World Architecture: Non-Western Cultures  
Arch 445: South Asian Architecture I  
Arch 446: South Asian Architecture II  
Arch 498: Asian Cities - History, Theory and Practice  
Arch 563: Graduate Seminar in Architecture and Cultural Theory

**Selected Academic Experience**

Associate Professor, University of Washington, 2000-present.  
Assistant Professor, University of Washington, 1996-2000.  
Visiting Assistant Professor, Arizona State University, 1994-1996.  
Visiting Faculty, Center for Environmental Planning and Technology, Ahmedabad, 1990-91.

**Main Areas of Research & Scholarship**

Modern Architecture outside the West  
South Asian Architecture  
Post-colonial Theory

**Selected Publications**

Co-Author, with Frank Ching and Mark Jarzombek, *A Global History of Architecture* (New York: John Wiley and Sons, 2006).  
Co-author, with Amy Potter, "Chandigarh", *Encyclopaedia of Twentieth Century Architecture*, R. Stephen Sennott, editor (Chicago: Fitzroy Dearborn, 2004.).  
Chandigarh's Le Corbusier: The Struggle for Modernity in Postcolonial India (University of Washington Press, 2002).  
"Between Objectivity and Illusion: Architectural Photography in the Colonial Frame" *JAE Journal of Architectural Education* (September 2001).  
Co-Author, with Aditya Prakash, *Chandigarh: The City Beautiful* (Chandigarh, India: Abhishek Publications, 1999).  
Editor, *Theatres of Decolonization: Architecture, Urbanism, Agency*, (Seattle: University of Washington, 1997).

**Selected Academic and Public Service**

Chair, Department of Architecture, University of Washington, 2002-present.  
Associate Dean, College of Architecture and Urban Planning, 2001-2002.  
Member, Advisory Commission, Seattle Center (appointed by Mayor of Seattle), 2005-present.  
Member, Editorial Board, *JAE: Journal of Architectural Education*, 2005-present.  
Series editor, *Sustainable Design Solutions from the Pacific Northwest*, University of Washington Press, 2003-present.  
Member, Editorial Board, *Thresholds* (Department of Architecture, MIT), 1997-present.

**Selected Awards & Honors**

Asian Studies Initiative, University of Washington, travel grant for documenting architecture in China and Japan, 2002.  
With Frank Ching and Mark Jarzombek, Graham Foundation for Advanced Studies in the Fine Arts. Book research grant, 2001.  
With Frank Ching and Mark Jarzombek, John Wiley and Sons, Research grant for *A Global History of Architecture*, 2001.

With Kristina Hill, Marina Alberti, Jerry Finrow, Tools for Transformation Project, University of Washington, CAUP Internet Teaching Resource Center, 1998.

**Selected Papers and Presentations**

"Chandigarh's Le Corbusier" invited public lecture *Part of Modernism Class by Anthony Vidler, The Irwin S. Channon School of Architecture*, The Cooper Union, New York, NY (February 2005).  
"Inside Outsourcing" participation in discussion *Part of Gurgaon Studio by Reinhold Martin*, Columbia University, New York, NY (February 2005).  
"Chandigarh's Le Corbusier" invited public lecture *Open Lecture Series, University of Oregon*, Eugene, OR (November 2004).  
"Hindu Architecture: A Four Lecture Series" invited lectures *Sunset Club*, Seattle (October 2004).  
"Indian Modernism: Rethinking Chandigarh in the Post Non-Aligned World" invited public lecture in symposium *Le Corbusier: Messenger*, Fondation Suisse, Paris (September 2004).  
"Chandigarh's Le Corbusier" invited public lecture *Open Lecture Series*, Department of Architecture and Civil Engineering, *Kobe University*, Kobe, Japan (August 2004).  
"Untitled" invited public lecture on my career *AIA Seattle Honors Luncheon*, AIA Seattle, Seattle (May 2004).  
"Chandigarh/Khajuraho" invited lecture *Sunset Club*, Seattle (February 2004).  
With Francis D. K. Ching, Mark Jarzombek, "A Global History of Architecture" invited public lecture *Open Lecture Series* Roger Williams University, Bristol, RI (January 2004).



**NICOLE HUBER**  
**Assistant Professor, Departments of Architecture**

<b>Degrees</b>	Postgraduate Research Position in Architecture / Urbanism, Qualifikationsstelle 0,5 BAT II A, Universität der Künste Berlin, Germany, 1996-2001. Dipl.-Ing. in Architecture (Diplom-Ingenieur, equivalent to a Master of Architecture), Technische Universität Darmstadt, Germany, 1984-1991. Vordiplom in Architecture, Technische Universität Darmstadt, Germany, 1982-1984.
<b>Teaching Responsibilities</b>	Arch 305: Introduction to Design Studio III Arch 462: Spatial Composition in Architecture Arch 498: Critical Practice in a Globalizing World Arch 500, 503, 504: Graduate Level Design Studios Arch 561: Urban Design Theory
<b>Selected Academic Experience</b>	Assistant Professor, University of Washington, 2005-present. Gastprofessur in the Program for Urban Processes (Co-Director), Faculty of Design, Universität der Künste Berlin, 2001-2004. Visiting Research Fellow, Massachusetts Institute of Technology, History, Theory, Criticism Program; Department of Architecture Wissenschaftliche Mitarbeiterin in Architecture and Urban Design, Faculty of Design, Universität der Künste Berlin, 1996-2001.
<b>Main Areas of Research &amp; Scholarship</b>	Modern architecture Modern urbanism Media representation
<b>Selected Publications</b>	"From 'Berlin' to 'Germania': Cinema and the Implementation of National Politics in Regional Planning (1926-39)," (article), in: C. Zimmermann (ed.), <i>Zentralität und Medialität der Großstädte im 20. Jahrhundert</i> , (Stuttgart: Steiner, 2005). (forthcoming) "Center or Nexus: Berlin's New Politics of Belonging," (article), in: <i>Journal of Urban History</i> , 32.1, (November, 2005): 82-103. "Sites of Resistance — Sites of Transition," (article / photo essay w/ R. Stern), in: <i>afiles</i> , 52, (August, 2005): 12-21. "Kon-Versionen: Zur Produktion neuer Sichtweisen des Urbanen," (article), in: D. Genske, S. Hauser (ed.), <i>Die Brache als Chance</i> , (Berlin: Springer, 2002): 177-204.
<b>Selected Academic and Public Service</b>	Conference organizer and session moderator, <i>Critical Practice in a Globalizing World. Part 1: Stranger in a Strange Land</i> . Symposium held at the University of Washington, October 27-28, 2006. With Peter Cohan, Brian McLaren, and Ken Oshima.
<b>Selected Papers and Presentations</b>	"Berlin's Architecture in an Expanded Field," (article), in: ACSA International Conference Papers, (Washington D.C., 2004). "Constructing the Urban Imaginary: Berlin—Los Angeles," (article w/ R. Stern), in: ACSA International Conference Papers, (Washington D.C., 2004).

**LOUISA IAROCCHI, Ph.D.**  
**Assistant Professor, Departments of Architecture**

**Degrees**

Ph.D., History of Art and Architecture, Boston University, Boston, MA, 2003.  
MA (Art History), Washington University in St. Louis, St. Louis, MO, 1994.  
MLA, Washington University in St. Louis, St. Louis, MO, 1992.  
B.Arch., University of Waterloo, Waterloo, Ontario, Canada, 1983  
B.Env.St., University of Waterloo, Waterloo, Ontario, Canada, 1981.

**Teaching  
Responsibilities**

Arch 304: Introduction to Design Studio II  
Arch 350: Architecture of the Ancient World  
Arch 498: Metropolis: Imaging/Imagining the Modern City  
Arch 498: Architecture and Gender  
Arch 559: American Utilitarian Architecture

**Selected Academic  
Experience**

Assistant Professor, University of Washington, 2005-present.  
Lecturer, Art Department, Western Washington University  
Bellingham, WA, 2003-2004.  
Instructor, Department of Art History, University of British Columbia, Vancouver, BC,  
2002-2003.

**Main Areas of  
Research &  
Scholarship**

19th and 20th Century Architecture  
American Art and Architecture  
The Modern City in Representation  
Industrial and Utilitarian Architecture

**Selected Publications**

"Department Stores" in *Encyclopedia of New England Culture*, Burt Feintuch & David  
H. Watters, editors, (New Haven and London: Yale University Press, 2005, 848-9

**Selected Academic  
and Public Service**

Financial Aid Committee, University of Washington, 2005-present.

**Selected Awards &  
Honors**

2002 Henry Luce Foundation American Art Dissertation Research Award  
National Dissertation Fellowship in American Art, Henry Luce  
Foundation/American Council of Learned Societies, 1999-2000

**Selected Papers and  
Presentations**

"Shopping At 'Home': Wanamaker's House Palatial," Society of Architectural Historians  
Annual Conference, Denver, CO April 23-27, 2003.  
"The Girl Behind the Counter: Selling in Still & Moving Pictures," College Art Association  
Annual Conference, Philadelphia, PA, February 20-23, 2002.

**KATHRYN MERLINO**  
**Assistant Professor, Departments of Architecture**

<b>Degrees</b>	Master of Architecture, University of Virginia, 1999 Master of Architectural History, University of Virginia, 1999 Bachelor of Arts, Architectural Studies, University of Washington, 1995
<b>Teaching Responsibilities</b>	Arch 150: Appreciation of Architecture I Arch 151: Appreciation of Architecture II Arch 462: Spatial Composition in Architecture Architecture in Rome Program Graduate and Undergraduate design studios
<b>Selected Academic Experience</b>	Assistant Professor, University of Washington, 2005-present. Lecturer, University of Washington, 2000-2005. Rome Study Abroad Program: "Architecture, Politics and Literature" interdisciplinary program, University of Washington, September 2002. Co-founder of American Academy of Landscape Architecture, Auvergne, France. Chateaux de Vieux Bostz and Parentignat Lecturer/Studio Instructor
<b>Main Areas of Research &amp; Scholarship</b>	Preservation and history of vernacular sites Roman architecture European and early American architectural history Theories of preservation
<b>Selected Publications</b>	Steven Holl", <i>Encyclopedia of Twentieth Century Architecture</i> , R. Stephen Sennott, editor (Chicago: Fitzroy Dearborn, 2004). "Abandoned Paradigms: Lessons from the Modest and the Monumental" <i>Column 5</i> (student journal, Department of Architecture, University of Washington, 1998) "The First House: Myth, Paradigm and the Task of Architecture," by R.D. Dripps, in <i>ARCADE, The Journal for Architecture and Design in the Northwest</i> (September 1998). <i>Architecture and the (New)Public Sphere, Modulus 24: The Architectural Review at the University of Virginia, 1997-98. General Editor and Production editor for eleven article journal for the School of Architecture, 1998.</i>
<b>Selected Academic and Public Service</b>	Susie Barnes, Shorecrest High School, Job Shadow for Career Day for future architecture student. Bryan Ching, Everett High School, Mentor for Senior Project on a computer model for the Pantheon, Rome. Aaron Millman, Cascade High School, Mentor for Senior Project of a research paper on French Baroque Architecture, focusing on Versailles.
<b>Selected Awards &amp; Honors</b>	Graduation Speaker, Commencement May School of Architecture, University of Virginia, 1999. Honorable Mention, Virginia Society Prize State Competition Virginia State AIA Design Award, 1999. High Pass, Architectural History Comprehensive Examinations Department of Architectural History, School of Architecture, University of Virginia, 1999.
<b>Selected Papers and Presentations</b>	"Preservation of Vernacular Architecture," in <i>Architecture 590</i> , Fall Quarter 2005. "Baroque Architecture and the Counter-Reformation," <i>Italian 403</i> , University of Washington, Fall Quarter 2005. "The Authenticity of Layers: The Destruction of the Theater of Pompey" Paper presented to the Savannah Symposium of Architecture, Savannah, Georgia, 2001. "Architecture and the New European Union" <i>European Studies 200</i> , University of Washington, Seattle, 2000. "Contemplation and Celebration: Designing Architectural Education," School of Architecture Commencement, University of Virginia, Charlottesville, May 1999.

**KEN T. OSHIMA, Ph.D.**  
**Assistant Professor, Departments of Architecture**

<b>Degrees</b>	Ph.D. in Architecture (History & Theory), Columbia University, 2003. Master of Architecture, UC Berkeley, 1993. A.B., magna cum laude, Harvard College, 1988.
<b>Teaching Responsibilities</b>	Arch 301: Introduction to Architectural Design II Arch 441: Visions of the Japanese House Arch 453: Japanese Architecture Arch 498: Critical Practice in a Globalizing World Arch 500: Architectural Design Studio I
<b>Selected Academic Experience</b>	Assistant Professor, University of Washington, 2005-present. Lecturer, Columbia University, Graduate School of Architecture Planning and Preservation, 2001-03 Graduate Student Instructor, UC Berkeley, College of Environmental Design, 1992-93.
<b>Main Areas of Research &amp; Scholarship</b>	Modern Architecture Modern Urbanism Japanese Architecture
<b>Selected Publications</b>	"Ralph Erskine Londres, 1914- Drottningholm, 2005," <i>Architecture d'aujourd'hui</i> (May-Juin 2005). "Return of the Modern: The Museum of Modern Art, New York," <i>Shinkenchiku</i> (January 2005). "Exhibition Review: Metamorph Venice Biennale 2004," <i>Architecture + Urbanism (A+U)</i> , No. 410 (November 2004). Guest co-editor/author with Toshiko Kinoshita, "Visions of the Real: Modern Houses in the 20th Century Vol. I & II," <i>Architecture + Urbanism (A+U)</i> Special Issue. March, October 2000. Guest editor, "Antonin Raymond," Guest editor, <i>Japan Architect</i> , No. 33, Spring 1999. An Argentinean Architectural Promenade: Le Corbusier's Maison Curutchet and Amancio Williams' House over a Brook. (Exhibition Catalog) Tokyo: Gallery Taisei, 2000.
<b>Selected Academic and Public Service</b>	Conference organizer and session moderator, <i>Critical Practice in a Globalizing World. Part 1: Stranger in a Strange Land</i> . Symposium held at the University of Washington, October 27-28, 2006. With Peter Cohan, Nicole Huber, and Brian McLaren.
<b>Selected Awards &amp; Honors</b>	Robert and Lisa Sainsbury Postdoctoral Fellowship, Sainsbury Institute, London, 2004-5. Handa Postdoctoral Fellowship, Sainsbury Institute, London, 2003-4. Opler Emerging Scholar Fellowship, Society of Architectural Historians, 2005. Getty Grant, exhibition research for "Crafting a Modern World: the Architecture and Design of Antonin & Noémi Raymond," 2002-4. Shincho Fellowship, Tokyo University, 1998-2000. Fulbright Grant, Tokyo Institute of Technology, 1994-1995.
<b>Selected Papers and Presentations</b>	"Architectural Dialogues: F.L. Wright and Antonin Raymond/Chicago & Tokyo," College Art Association Annual Meeting, Boston, February 2006. "Characters of Concrete," Graduate School of Design, Harvard University, February 2006. "Perspectives on Global/Local Architecture," Meiji University, Tokyo, December 2005. "Architecture 2005," Tohoku University, Sendai, December 2005. "Rhetoric and Realities: The Construction of Reader's Digest Building in Postwar Japan," The Americanization of Postwar Architecture, University of Toronto, December 2005. "Media and Modernity in Interwar Architecture: The Work of Yamada Mamoru," International Conference "The Space Between: The Cartographic Imagination of Japanese Modernism," U.C. Berkeley, October 2005.

**JENNIFER DEE**  
**Lecturer, Departments of Architecture**

<b>Degrees</b>	BA summa cum laude, Hobart and William Smith College, Geneva, NY, 1972. M.Arch., University of Washington, 1984.
<b>Teaching Responsibilities</b>	Arch 301: Introduction to Architectural Design II Arch 302: Introduction to Architectural Design III Arch 303: Introduction to Design Studio I Arch 360: Introduction to Architectural Theory Arch 460: Design Theory and Analysis Arch 560: Graduate Seminar on Architectural Theories Architecture in Rome Program Architecture in Scandinavia Program
<b>Selected Academic Experience</b>	Lecturer, University of Washington, 1985-present.
<b>Main Areas of Research &amp; Scholarship</b>	Modern architectural theory Contemporary architecture and theory Monuments and memory
<b>Selected Academic and Public Service</b>	Graduate admissions committee (3 year program), 2001-present. Faculty coordinator and editor, <u>Column 5</u> magazine. Coordinator, 300 level design studios, 2001-present.
<b>Selected Awards &amp; Honors</b>	Lionel "Spike" Pries Distinguished Professor Award, College of Architecture and Urban Planning, University of Washington, 1997.

**DAVID STRAUSS, Ph.D.**  
**Affiliate Assistant Professor, Departments of Architecture**

**Degrees**

Ph.D. in Architecture, University of Pennsylvania, 1999.  
M.Sc. in Architecture, University of Pennsylvania, 1992.  
M.Arch. University of Washington, 1985.  
B.A. in Design of the Environment, University of Pennsylvania, 1979.

**Teaching  
Responsibilities**

Arch 460: Design Theory and Analysis  
Arch 500: Architectural Design Studio I  
Architecture in Rome Program

**Selected Academic  
Experience**

Affiliate Assistant Professor, University of Washington, 2002-present.  
Lecturer, University of Washington, 1991-2002.  
Teaching Assistant, University of Pennsylvania, 1991.  
Graduate Student Assistant, University of Washington, 1982-83.

**Main Areas of  
Research &  
Scholarship**

History and Theory of Architecture  
Architecture and Urbanism  
Italian Renaissance Architecture

**Selected Publications**

"Scale," *Column 5*. Journal of the University of Washington College of Architecture, 1995.  
"Building Maintenance," *Column 5*. Journal of the University of Washington College of Architecture, 1993.  
Everett Public Library, *Architecture Magazine*, December 1992.

**Selected Academic  
and Public Service**

*Pioneer Square Preservation Board*, term beginning May 2002.

**Selected Awards &  
Honors**

AIA/ALA Award. *Suzzallo Library*. 2003.  
AIA Civic Design Award. *Suzzallo Library*. 2002.  
Penfield Scholarship. Graduate School of Arts and Sciences. University of Pennsylvania, 1993. For dissertation research at the *Istituto di Studi Rinascimentali*, Ferrara, Italy.  
Seattle Chapter AIA Award of Merit. *Everett Public Library Addition*. 1991.  
Seattle Chapter AIA Award of Merit. *Abraham Residence*. 1988.

**Selected Papers and  
Presentations**

*Suzzallo Library Renovation*. Lecture to Historic Seattle PDA. January 2003.  
Dream and Spectacle in the Project of 15<sup>th</sup> Century Ferrara and the Piazza Nuova.  
Lecture at the University of British Columbia, Vancouver. January 1995.  
*City Planning in 15<sup>th</sup> Century Northern Italy*. Seminar at the University of British Columbia, Vancouver. January 1995.

**Appendix H: HEC Board summary**

**a. Unit authorized to offer degrees:**

Department of Architecture

**b. College:**

College of Architecture and Urban Planning

**c. Exact titles of degrees offered:**

Master of Science in Architecture (under review)

Other degrees: Bachelor of Arts in Architecture, Master of Architecture

**d. Last reviewed:**

Never (degree authorized in 2001)

**e. Brief description of the field and its history at the University of Washington**

The Master of Science is a nationally recognized post-professional degree in architecture, and is commonly offered by Colleges and Universities that have substantial research programs beyond the professional degree. It provides architecture graduates with the opportunity to continue their education. Although some students take the M.S. as a terminal degree, many use it to advance their research profile in order to apply for Ph.D. studies. This degree has arisen out of the need for more advanced knowledge of architecture. Until recently it was thought that the architectural education that an architect received while earning his or her professional degree was a sufficient basis for an architectural career. However, in the last two decades, with the rapid growth of knowledge and the quickening pace of technological change, post-professional education in architecture has become increasingly common.

The Department of Architecture at the University of Washington was founded in 1914, the nineteenth such department in the United States and one of the first on the west coast. The Master of Architecture program remains the department's central offering. It is a professional program accredited by the National Architectural Accrediting Board, Inc. (NAAB), which prepares graduates for entry-level positions in professional architectural practice. The M.S. in Architecture Program was approved by the Higher Education Coordinating (HEC) Board of the State of Washington in July of 2001 as an umbrella degree with specific areas of research concentration. The initial research concentration was in Design Computing, with a second in History and Theory approved by the Graduate School of the University of Washington in May of 2006.

**f. Documentation of continuing need for your program.**

The need for this degree, as documented in the 2001 application to create it, remains substantially unchanged. To summarize: (1) professional education is increasingly turning to post-professional advanced education to provide specialized and updated knowledge; (2) the education necessary to pursue teaching positions in schools of architecture is rising, making advanced post-professional study a component of most academic career trajectories; and (3) individuals with a combination of design talent and the advanced research and technical skills such as those cultivated in the design computing stream of the MS represent a rare combination in certain areas of the software and technology industries.

**g. Assessment information relating to student learning outcomes and program effectiveness**

As explained elsewhere, the MS-degree has here-to-fore consisted of just the *design computing* stream. Associated with this study stream has been the Design Machine Group, a collaborative research studio open to students from any department or degree program. Without the MS students at the core of this group, it would be much weaker. Thus, one assessment of program effectiveness might be the number of students attracted to this group from other degree streams. In addition to the M.Arch program, students have joined from industrial engineering, computer science, landscape architecture, and urban design.

Another measure of effectiveness might be students going on to further studies (33%), or entering related jobs in the private sector (67%). Finally, it might be noted that of the seven students who have entered the program to date, all but one have completed or are expected to complete it.

**h. Grid**

	2003-2004	2004-2005	2005-2006	2006-2007
Number of undergrads majors graduating from the unit	See note	See note	See note	See note
Number of masters degrees granted	4	2	0	4 (est)
Number of doctoral degrees granted.	See note	See note	See note	See note

**Note:** This is a five-year review of just the MS degree, not the entire department (unit), so there are no undergraduate or doctoral degrees.

**i. Plans to improve the quality and effectiveness of the program. What is the process by which your unit sets its overall goals? How often are departmental goals reviewed and reassessed? In what ways do you anticipate the goals of your program will change in the next ten years? Describe your goals for the next 5-7 years. Describe areas and strategies for developing your potential for academic and pedagogical leadership in your field. How could the College and/or university assist you in achieving your goals, especially through means other than increased budgets?**

The department undertakes regular strategic planning, through which it sets priorities and direction for coming years. This plan is revisited, revised and updated about every five years. The most recent strategic plan was completed in 2003. While launch of the Master of Science degree was completed prior to the latest planning cycle, the current plan supports the degree.

**Goals for the next 5-7 years**

Rebuilding the *design computing* stream is one of the central goals for the next few years. This will involve completing the current search for faculty, conducting an internal assessment of directions and opportunity, and developing an active outreach effort to attract quality students in greater numbers.

Launching the study stream in *history & theory* will require raising the awareness of current students and regional practitioners regarding the availability of the stream and aligning administrative procedures with those of the *design computing* stream. We have already begun work on a brochure that can be distributed to other schools, in which both current study streams are described. The goal for 5-7 years forward is to accomplish these tasks while enrolling 3-5 students on an annual basis.



The final major goal for the 5-7 year time-frame is proposing and hopefully launching a stream in the area of *sustainability*, an area of intense public and professional interest involving policy, material selection, material configuration, technology, and basic design strategies. The goal for 5-7 years forward is to bring the stream into existence and begin the process of building visibility and recognition.

***Areas of future development***

There are two new areas of potential development that have become apparent in recent years: building information modeling as a component of integrated design practice, and digitally-enabled fabrication. While not necessarily linked, both reflect the increasing influence of digital technology in the practice and production of buildings. Digital fabrication is challenging at a theoretical level because it undercuts assumptions about form. It is challenging at the technical level because it requires a new set of skills. And it is challenging to the institution because it is expensive and rapidly changing.

Building information modeling (BIM) is a practice which is changing the primary product of design from drawings to information. This change challenges the traditional divisions and sequencing of architectural contracting (SD, DD, CD, CA), promises to change the financial structure of the industry, and challenges the profession's leadership in the building production process. Study of these changes, of the software used to practice BIM, of supporting analysis, simulation and synthesis tools, and of "missing elements" of the new technology, represent a rich and important vein for research.

***Opportunities for institutional support***

Aside from regular budgets, institutional support can be an important enabler of new initiatives. One possibility which has been emerging is that of a centrally coordinated digital fabrication facility, open to students in various related departments (industrial design, art, mechanical engineering, and architecture). Analogous to the role played by Computing & Communications, such a facility would address the shared needs for digital fabrication across campus, through rapid prototyping, laser cutting, computer-numerically controlled (CNC) devices and similar technologies. Where no one unit can afford to do all this alone, and redundancy amongst units is wasteful of limited resources, a central facility, paid for from a combination of user fees and student tech fees, would be possible.