

# PROGRAM BOOK

# OFFSITE

THEORY AND PRACTICE OF  
ARCHITECTURAL PRODUCTION

2012 ACSA FALL CONFERENCE  
+ MODULAR BUILDING INSTITUTE  
REGIONAL INDUSTRY MEETING

SEPTEMBER 27-29 2012  
AT TEMPLE UNIVERSITY  
IN PHILADELPHIA PA



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IMPORTANT ADDRESSES

**Westin Philadelphia** (Thursday & Friday Morning)  
99 South 17th Street at Liberty Place  
Philadelphia, PA 19103

**Temple University** (Friday Afternoon & Saturday)  
Tyler School of Art  
2001 North 13th Street  
Philadelphia, PA 19122

**OFFSITE: THEORY AND PRACTICE OF  
ARCHITECTURAL PRODUCTION**

Prefabrication is said to be the oldest new idea in construction, so it is no wonder that it continues to pervade as an ideal. The construction industry is fraught with litigation, inefficiency and waste. The design and construction of buildings are separate acts that are delineated contractually and legally identified and observed. Arguably, the divide between design and construction has resulted in increased schedule delays and cost, and a diminished building quality and sustainability because the conception (architecture), optimization (engineering) and production (construction) are not integrated. In response to this inefficiency, prefabrication and modularization emerge and remerge as effective methods of efficient production. McGraw-Hill Construction's latest SmartMarket Report, "Prefabrication and Modularization: Increasing Productivity in the Construction Industry," demonstrates how prefab architecture is yielding improved project schedules, decreased costs, and reductions in construction waste.

While the basic concepts of prefabrication—labor, material and cost efficiencies, shortened construction schedules, and the possibility of greater quality control—are well understood, architects often lack the fundamental knowledge necessary to determine where and when fabrication is appropriate. Architects must understand the range of choices, opportunities and challenges associated with prefabrication to use it effectively. Effective use of off-site construction requires strategic thinking about the design process. Specifically, architects must consider production thinking as a value-added measure to design, embracing notions of product theory and product design in the conception phase of development. In addition, industry professionals, especially many of those in the modular building industry, are ignorant of advances in parametric modeling and digital fabrication, with the potential to give more agency to building form and performance. This ACSA Fall 2012 Conference in conjunction with the Modular Building Institute Regional Industry Meeting brings together allied professionals, academics, and builders/fabricators to present current theory and practice at all scales of designing and building offsite.

**CO-CHAIRS**

Ryan E. Smith, University of Utah  
John Quale, University of Virginia  
Rashida Ng, Temple University

## INFORMATION

### **SPONSORS**

The Association of Collegiate Schools of Architecture is grateful for the support and assistance of Temple University, Tyler School of Art.



### **PARTNER**

ACSA is pleased to partner with the Modular Building Institute.



## GENERAL INFORMATION

### **Continuing Education**

Selected CES sessions will be available. CES forms are located in your registration packet. CES forms must be signed and turned in at the registration desk before leaving the conference.

### **Badges**

You must wear your badge throughout the conference to be admitted into sessions. Please return your badge cover at the close of the meeting to the registration desk for recycling.

### **Online Evaluation Form**

You will be sent a link to complete an online evaluation survey after the conference. Your opinions and program suggestions will help us plan for future conferences. Please take a few minutes to complete the survey. We greatly appreciate your feedback.

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**ACSA MISSION STATEMENT**

To advance architectural education through support of member schools, their faculty, and students. This support involves:

- Serving by encouraging dialogue among the diverse areas of discipline
- Facilitating teaching, research, scholarly and creative works, through intra/interdisciplinary activity;
- Articulating the critical issues forming the context of architectural education
- Fostering public awareness of architectural education and issues of importance

This advancement shall be implemented through five primary means: advocacy, annual program activities, liaison with collateral organizations, dissemination of information and response to the needs of member schools in order to enhance the quality of life in a global society.

## SCHEDULE AT-A-GLANCE\*

### THURSDAY (AT WESTIN HOTEL)

8:00	Prefabrication Education Workshop - MBI	SALON 2
8:00	Building Strong Management Skills - MBI	SALON 3
3:00	Coffee Break	REGISTRATION
3:30	Digital Innovation Session I	SALON 1
3:30	History Session I	SALON 2
3:30	Industry Innovation Session	SALON 3
3:30	Material Innovation Session	GEORGIAN ROOM
5:30	Coffee Break	REGISTRATION
6:00	Keynote: Atlantic Yards Highrise Modular	SALON 1
7:30	Reception	GEORGIAN ROOM

### FRIDAY (BEGINS AT WESTIN HOTEL / DROP-OFF AFTER TOUR AT TEMPLE UNIVERSITY)

7:00	Breakfast	SALON
7:30	Factory Tour: NRB Modular	LOBBY
(DROP-OFF AT TEMPLE UNIVERSITY)		
1:00	Lunch	LOBBY
2:00	Component Systems Session	CLASSROOM 305
2:00	SFS: Housing Plenary	GALLERY 104
2:00	Material Innovation Session II	CLASS 404
2:00	SFS: Theories of Fabrication	SEMINAR 103
3:30	Coffee Break	LOBBY
4:00	Classroom & Disaster Relief Session	GALLERY 104
4:00	Digital Innovation Session II	CLASSROOM 305
4:00	History Session II	CLASSROOM 404
4:00	Sustainability Session	SEMINAR 103
6:00	Coffee Break	LOBBY
6:30	Keynote: OFFSITE in the UK	GALLERY 104
8:00	Reception	LOBBY

### SATURDAY (AT TEMPLE UNIVERSITY)

8:30	Design Speculation Session	LAB 303
8:30	Housing Session I	CLASSROOM 404
8:30	Solar Decathlon Session	SEMINAR 103
8:30	Theories of Fabrication Session I	CLASSROOM 305
10:00	Coffee Break	LOBBY
10:30	History Session III	CLASSROOM 305
10:30	Housing Session II	LAB 303
10:30	Pedagogy Session	SEMINAR 103
10:30	Theories of Fabrication Session II	CLASSROOM 104
12:30	SFS: Closing Plenary/Lunch	GALLERY 104
2:00	Modules Project Tour	TEMPLE CAMPUS

**8:00AM-3:00PM**  
SALON 2

**PREFABRICATION EDUCATION WORKSHOP /  
ESSENTIALS OF COMMERCIAL MODULAR  
CONSTRUCTION (MBI)**

Ryan E. Smith, University of Utah  
Laurie Roberts, NRB

While commercial modular construction represents only one percent of overall commercial construction, this building method remains one of the most interesting and misunderstood, dating back to Egypt's Great Pyramids. Advances in technology and trends, however, have made modular building an extremely flexible and efficient process in today's environmentally-conscious market, where up to 90% of a building is constructed in a quality-controlled factory using traditional building materials, then shipped to a final destination and assembled to form a seamless building.

Regardless of industry experience, every person interested or involved in temporary or permanent modular construction should participate in this course at least once. Developed by the MBI Educational Foundation in response to the need for industry-specific training, this course is delivered in the logical order of a successful modular building project from start to finish.

Participants will learn principles of professional selling, how to qualify a customer, project delivery methods, fundamentals of teamwork, who the key players are, common design considerations, common building materials used, site considerations, site supervision, and methods of installing and finishing a building. A certificate of completion from MBI will be awarded to each participant.

**8:00AM-3:00PM**  
SALON 3

**BUILDING STRONG PROJECT MANAGEMENT  
SKILLS / MODULAR BUILDING INSTITUTE (MBI)  
INDUSTRY TRAINING**

FMI Corporation

In a study conducted by the Business Roundtable, the training of field supervisors and managers has been identified as the most critical factor in controlling job costs. In these difficult economic times, the ability of project managers, superintendents, and foremen to meet or beat estimates will become increasingly important in separating successful contractors from the average firm.

This course is designed to enhance project management skills and ultimately result in increased company productivity and profitability. It is for hands-on, can-do professionals who want to understand how a five percent savings on materials can increase net profits by 62 percent; how a 10 percent increase in labor productivity can increase net profits by 68 percent; how efficient handling of change orders will protect the contractor, improve job profits, and improve customer satisfaction; how to analyze and overcome obstacles to high daily performance; and how team participation in the field creates a cooperative attitude, boosts morale, improves productivity, and increases profits for the mutual well-being of worker and company.

Throughout this course, FMI will challenge participants to perform at higher levels so they leave with management skills that add value to the company. Participants will also be awarded a certificate of completion from FMI.

**3:00PM-3:30PM**  
REGISTRATION

**COFFEE BREAK**

**3:30PM-5:30PM**

SALON 1

**DIGITAL INNOVATION SESSION I**

**Critiquing CAM: Comparing Computer-Aided Manufacturing and Traditional Manufacturing**  
Dana K. Gulling, North Carolina State University

**Who already does this better? Mass Production + Customization**  
Marc A. Roehrle, University of Wisconsin-Milwaukee

**Off Site / On Site: Re-Siting Modular Construction Through Robotic Manufacturing**  
Joshua Bard, University of Michigan

**3:30PM-5:30PM**

SALON 2

**HISTORY SESSION I**

**Prefab + Solar at Mid-century**  
Anthony Denzer, University of Wyoming

**Cherner and the FHA: Housing Research in the 1950s**  
Jane Murphy, Ohio State University

**Mail-Order Modern: Supermarket Magazines, Vacation Cabins, and Modular Measure in the 1950s**  
David Hill, North Carolina State University

**Off and On: Successes and Failures of Prefabrication of Houses**  
Linda Brock, University of British Columbia

**An American Wartime Dream: The Packaged House of Konrad Wachsmann and Walter Gropius**  
Alicia Imperiale, Temple University

**3:30PM-5:30PM**

SALON 3

**INDUSTRY INNOVATION SESSION**

**Logistical Aspects of Prefabrication**  
Emanuel Jannasch, Dalhousie University

**A Case Study on Multi-trade Prefabrication**  
Kihong Ku, Philadelphia University  
Paul Broadstone, Virginia Tech  
Anthony Colonna, Skanska USA Building

**Offsite Fabricators and Customization in History and Practice**  
Liane A. Hancock, Louisiana Tech University

**Customized Container Architecture**  
Adrian Robinson, Oxford Brookes University

**Iterative Resilience: Synchronizing Dynamic Landscapes with Responsive Architectural Systems**  
Meredith Sattler, Louisiana State University

**3:30PM-5:30PM**

GEORGIAN ROOM

**MATERIAL INNOVATION SESSION I**

**AAC Textile Block System**  
Lawrence Blough, Pratt Institute

**Investigation of the Process of Digital Design, Virtual Prototyping, Simulation Testing and CNC Manufacturing of Contemporary "Post-and-Beam" Timber Framed Buildings**  
Faidon Nikiforiadis, Low Carbon Building Design, UK

**Pattern and Performance: A Case Study**  
Andrew Cruse, Washington University in St. Louis

**Tessellating Terracotta: The Performative Potential of Ceramic Systems for Prefabrication**  
Clare Olsen, California Polytechnic State University

**5:30PM-6:00PM**

REGISTRATION

**COFFEE BREAK**



**6:00PM-7:30PM**  
SALON 1

**KEYNOTE: ATLANTIC YARDS HIGHRISE MODULAR**

Alex Terzich & Erik Churchill, SHoP Architects (NYC)  
+ industry experts offer a presentation and Panel  
Discussion on the progress of the Atlantic Yards  
modular high rise in New York City.

**7:30PM-8:30PM**  
GEORGIAN ROOM

**RECEPTION**

FRIDAY, SEPTEMBER 28, 2012, BEGIN AT THE WESTIN HOTEL

**7:00AM-7:30AM**  
SALON I

**CONTINENTAL BREAKFAST**

**7:30AM-1:00PM**  
WESTIN LOBBY

**FACTORY TOUR: NRB MODULAR**

Buses will depart from the Westin Hotel Lobby starting  
at 7:30AM.

DROP-OFF AT TEMPLE UNIVERSITY, ARCHITECTURE BUILDING

**1:00PM-2:00PM**  
LOBBY

**LUNCH AT TEMPLE UNIVERSITY**

Buses will drop attendees at Temple University,  
Tyler School of Art for conference sessions.

**2:00PM-3:30PM**  
CLASSROOM 305

**COMPONENT SYSTEMS SESSION**

**Off Building Pre-Assemblies: Building Envelope  
Systems Pre-assembled for Optimal Modularization  
and Improved Workflow**

Minjung Maing, Georgia Institute of Technology

**Housing Agency System (HAS): Multi-Criteria  
Satisficing & Mass-Customization of Homes**

Michael S. Bergin, University of California, Berkeley

**Architects + Manufacturing: A Catalog of Architects  
Customizing Repetitive Building Elements**

Dana K. Gulling, North Carolina State University

**Thermal Performance Issues of Glazing Facades and  
the Use of Environmental Parameters in Exterior  
Shading Device Design**

Nik Nikolov, Lehigh University

**2:00PM-3:30PM**  
GALLERY 104

**SPECIAL FOCUS SESSION: HOUSING PLENARY**

Scott Hedges, Entrepreneur & Greg La Vardera,  
Architect discuss *Optimizing Offsite: Residential  
Construction Systems in Sweden*.

Howard Steinberg, Principal, Onion Flats + BLOX  
Sustainable Building Systems

**2:00PM-3:30PM**  
CLASSROOM 404

**MATERIAL INNOVATION SESSION II**

**Recasting Precast: Pedagogy, Production, and  
Performance with Precast Concrete Wall Panel Systems**

Matt Burgermaster, New Jersey Institute of Technology

**Molded Remediating Modules: Prefabricated  
Components for Improving Indoor Air Quality  
and Condition**

Carmen Trudell, California Polytechnic State University

**Digital Concrete Fabrication: Concepts in  
Parametric Formwork**

Nathan Howe, Kansas State University

**Modular Commons: Z-Blocks**

Srdjan Jovanovic Weiss, Temple University

**2:00PM-3:30PM**  
SEMINAR 103

**SPECIAL FOCUS SESSION: THEORIES OF  
FABRICATION PLENARY**

Roger-Bruno Richard, University of Montreal,  
presents *Industrialised Building Systems:  
The 'Palette' of Options*.

**3:30PM-4:00PM    COFFEE BREAK**

LOBBY

**4:00PM-6:00PM    CLASSROOM & DISASTER RELIEF SESSION**

GALLERY 104

**Social Process for a Modular Future**

Margarette Leite & Sergio Palleroni,  
Portland State University

**FrameScapes: Modular Demountable School  
for Burmese Refugee Children**

David Hill, North Carolina State University

**Designing Better Portable Classrooms**

Nils Gore, University of Kansas

**Habitat Temporanei: Proposals for Post-Disaster  
Provisional Housing**

Sandy Stannard, California Polytechnic State University

**reCOVER: Disaster Recovery Housing System**

Anselmo Gianluca Canfora, University of Virginia

**Prefabricated Emergency Response Living (P.E.R.L.)**

Peter D.D. Hind, University of Nebraska-Lincoln

**4:00PM-6:00PM    DIGITAL INNOVATION SESSION II**

CLASSROOM 305

**Traditional Complex Modularity in Islamic and Persian  
Architecture: Interpretations in Muqarnas and Patkâné  
Crafts, Focusing on their Prefabricated Essence**

Negin Dadkhah, Temple University

**Youth Hostel Detroit: Reframing Design Build  
Education Through Digital Practice**

Joshua Bard, University of Michigan

**Yesterday's Tomorrow Was Today: the Revival of Mid-  
Century Optimism in the Age of Digital Fabrication**

Damon Caldwell, Louisiana Tech University

**4:00PM-6:00PM    HISTORY SESSION II**

CLASSROOM 404

**The Production of R.G. LeTourneau's Prefabricated  
Concrete Homes: Making the Tool to Make the Thing**

Everett E. Henderson, Jr., University of Florida

**Repeating Success and Avoiding Failures: A Historical  
Overview of Panelized and Modular Construction  
in Housing**

Michael J. O'Brien, Texas A&M University

**The Dismissal of Dymaxion House and  
Demountable Space**

Rob Whitehead, Iowa State University

**New Ways of Living Through Plug-In and Stacking  
Prefabricated Modular Housing Systems**

Luis Machuca, Malaga University

**Industrial Building Relevancy: A Retrospective of CRS  
Firm Insights on Designing Production Facilities**

Marjorie Callahan, University of Oklahoma

**4:00PM-6:00PM    SUSTAINABILITY SESSION**

SEMINAR 103

**A Novel "Post-and-Beam" Timber Structural System for  
Sustainable European Modular Houses**

Faidon Nikiforiadis, Low Carbon Building Design, UK

**Efficacy of Shipping Container Upcycling:  
Comparison of Environmental Impacts  
Between Two Housing Systems**

Bradley Guy, Catholic University of America  
Stephen Bender, University of Florida

FRIDAY, SEPTEMBER 28, 2012, AT TEMPLE UNIVERSITY

**High Octane: Eco-adaptive Architecture**

Elizabeth Martin, Southern Polytechnic State University

**Prefabricating Charles Moore: Reinterpreted Saddlebags and Aedicules**

C. A. Debelius, Chadwick Everhart

James Russell, Appalachian State University

**Life Cycle Impact Assessment of a Megapanel Façade System in HL23 Condo**

Kyoung-Hee Kim, University of North Carolina at Charlotte

**6:00PM-6:30PM**

LOBBY

**COFFEE BREAK**

**6:30PM-8:00PM**

GALLERY 104

**KEYNOTE - OFFSITE IN THE UK**

*Session Moderator:* James Guthrie, Miletus Group

*Keynote Speaker:* Jaimie Johnston, Bryden Wood (London) presents on designing for manufacture and assembly.

*Panel Discussion:* A panel discussion follows with Ian Peter Atkins, Kohn Pedersen Fox Associates and Adrian Robinson formerly with Buro Happold (London) to discuss the emergence of offsite growth in the UK during the past decade.

**8:00PM-9:00PM**

LOBBY

**RECEPTION**

SATURDAY, SEPTEMBER 29, 2012, AT TEMPLE UNIVERSITY

**8:30AM-10:00AM**

LAB 303

**DESIGN SPECULATION SESSION**

**Folding Modular Retreat**

Jessica Hester-Mautner Braverman, North Carolina State University

**From 'Part to Whole' to 'Whole to Part': Rethinking Modularity**

Luis Ortega, University of Illinois at Chicago

**Prefabricated Nested Boxes**

Kristina H Yu, University of New Mexico

**Your Space Kit: Off-Site Prefabrication of Integrated Residential Fit-Out**

Stephen H. Kendall, Ball State University

**8:30AM-10:00AM**

CLASSROOM 404

**HOUSING SESSION I**

**Beyond the Trailer: Rethinking Affordable Manufactured Housing in the U.S.**

Carlos Alberto Reimers, Catholic University of America

**BRITNEY and K-FED: Uniting Processed and UN-Processed Components in Affordable Housing**

John E. Folan, Carnegie Mellon University

**Locally Based Approach to Prefabricated Housing**

Peter L. Wong & Alexander Suryandono, University of North Carolina at Charlotte

**A New Norris House: Give and Take**

Samuel Mortimer, University of Tennessee-Knoxville

**Eco-Fab: A Climatic Responsive Alternative to Manufactured Housing**

Sandy Stannard, California Polytechnic State University

**8:30AM-10:00AM SOLAR DECATHLON SESSION**

SEMINAR 103

**Unmoored Architecture: On Modules, Mobility and Manufacturing in the RE:FOCUS House**  
Mark McGlothlin, University of Florida

**Living Light**  
Edgar Stach, Philadelphia University

**The Urban Garden; Industrialized Net Zero Energy Housing**  
Joseph Wheeler, Virginia Tech

**Design-Build: Prototyping a Modular, Energy-Efficient Envelope System with Students**  
Christian Volkmann, City College of New York

**8:30AM-10:00AM THEORIES OF FABRICATION SESSION I**

CLASSROOM 305

**Modular Urbanism**  
David Karle, University of Nebraska-Lincoln

**Speculative Evolution: Computational and Biogenetic Analogues in Contemporary Architectural Production**  
Pasquale De Paola, Louisiana Tech University

**System Structures in Architecture: Towards a Theory of Industrialized Construction**  
Kasper Sánchez Vibaek, Royal Danish Academy of Fine Arts

**10:00AM-10:30AM COFFEE BREAK**

LOBBY

**10:30AM-12:30PM HISTORY SESSION III**

CLASSROOM 305

**Into Africa: A Comparison of the Metal, Prefabricated Structures Proposed by Auguste Choisy (1893) and Jean Prouvé (1949) for the French Colonies**  
Hilary Bryon, Virginia Tech

**Modularity, Prefabrication + Building Manuals In Postwar Italy: Scenes from America**  
Alicia Imperiale, Temple University

**The 'Single-Pour System': Thomas Edison and the Production of a House Without Parts**  
Matt Burgermaster, New Jersey Institute of Technology

**Utopia Modulated: The Case of Yona Friedman and the Systemic Approach to the Social Sense of the Fragmentary**  
Srdjan Jovanovic Weiss, Temple University

**10:30AM-12:30PM HOUSING SESSION II**

LAB 303

**Compact Prefabrication and the Accessory Dwelling Unit**  
Kristina H Yu, University of New Mexico

**Construction Critical: Technology, Millwork, and Interior Space**  
Michael D. Gibson, Kansas State University

**Prefab for Humanity**  
Ryan Salvas, Robert Sproull, Jr., and Justin Miller, Auburn University

**Ralph Rapson's Greenbelt: The Evolution of a Prototype**  
Francisco Gomes, University of Texas at Austin

**Toward Green Infill Housing: A Modular "Kit-of-Parts"**  
Lisa D. Iulo, Pennsylvania State University

**10:30AM-12:30PM PEDAGOGY SESSION**

SEMINARY 103

**Off-the-grid: Three Academic Design/Build Projects  
Built Offsite, Off-the-grid and for the Public**  
Rocco J. Ceo, III, University of Miami

**Digital Tolerance: Alternate Groundings for  
Computer Fabrication Pedagogy**  
Sam Zeller, Kansas State University

**Prototype**  
Igor Siddiqui, University of Texas at Austin

**The Butler Building as a Pedagogical Instrument**  
Greg Snyder, University of North Carolina at Charlotte

**10:30AM-12:30PM THEORIES OF FABRICATION SESSION II**

CLASSROOM 104

**Analysis and Integration of Fabrication Systems**  
Emanuel Jannasch, Dalhousie University

**Off-site / Off-world: Prefabrication for Extreme  
Conditions and Unpredictability**  
Genevieve Baudoin & Bruce Johnson,  
University of Kansas

**Form Follow Structure: Biomimetic Emergent Models  
of Architectural Production**  
Pasquale De Paola, Louisiana Tech University

**Simple Aesthetics: Searching for a Theoretical Basis  
for Design Restraint**  
Dana K. Gulling, North Carolina State University

**12:30PM-2:00PM SPECIAL FOCUS SESSION:  
CLOSING PLENARY / LUNCH**

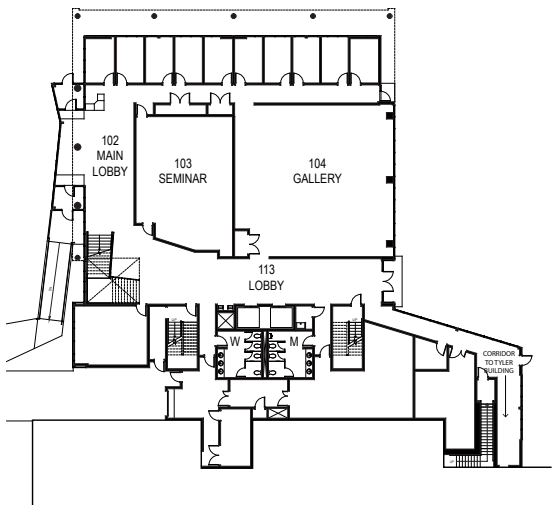
GALLERY 104

**2:00PM-4:00PM MODULES PROJECT TOUR**

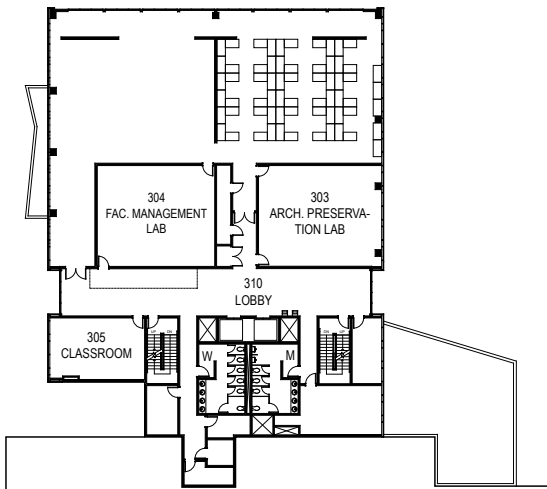
TEMPLE CAMPUS

Brian Phillips, Architect of the Modules student  
residence of Temple University provides a live tour of  
this four story permanent modular construction.

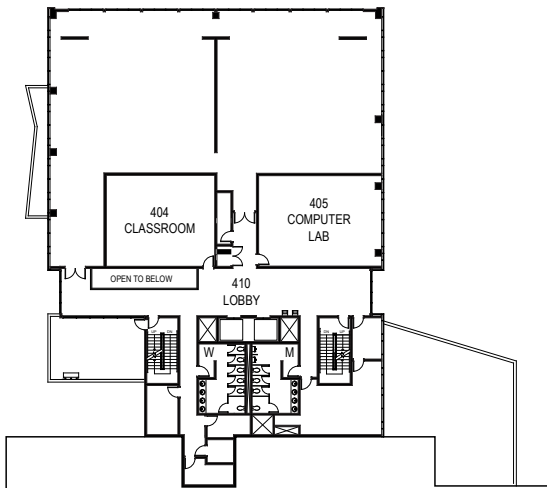
TEMPLE UNIVERSITY FLOORPLAN



TEMPLE ARCHITECTURE BUILDING  
GROUND FLOOR

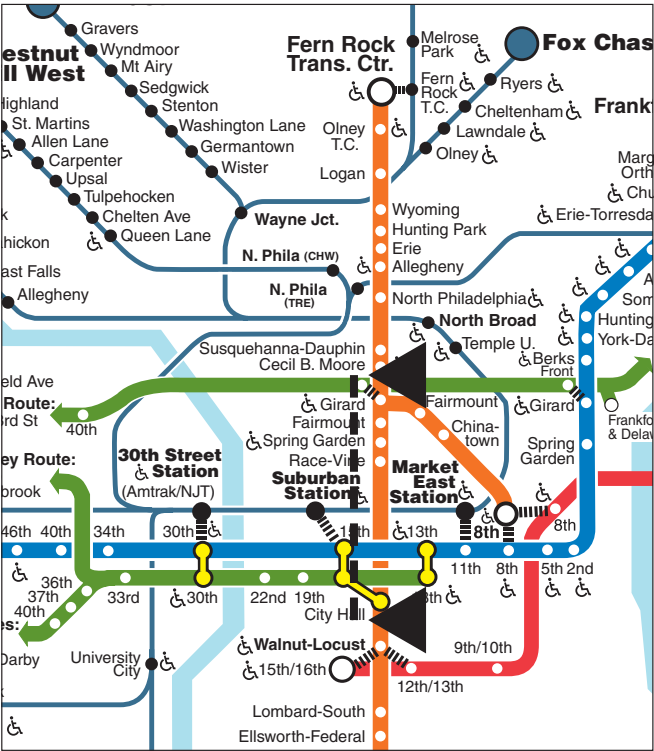
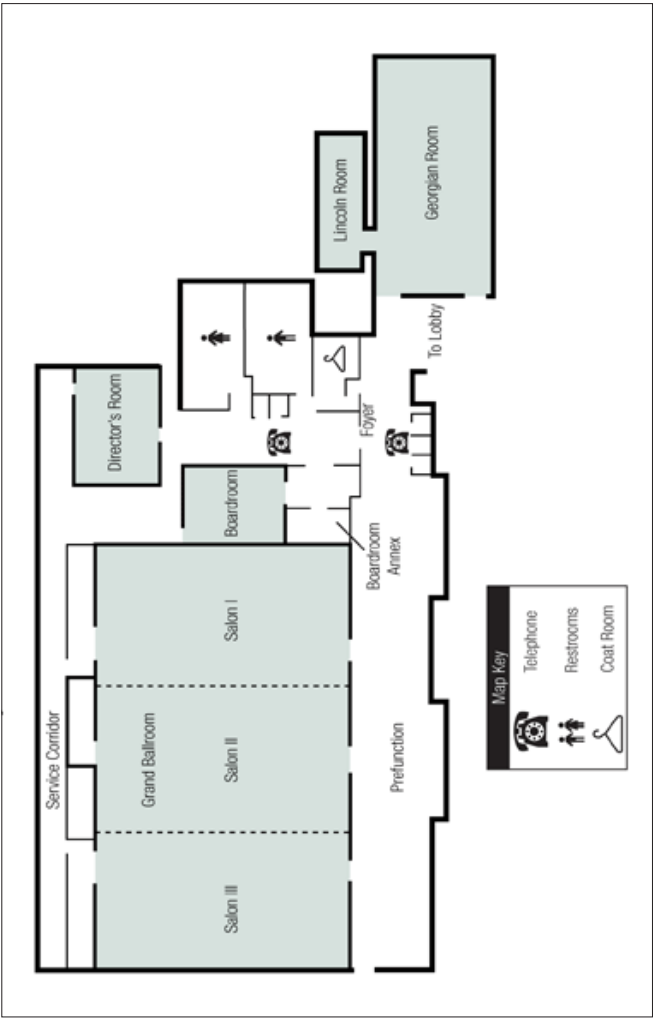


TEMPLE ARCHITECTURE BUILDING  
THIRD FLOOR



TEMPLE ARCHITECTURE BUILDING  
FOURTH FLOOR

WESTIN HOTEL FLOORPLAN



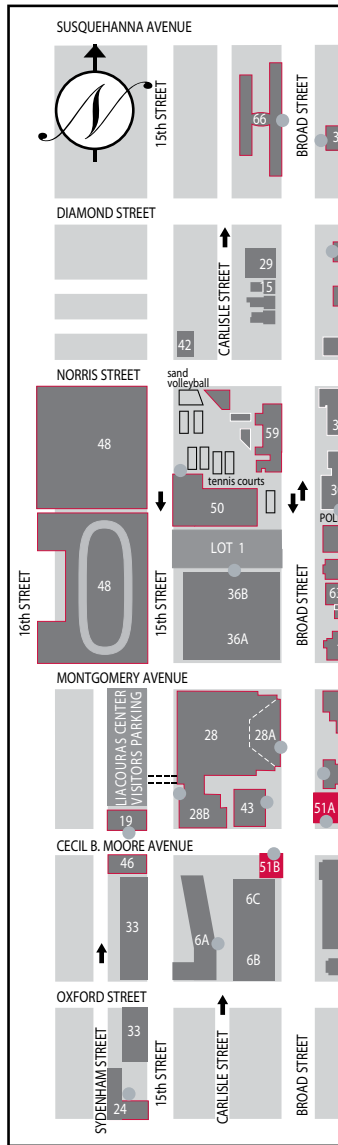
PHILADELPHIA TRANSIT - SEPTA  
CITY HALL STATION ON THE BROAD STREET LINE EXIT CECIL B. MOORE STATION.  
WALK ONE BLOCK EAST ON CECIL B MOORE STREET TO N. 13TH STREET, TAKE N. 13 STREET,  
NORTH, THREE BLOCKS TO THE ARCHITECTURE BUILDING

# MAIN CAMPUS

## TEMPLE UNIVERSITY

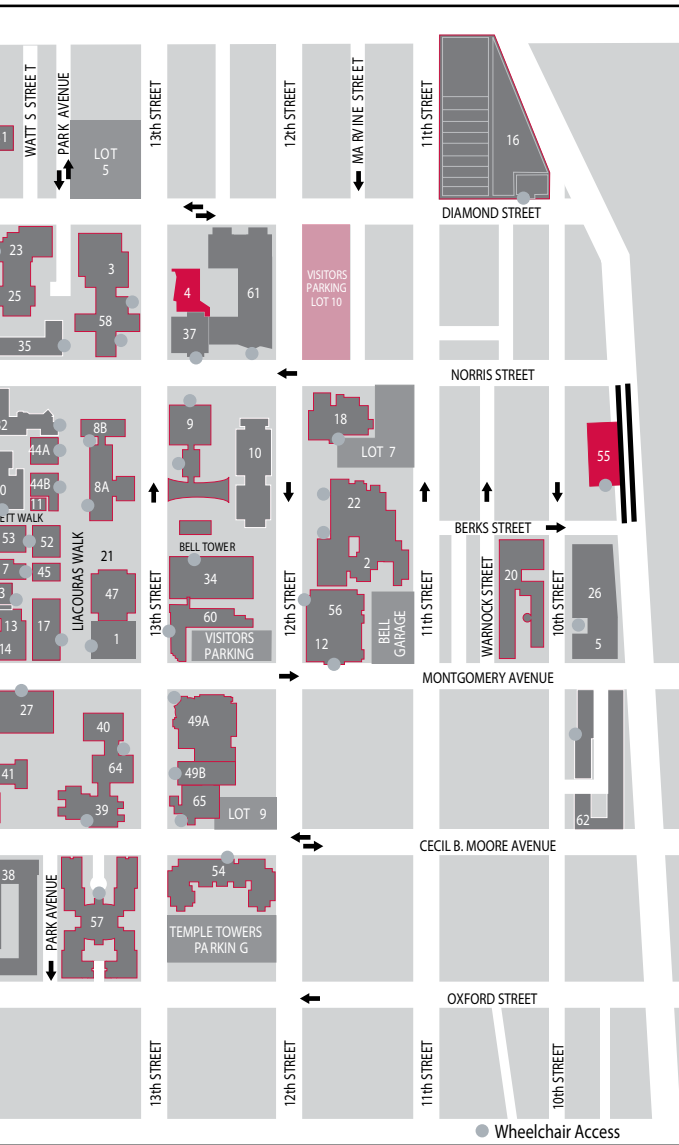
### Buildings and Departments

1. Alter Hall
2. Anderson Hall
3. Annenberg Hall
4. **Architecture**
5. Atlantic Terminal  
(privately developed housing)
6. Avenue North Complex
  - 6A. The Edge (privately developed student housing)
  - 6B. Shops
  - 6C. Temple University Fitness
7. Barrack Hall
8. Barton Hall (Physical Science)
  - 8A. BartonA
  - 8B. BartonB
9. Beury Hall (BE)
10. Biology-Life Sciences Building (BL)
11. CampusDance Sub-Station
12. Campus Safety Services
13. Carnell Hall
14. Conwell Hall (CW)
15. Conwell House
16. Edberg-Olson Football Practice Facility
17. 1810 Liacouras Walk  
(student services)
18. Engineering
19. Entertainment and Community Education Center and retail shops (WRTI)
20. Facilities Management Office
21. Founder's Garden
22. Gladfelter Hall (GH)
23. Hardwick Hall  
(student housing)
24. Elmira Jeffries  
(student housing)
25. Johnson Hall  
(student housing)
26. Kardon Building  
(privately developed housing)
27. Klein Law Building  
(James E. Beasley School of Law)
28. The Liacouras Center
  - 28A. Esther Boyer Theater
  - 28B. Independence Blue Cross Recreation Center
29. Messiah College
30. Mitten Hall (Diamond Club)
31. Newman Center
32. "1940" (student housing)
33. Oxford Village  
(privately developed housing)
34. Paley Library (PL)
35. Peabody Hall  
(student housing)
36. Pearson/McGonigle Complex
  - 36A. Pearson Hall (PH)
  - 36B. McGonigle Hall (MG)
37. Presser Hall (PR)



38. Residential & Retail Complex  
(under construction)
39. Ritter Hall Annex (RA)/  
Kiva Auditorium
40. Ritter Hall (RH)
41. Rock Hall (RC)
42. Edward H. Rosen Hillel Center  
for Jewish Life
43. 1700 N. Broad Street
44. The Shops on Liacouras Walk  
44A. and 44B.
45. Shusterman Hall
46. Small Business  
Development Center  
(1510 Cecil B. Moore Ave.)
47. Speakman Hall (SP)  
(School of Tourism and  
Hospitality Management)





- 48. Sports and Recreation Fields
- 49. Student Center Complex
  - 49A. Howard Gittis Student Center/Bookstore
  - 49B. Student Center (south)
- 50. Student Pavilion
- 51. Subway Station and Plaza (SEPTA)
  - 51A. Northbound
  - 51B. Southbound (to Center City)
- 52. Sullivan Hall (SN)
- 53. Temple Performing Arts Center
- 54. Temple Towers (student housing)
- 55. Temple University Regional Rail Station (SEPTA)
- 56. Temple University TECH Center & Welcome Center
- 57. "1300" (student housing)

- 58. Tomlinson Theater (TT)/ Randall Theater
- 59. Triangle Apartments (student housing)
- 60. Tuttleman Learning Center
- 61. Tyler School of Art
- 62. University Village (privately developed housing)
- 63. Wachman Hall (Computer/Mathematics)
- 64. Walk Auditorium
- 65. Weiss Hall (WH)
- 66. James S. White Hall (student housing)



## NOTES

[illegible]

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[illegible]

THURSDAY, SEPT 27–SATURDAY, SEPT 29, 2012  
PHILADELPHIA, PA