

Curriculum Vitae, January 2012

JONATHAN OCHSHORN

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Education

City College of New York, 1985 – 1986
M. Urban Design/ 1986

Massachusetts Institute of Technology, 1975 – 1976
M.S. program, Structural Engineering (no degree conferred)

Cornell University, 1970 – 1975
B. Arch./ 1975

Academic Experience

Professor, Department of Architecture, Cornell University, 2011 – present

Associate Professor, Department of Architecture, Cornell University, 1996-2011

Associate Professor, Department of Architecture, The Chinese University of Hong Kong, 1997 – 1998 (sabbatical leave)

Assistant Professor, Department of Architecture, Cornell University, 1988-1996

Adjunct Assistant Professor, Department of Architecture, City College of New York, 1980 – 1987 (except Spring 1983, Substitute Assistant Professor, full-time)

Professional Registration

Registered Architect, New York State, since 1979 (#14264)

Professional Membership

International Code Council (ICC): 2010 – present

Building Technology Educators' Society (BTES): 2008 – present

American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. (ASHRAE): 2006 – present

Construction Specifications Institute (CSI): 1990 – present

Honors and Awards

Fulbright Senior Specialist Award: conducted workshop on structural behavior at Chiang Mai University, Thailand, August, 2001

Numerous full fellowships to attend various professional workshops and courses, including the University Professors' Masonry Workshop (2007), and the National Emergency Training Center, Multihazard Building Design Summer Institute (1995, 1996, 1999).

"Certificate of Appreciation," Mind-Builders Creative Arts Center: for supporting their efforts to provide professional arts and education services to the Bronx community, April, 1985

"Building Brick Award," New York Urban League (Manhattan Borough Board): for activities supporting the renovation of the League's Harlem office, January, 1985

Exhibitions

Milstein Hall construction videos, "OMA/Progress," Barbican Art Gallery, London, England, Oct. 6, 2011 – Feb. 19, 2012

Faculty show: "Cause and Effect," Hartell Gallery, Cornell University, Feb. 14-25, 2005

Papers and Publications

1. Peer-reviewed papers and publications

Jonathan Ochshorn, "Minimizing Heat Loss through Tapered Insulation," *Construction Specifier* (official publication of the Construction Specifications Institute), Vol. 64 No. 8 (Aug. 2011), 48-53

Jonathan Ochshorn, "Determining the Average R-value of Tapered Insulation," Technical paper, *ASHRAE Transactions*, American Society of Heating, Refrigerating and Air-Conditioning Engineers, Vol 117 Issue 1, 2011, pp. 859-867

Jonathan Ochshorn, "Approximate Derivation of Critical Buckling Load," Technical Note, American Society of Civil Engineers *Journal of Architectural Engineering* 15, no. 4, 139-141 (Dec. 2009)

Jonathan Ochshorn, "What Sustainability Sustains," Presented at the *Hawaii Conference on Arts & Humanities*, Honolulu, Hawaii, January, 2008. Abstract published in Conference Proceedings, ISSN# 1541-5899, pp. 4024-4025

Jonathan Ochshorn, "Designing Building Failures" *Proceedings of the 2006 Building Technology Educators' Symposium*, University of Maryland, College Park, August, 2006.

Jonathan Ochshorn, "Guidelines for the Use of Collar Beams," *Journal of Architectural Engineering*, American Society of Civil Engineers, Vol.3, No.1, Mar. 1997

Jonathan Ochshorn, "Contradictions in the Use of Collar Beams," *Journal of Architectural Engineering*, American Society of Civil Engineers, Vol.2, No.1, Mar. 1996

Jonathan Ochshorn, "Disembodied Technology and Design," *Body, Technology, and Design* (Washington, DC: ACSA Press, 1993), proceedings of the 11th Annual ACSA Technology Conference, Phoenix, Arizona, Jan. 28-30, 1993

Jonathan Ochshorn, "On the Disappearance of Monolithic Walls: Meditations on a Brick," *Making Environments: Technology and Design*, (Washington, DC: ACSA Press, 1992), proceedings of the 1992 ACSA Technology Conference, San Diego, CA, Feb. 6-8, 1992

Jonathan Ochshorn, "Separating Science from Architecture: Why Technology is Taught Outside the Design Studio," *The Architecture of the In-Between: Proceedings of the 78th Annual Meeting of the ACSA*, 1990, San Francisco, CA, March 17-20, 1990 [originally published in 1989 (see below), selected for presentation and publication at national conference]

Jonathan Ochshorn, "Teaching Technology: What Do Architects Need to Know About Structures?," *On Architecture, the City and Technology* (Stoneham, MA: Butterworth Publishers, 1991), selected articles from the 1990 ACSA Technology Conference, Los Angeles, CA, February 15-18, 1990

Jonathan Ochshorn, "Separating Science from Architecture: Why Technology is Taught Outside the Design Studio," *Defining Architecture: An Autonomous or Interdisciplinary Endeavor? Proceedings of the 1989 ACSA East Central Regional Conference*, Ann Arbor, MI, October 19-21, 1989

Jonathan Ochshorn, "Structure vs. the Expression of Structure," *Proceedings of the Symposium on Architecture and ACSA Technology Conference*, 1989, Baton Rouge, LA, February 2-4, 1989

2. Books

Jonathan Ochshorn, *Structural Elements for Architects and Builders*, Butterworth-Heinemann (an imprint of Elsevier Press), Nov. 2009

3. Chapters in books

Jonathan Ochshorn, "Structural design - steel" chapter, *Time-Saver Standards for Architectural Design Data*, 8th edition, McGraw-Hill, 2005

Jonathan Ochshorn, "Structural design - steel" chapter, *Time-Saver Standards for Architectural Design Data*, 7th edition, McGraw-Hill, 1997

4. Published Essays

Jonathan Ochshorn, "Brick," "Curtain Wall," "Steel," "Stone," and "Truss Systems" essays, *Encyclopedia of Twentieth Century Architecture*, Routledge, 2003.

Jonathan Ochshorn, "Overcoming Ambivalence" essay appears in abridged form in *Association Vol. I / Fall 05*, a student publication of the College of Architecture, Art & Planning, Cornell University (full version can be found online at: <http://www.ochshorndesign.com/cornell/writings/ambivalence.html>)

Jonathan Ochshorn, "Technology in the Design Studio," *Cornell Journal of Architecture*, Vol. 6, 1999

Peer-reviewed Conference Session Topics

Chair of "Design Abstraction and Building Construction" session for 2009 Annual Meeting of the Association of Collegiate Schools of Architecture (ACSA), Portland, Oregon: session topic selected through blind, peer-reviewed process. March 2009.

Publications about my work or teaching

Sherrie Negrea, "Milstein Hall Site is a Teaching Lab for Architecture Students," *Cornell University ChronicleOnline*, April 28, 2010 (accessed online 4/30/10 at: <http://www.news.cornell.edu/stories/April10/MilsteinAAPIlab.html>)

Sherrie Negrea, "Construction Site as Lab: Faculty Uses Paul Milstein Hall Project in Classes," Cornell University AAP News, March 19, 2010 (accessed online 4/7/10 at: http://aap.cornell.edu/milstein/news/newsitem.cfm?customel_datapageid_2892=373396)

"Designing Your Own Home," *Stainless Steel World News*, KCI Publishing BV, Netherlands, June 2007, p.26 (article on stainless steel stair truss I designed and engineered for a residential addition completed in 2005).

Summary of Professional Experience (selected projects listed at end of C.V.)

Jonathan Ochshorn, 1990 – present
Private Practice, Architect

John Ash A.I.A. Assoc., 1987 – 1988
Architecture and Urban Design
Project Manager

City College Architectural Center, 1984 – 1987
Community Design Center
Associate Director

Battaglia-Seckler, Architects, 1982 – 1983
Project Architect

Pomeroy, Lebduska Assoc., 1978 – 1980
Architects and Planners
Project Architect/ draftsman

Poor, Swanke, Hayden & Connell, Architects, 1976 – 1978
Draftsman

Research Positions

Research Assistant, Seismic Design Decision Analysis
Department of Civil Engineering, Massachusetts Institute of Technology, 1975 – 1976

Courses Taught: Cornell University

Design

Collaborated in teaching 3rd- and 4th-year design studios (1991, 2000); taught 2nd-year studio (Fall 1989); numerous B.Arch. and post-professional M.Arch. II thesis committee assignments.

Construction

ARCH 2602/5602, *Bldg. Technology, Materials and Methods* (1989-present)
ARCH 4605 *Sustainable Architecture: The Science and Politics of Green Building* (2010 – 2011)
ARCH 4605 *Case Studies in Comprehensive Design* (2008)
ARCH 367/667 *Working Drawings* (1992-93, 99, 02, 04, 05, 07)
ARCH 465 *Fire Safety* (2006)
ARCH 465 *Building Envelope Design* (1995, 2000)

Environmental Controls

ARCH 261, *Site Planning* (1989-93)

Structures

ARCH 263, *Structural Concepts — Statics; Strength of Materials* (summer 1989 – 90, 93, 96-97, 99-00; Spr/91; Fall/91-92)

ARCH 2604/5604 *Structural Elements — Steel, Concrete, Timber* (1988-present)

ARCH 363 *Structural Systems II — Reinforced Concrete* (summer 1992)

ARCH 366/666 *Tectonic Articulation of Structure* (1998, 01, 03, 04)

Misc.

ARCH 5203 *Curricular Practical Training* (2002 - present). I designed and implemented this course intended for foreign students who obtain summer internships

Special Committee minor member for masters student in Design and Environmental Analysis, 2007-2008; in Computer Graphics, 1997 – 1998.

Courses Taught: Chinese University of Hong Kong (1997-98)**Design**

ARC 3010, ARC 3020, *3rd-year design*

Structures

ARC 2410, *Building Structures and Construction*

ARC 5401, *The Tectonic Articulation of Structure*

Courses Taught: C.C.N.Y (1980-87)**Design**

Taught numerous 1st- and 2nd-year design studios (coordinated 1st-year design); B.Arch. thesis.

Structures

AES 243, *Statics*

AES 354, *Strength of Materials*

AES 364, *Wood and Steel*

AES 474, *Reinforced Concrete*

Drawing

AES 111, *Graphic Communication Workshop*

Invited Lectures, Panels, Symposia

Co-Moderator, The Hans and Roger Strauch Symposium on Sustainable Design: "Sustaining Sustainability," Cornell University, Ithaca, NY, February 3-4, 2012

Panelist (respondent) for "Contemptible Details" session, 2009 Annual Meeting of the Association of Collegiate Schools of Architecture (ACSA), Portland, Oregon, March 2009.

"Structural Systems in Architecture" and "Construction Systems in Architecture," Cornell Summer Introduction to Architecture Program, Ithaca, NY (numerous years).

"The Construction of Buildings," ARCH 132: Introduction to Architecture, Department of Architecture, Cornell University (course open to non-departmental students only), March 27, 2001 (also given, ARCH 131 Introduction to Architecture, Fall 2003);

Four lectures given for ARCH 132: Introduction to Architecture, Department of Architecture, Cornell University (course open to non-departmental students only): "The Idea of Structure," "The Expression of Structure," "Construction Systems and their Integration," and "The Disentanglement of Structure from Enclosure," 1994-1997

"Architecture and Urbanism in Hong Kong: A Visitor's Observations," Chinese Culture Society lecture series, Cornell University, Oct. 22, 2000

Two sessions prepared for ARCH 638: Postmodern critical texts, Department of Architecture, Cornell University (graduate seminar): "Introduction to tectonics (economic and cultural preconditions);" and "Critique of tectonics," Fall 1998, Fall 1999, Fall 2003

"Experiencing American Sprawl: The Architecture of the Highway, Suburb, Strip, and 'Edge City'," The Chinese University of Hong Kong, GEE 201 Y (Experiencing Architecture 'general education course'), March 19, 1998

"Ordinary Structures," The Chinese University of Hong Kong, 5th-year thesis class, Feb. 21, 1998

"Anti-tectonics," University of Maryland School of Architecture Fall 1996 lecture series, Oct. 30, 1966 (My participation as a guest critic in the University of Maryland's design-technology integration experiment is cited in: Carl Bovill, Amy E. Gardener, and Gregory Wiedmann, "Intention, Form, and Execution: A Comprehensive Studio Curriculum," *Journal of Architectural Education*, ACSA, 1997, pp.84-91)

"The City College Architectural Center," Cooper-Hewitt Tour of Harlem, New York, NY, 1986

"Advocacy and Community Design Centers," Urban Reconstruction graduate elective (Prof. Lance Brown), City College Dept. of Architecture, New York, NY, 1985 – 1986

Institutional Service: Department of Architecture (and Graduate Field)

Director of Undergraduate Studies, 2010 – 2011

Associate Chair, Department of Architecture, Fall 2001 – 2004.

Director of Graduate Studies, Field of Architecture, 1996 – 2004 (on leave 1997-98, Spring 2000)

Undergraduate Advisor, Department of Architecture, 1991 – present

Chair, various departmental committees: Undergraduate Curriculum (2010 – 2011); Governance (1998 – 2001), Undergraduate Admissions (1995 – 1996), Awards, Medals & Prizes (1995 – 1997)

Chair, various departmental search committees: Environmental Systems (1990 – 1991, 1994 – 1997; 1999 – 2001, 2006 – 2007), Computer Graphics (2002 – 2003)

Department Faculty Secretary (1992 – 1994, 1996 – 1997, 2006 – 2007)

Member of many departmental committees, too numerous to itemize.

Institutional Service: College of Architecture, Art & Planning

Member, AAP Executive Committee, 2010 – 2011

Member, AAP Academic Policy Committee, 2010 – 2011

Department faculty representative on College Curriculum Committee, 2008 – 2009

Departmental faculty representative on College Eidlitz Fellowship Committee, 2006

Harassment Advisor, 1998 – present
Member, various College committees

Institutional Service: *University Committees, Projects, Task Forces*

Chair, University Lectures Committee, 2010 – 2011
Member, University Lectures Committee, 2007 – 2011
Member, Advisory Committee on Sanctions, 2008
Member, University Hearing and Review Boards, 2004-present
Chair, University Committee on Academic Freedom and Professional Status of the Faculty
(2003 – 04; member of committee 2001 – 2004)
Chair, University Task Force on Suspension Policy (2003)
Participant, Freshman Reading Project, Cornell University (2001 – 2003)
Member, University Faculty Senate (1998 – 2002)
Member, University Task Force on Hazing (2001)
Participant, Academic Leadership Series, Cornell University (May, 1999)
Member, University Conflicts Committee (1997 – 1998)
Member, University Campus Planning Committee (1996 – 1998)
Member, Design Review Subcommittee (1996 – 1998)
Member, University Hearing Board (1990 – 1994)
Participant, Human Resources and Employee Benefits Advisory Committee meeting to review
"managed care" health care option (1993)

Editorial and Advisory Boards, Program Review, Competition Juries

Juror for the 11th annual ACSA/AISC Student Design Competition (2011)

External program reviewer, M. Arch. degree program, University of Cincinnati (2008)

Advisory board, *Fundamentals of Building Construction*, John Wiley & Sons, publisher (2007)

Advisory board, *Architectural Graphic Standards*, Student Edition, John Wiley & Sons, publisher
(2006 – 2007)

Fulbright Senior Specialist Program Urban Planning 2 Peer Review Committee (2006 – 2008)

Paper/Book/Research Proposal Reviewer

Elsevier proposal review: sustainable buildings book (2008)

Elsevier (Science and Technology Books) proposal review: tall buildings text (2008)

Elsevier (Science and Technology Books) proposal review: engineering programming text (2008)

Cambridge University Press: review of structural text (2007)

External reviewer for Research Grants Council (RGC) of Hong Kong (2007)

John Wiley & Sons: review of construction text in anticipation of revised edition (2006)

John Wiley & Sons proposal review: structural text and interactive software (2005)

2000 ACSA International Conference in Hong Kong

Paper (peer) reviewer for session on "Identity and Trans-Cultural Practice" (1999)

Cornell Journal of Architecture

Paper (peer) reviewer for submitted manuscripts (1998)

Journal of Architectural Engineering

Paper (peer) reviewer for submitted manuscript (1996)

Interdisciplinary Interactions

Piano accompanist for dance technique and improvisation classes, Dept. of Theatre, Film & Dance, with J. Chu, J. Kovar, J. Morgenroth, J. Self, B. Suber, and others (1988 – present); accompanist for special "master classes" at Cornell: Stephen Petronio, Alvin Ailey (2008); accompanist for Fall Dance Theater Concert ("Zig Zag") at Cornell (2008).

Community Service

Lecture on architecture to Architectural Drawing class, Watkins Glen High School (2010)

Coordinator (with Prof. Richardson) of work-study design project for renovation and expansion of Town Hall, Hector, New York (1999)

Awarded two grants from Cornell's "Faculty Fellows in Service" program (with Prof. Richardson) to involve undergraduate architecture students in preliminary design studies for local not-for-profit community groups. Preliminary design studies for both projects, one for the Sciencenter in Ithaca (1995), and one for the Spencer Emergency Squad (1995), have been completed.

Research

iPad application designed by *Architactile* references and uses some of the output from my online "allowable area" calculator. "Architactile Inception for Apple iPad is the world's first application designed specifically to accelerate early project definition." See: <http://architactile.com/inception> (2011).

Development of web-based (online) calculators for structural engineering and building technology applications: linked from <http://courses.cit.cornell.edu/arch264/calculators/> and <http://courses.cit.cornell.edu/arch262/calculators/> (ongoing project, since 2008)

Rafter Span and Fastening Graphs for Variable Roof Angles and Multiple Loading Scenarios: development of structural design strategies and software, supported by the Dept. of Architecture, College of Architecture, Art & Planning, and the Program of Computer Graphics at Cornell (1995)

Project to design and create physical models to demonstrate various aspects of structural behavior (with Prof. Mark Cruvellier), College of Architecture, Art & Planning (1993)

Summer Support from Program of Computer Graphics and College of Architecture, Art & Planning to develop interactive computer software for the graphic display of combined stresses on beams (1991)

New Faculty Equipment Grant (with Professor Hall), Cornell University: "Equipment Proposal to Support Research in Computer Applications to Architectural Technology and Design" (1989)

Architectural Practice: Selected Projects

Jonathan Ochshorn, Architect, Ithaca, NY. Dates: 1990-present

Title: Private Practice

Web: www.ochshornDesign.com

Boathouse Repair: Ithaca, NY

Project date: 2006

Contribution: consultation, construction details

Status: Complete

Ochshorn/Schwartz Rainwater Harvesting: Ithaca, NY

Project date: 2006

Contribution: 100% design, 100% drawings, 100% construction

Status: Complete

Ochshorn/Schwartz Addition to residence: Ithaca, NY

Project date: 2004 – 2005

Contribution: 100% design, 100% drawings, 75% construction

Status: Complete

Searsburg Road Residence: Alterations and Additions, Trumansburg, NY

Project date: 2000 – 2001

Contribution: Consulting on structural alterations and construction detailing

Status: Complete

Design-build Deck Project (1000 sq. ft.): Added to residence in Danby, NY

Project date: 2000

Contribution: 100% design, 100% drawings, construction help and advice

Status: Complete

Residence: Brownstone Renovation, Brooklyn, NY

Project date: 1995

Contribution: 50% design, 50% drawings and specs.

Status: Complete

Residence: Roof failure analysis and redesign, New Rochelle, NY

Project date: 1993

Contribution: 100% analysis, design, drawings and specs.

Status: Complete

Residence: New Construction, Danby, NY

Project date: 1992

Contribution: 100% design, 100% drawings

Status: Completed 1995

Residence: Renovation, Ithaca, NY

Project date: 1991

Contribution: 50% design, 100% drawings, 95% construction

Status: Complete

Residence: Renovation and Addition, Cayuga Heights, NY

Project date: 1990

Contribution: 100% design, drawings and specifications
Status: Complete

John Ash A.I.A. Associates, Architecture, Urban Design. Dates: 1987-1988

Title: Project Manager

Corporate Park Plaza, Retail Shop Building, Irvine, CA

Project date: 1987

Contribution: 100% drawings and specifications; project management

Status: Complete

Irvine Home & Garden Center, Tenant Improvements, Irvine, CA

Project date: 1987

Contribution: 100% design and contract documents (Lusk-Serengeti); Project Management (all T.I.'s, including Pier 1 Imports, Village Patio Shop, etc.)

Status: Complete

Battaglia-Seckler Architects. Dates: 1982-1983

Title: Project Architect

Renovation of Merchant Marine Dormitories (Phase II), Kings Point, NY

Project date: 1982

Contribution: 90% Contract Documents; 100% cost estimates

Status: Complete

Pomeroy, Lebduška Assoc., Architects and Planners. Dates: 1978-1980

Title: Project Architect/Draftsman

Home Box Office, New Headquarters Building, Rockaway, NJ

Project date: 1980

Contribution: 50% Design; 50% presentation drawings

Status: schematics completed; project site abandoned

Trinity Church Bridge, Planning Study, New York, NY

Project date: 1980

Contribution: 100% written report; 100% drawings

Status: In abeyance

Apartment Renovation, The Dakota, New York, NY

Project date: 1980

Contribution: 75% design; 100% contract documents and specifications

Status: Complete

Con Edison Conservation Center, Chrysler Building, New York, NY

Project date: 1979

Contribution: 10% design; 50% contract documents; 50% supervision

Status: Complete

Trinity Church Parish Hall, New York, NY

Project date: 1978

Contribution: 25% design; 50% contract documents; 50% supervision

Status: Complete

Poor, Swanke, Hayden & Connell, Architects. Dates: 1976-1978

Title: Draftsman

Barnes Group, New Headquarters Building, Bristol, CT
Project date: 1978
Contribution: 50% presentation drawings; 20% contract documents
Status: Complete

Standard Oil of Ohio Master Plan, Cleveland, OH
Project date: 1977
Contribution: Perspective renderings; design studies
Status: Unknown

Northwestern Mutual Life Insurance, Renovation and Addition, Milwaukee, WI
Project date: 1976
Contribution: 50% presentation drawings; 50% design development drawings
Status: Complete

**Community Design:
Selected Projects**

**City College Architectural Center, City College of New York. Dates: 1984-1987
Title: Associate Director**

As Associate Director, I had primary responsibility for the operation of the Community Design Center within the Department of Architecture at City College of New York. These responsibilities included overseeing more than 50 projects; supervising student interns; selecting Clients; reviewing design proposals; preparing budgets and successful grant applications; and, in general, administering the Center's day to day operation.

The Architectural Center provided feasibility studies to community-based groups, primarily for the rehabilitation of housing, the renovation and expansion of community facilities and the design of shelters for the homeless. Selected projects, completed under my supervision, include the following:

- 1986 Multi-use Dance and Studio Space
Boys Harbor, Inc., New York, NY
Construction cost estimate: \$80,600
- 1986 Rehab: Transitional Housing for Battered Women
Sanctuary for Families, Bronx, NY
Construction cost estimate: \$3,500,000
- 1986 Rehab: Housing
Youth Action Restoration Crew, New York, NY
Construction cost estimate: \$190,650
- 1985 Design: Mental Health Clinic Renovation and Expansion
Harlem Interfaith Counseling Service, New York, NY
Construction cost estimate: \$15,600
- 1985 Adaptive Re-use: Church with Community Services
Fountain of Love Church, Bronx, NY
Construction cost estimate: \$358,800

- 1985 Neighborhood Survey: Washington Heights/Harlem
The Community League of West 159 Street, Inc.
- 1985 Rehab: NYS Homeless Housing Assistance Program
The Community League of West 159 Street, Inc., New York, NY
Construction cost estimate: \$1,063,600
- 1984 Rehab: Urban Homesteading Program
East Harlem Homesteaders Program, New York, NY
Construction cost estimate: \$388,300