Education Lab
Deerfield Academy, Koch Center for Science, Math & Technology, Deerfield, Massachusetts

This 78,000-square-foot LEED® Gold building conserves energy, utilizes light in extraordinary ways, and limits storm water run-off. Its low profile and gentle curves merge with the surrounding landscape; the brick walkways leading to it echo the course of the Deerfield River.

SOM is one of the leading architecture, interior design, engineering and urban design and planning firms in the world. The firm’s sophistication in building technology applications and commitment to design quality have resulted in a portfolio that features some of the most important architectural accomplishments of modern times.

SOM draws on several decades of experience in more than 50 countries around the globe to inform its design solutions. The firm has an international reputation for excellence, and was recently named the most innovative architecture firm in the world by Fast Company Magazine. Since its founding, SOM has received more than 1,500 awards, including the American Institute of Architects’ (AIA) highest honor for design excellence in a collaborative practice. It is the only firm to have received this award twice.

In recent years, the firm’s expertise has expanded, from the innovative planning and design of high profile office and mixed-use projects, to include an increasingly comprehensive range of programs and uses. Today SOM is an industry leader in the architectural design and engineering for sites and buildings dedicated to education, public infrastructure and transportation, aviation, health and science, and government. The firm’s longstanding commitment toward greater innovation extends not only to the design and engineering of its built work, but also to the application of its expertise and resources, as reflected in several initiatives including the SOM Journal and the creation of the Center for Architecture, Science & Ecology (CASE), in collaboration with Rensselaer Polytechnic Institute. These initiatives continue the tradition of integration of disciplines upon which the firm was originally founded.

Harvard University, Northwest Science Building, Cambridge, Massachusetts

“The design development of this project was heavily weighted in programmatic development, and the design team worked diligently with the diverse user groups in order to define and identify concerns and requirements of all stakeholders while also maintaining the University’s goals of increased efficiency and sharing of space. The interactive nature of this design process demanded constant feedback and input from the design team.”

- Sharalee M. Field, Senior Planner for the Sciences, Harvard University

SOM Education Lab

Education Design

SOM Education Lab, the firm’s vibrant education design practice, is led by Design Partner Roger Duffy, FAIA and Education Lab Director, Chris McCready, AIA. Doug Voigt, AICP is the Director in charge of Campus Planning. The Education Lab’s tightly focused core group of 45 designers benefits from research and design initiatives that emerge from other design studios within SOM. Our services include programming, master planning, feasibility studies, and full architectural and engineering services for schools, colleges, universities, and other educational institutions.

SOM Education Lab creates solutions in response to the unique characteristics of each client’s program, site, aspirations, schedule, and budget. These solutions emerge from a collaborative process that emphasizes listening, exchange and cooperation. SOM Education Lab’s past projects include master plans, student centers, performing arts centers, classroom buildings, science and technology buildings, athletic centers, libraries, dormitories, faculty housing, and other educational facilities. A common theme joining these projects is an interest in creating highly effective learning environments by focusing on light, flexibility, program and context. With every project, the objective of SOM Education Lab is to help clients achieve their goals with innovation, attention to detail, and careful management of the project budget and schedule. SOM Education Lab brings added value to clients by integrating multiple disciplines and services, including the following:

- Facilities programming and planning
- Master planning and design
- Space Utilization Studies
- Feasibility studies
- Building and site evaluation
- Architectural and conceptual design
- Specifications
- Construction administration
- Post-occupancy evaluations
- Environmental initiative review and development
- LEED compliance review
- Building control systems
- Climatic response planning
- Waste reduction
- Daylighting
- Building orientation
- Thermal massing
- Intelligent systems
- Simulation
- Performance ratings
Client List

**HIGHER EDUCATION**
- Bowdoin College
- Brown University
- Carnegie Mellon University
- Columbia University
- Cornell University
- Harvard University
- Imperial College of London
- John Jay College
- Kuwait Police College
- Kuwait University
- Long Island University
- Marist College
- Nanjing Xianlin University
- National University of Singapore
- The New School
- The Ohio State University
- Princeton University
- Rice University
- San Jose State University
- Shanghai University
- St. John’s University
- Stanford University
- Syracuse University
- Texas Medical Center
- Tzu Chi University
- UC Berkeley
- UC Davis
- UC Merced
- UC San Diego
- UC San Francisco
- UC Santa Cruz
- University of Chicago
- University of Connecticut
- University of North Carolina
- University of Pennsylvania
- University of West Florida
- U.S. Air Force Academy
- Washington University
- Yale University

**K-12**
- Brunswick School
- Deerfield Academy
- GEMS Academies
- Greenwich Academy
- Horace Mann School
- NJ Schools Development Authority
- NYC School Construction Authority
- Raffles American School (RAS)
- St. Albans School
- St. Paul’s School
- Town of Fairfield, Connecticut
- United Nations International School

Skidmore, Owings & Merrill LLP | SOM Education Lab
Sustainable Design
Prioritizing Sustainable Solutions

SOM is dedicated to the well-being of the individual, the community, and human environment, and evaluates sustainable strategies throughout the design process. The firm operates in a highly integrated manner where architects, urban planners, interior designers, environmental and structural engineers examine the total building and site performance. The incorporation of sustainable strategies is an integral part of the firm's commitment to excellence.

SOM considers sustainability at all scales of development, from regional and city planning to the design of individual objects. SOM believes that in order for communities to survive, urban development should preserve social, economic and ecological sustainability. At the regional and city scales, the Urban Design Studio carefully develops plans for transportation, open spaces, and the optimal use of land while protecting watersheds and the natural habitat and resources.

At the district and block scale, urban planners, architects and engineers collaborate to develop communal spaces and buildings that incorporate pedestrian amenities and implement strategies that make the best use of the microclimate, solar orientation, and storm water management. At the building and object scale, SOM’s multidisciplinary team maximizes the health and welfare of the building occupants and indoor environmental quality by applying strategies such as daylighting, thermal comfort, water efficiency, energy efficient designs.

The use of intelligent and integrated building technologies such as wind turbines and double skin walls all aim towards developing a highly-sustainable structure. SOM architects, engineers, and interior designers focus on selecting materials for durability, function and factor in local sourcing and the percentage of recycled content. The team places a high value on creating spaces that leave a minimal environmental footprint through maximized efficiency and flexibility for growth. SOM uses a variety of tools and strategies to minimize energy use and environmental impact, including advanced building control systems, climatically responsive planning, waste reduction principles, natural day lighting, building orientation, urban redevelopment, thermal massing, intelligent building systems, building simulation, and building performance rating.

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**Collaboration and Innovation**

SOM leads the architectural profession in developing forward-looking and innovative approaches to design, technology, and management. An advocate of ecologically sustainable design since the 1950s, SOM is one of the original members of the U.S. Green Building Council. As a firm we are committed to researching, innovating and integrating sustainable design features and pushing the envelope to maximize a building’s energy efficiency. With over 100 LEED® accredited professionals, we incorporate sustainable concepts into every project as a part of our Best Practices Approach; as a result SOM has been honored with more than 40 awards for energy efficiency and sustainable design. SOM Education Lab’s Koch Center for Science, Mathematics & Technology at Deerfield Academy, was one of the first secondary schools in the United States to achieve a LEED® gold rating. SOM has participated in the development of the (LEED®) Green Building Rating System.

It is with this goal of finding new ways to understand and apply innovations that SOM has engaged in numerous partnerships with institutions, artists, and manufacturers who support our design vision to seek new solutions and create new standards in the industry.

Extensive collaboration with major academic institutions distinguishes SOM in the development of highly advanced, state-of-the-art methodologies and the study of materials and systems to better improve our buildings. Such research enables SOM’s staff to conduct analysis studies throughout the lifespan of each project. SOM’s partnerships with such institutions as the University of Pennsylvania’s Building Simulation Group and Chuck Eastman from Georgia Tech on Digital Design Ecosystems, enhances our understanding and ability to advance new technologies throughout the design process, from design inception to its realization. In a continuation of this interest in exploration of new technologies, SOM recently entered into a collaboration with Rensselaer Polytechnic Institute to create the Center for Architectural Science and Ecology (CASE), a group of architects and graduate and doctoral candidates dedicated to applying the latest scientific thought in the creation of sustainable design solutions.

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We understand that in order to reap benefits from the work we are doing today, we must always have an eye on the future: effecting and creating tangible ideas that maintain their practicality and inspire well past their inception. Changing the marketplace, inspiring new systems and materials through our design stories, and understanding that true innovation brings forth brilliance in ways never before imagined – that is our goal in collaboration.
BIM / Technical Expertise
Building Information Modeling & Advanced Digital Design

As an industry leader in the implementation and advanced use of computational tools, SOM has integrated Building Information Modeling (BIM) as an inherent part of its creative design and project delivery processes. Continuing its rich 40-year legacy of computational design, SOM was one of the first firms to embrace modern BIM in early 2000 and continues to be a key participant in defining its role in the industry. Dramatically improving the efficiency of traditional design, documentation production, and design team collaboration efforts are all benefits that have been realized to date.

SOM’s project-based architects and engineers are fluent in a broad spectrum of tools, positioning teams to work creatively, intelligently, and efficiently. Among the teams, a group of specialists with advanced professional and computational knowledge can guide teams even further, including the possibility of extending commercially available software into highly strategic, advanced tools. Designers also draw from targeted collaboration with industry partners and research groups in universities.

SOM’s digital design, sustainability and energy specialists leverage advanced parametric, simulation and analysis tools at key design stages to illuminate the impact of design decisions, which allows the project teams to optimize sustainability, performance, and constructability.
VISIONARY CAMPUS DESIGN
Campus Master Planning

SOM Education Lab’s approach to planning is rooted in a deep understanding of the unique qualities of each client’s aspirations, program and site. We seek to define a strategic vision for our projects that is based on a thorough understanding of our client’s mission, goals, and requirements.

CornellNYC Tech Campus Framework Plan
LOCATION: CAMBRIDGE, MASSACHUSETTS

A new precedent for sustainable design in New York City will be set by the CornellNYC Tech Campus. The 2 million sf highly sustainable technology campus will be realized as a public-private development to accommodate 2,500 students on Roosevelt Island. The academic and research facilities will be net-zero and the remainder of the buildings will achieve a minimum of LEED Silver certification.

Columbia University Manhattanville Master Plan
LOCATION: NEW YORK, NEW YORK

The University has set out to develop an expansion of the existing Morningside Heights campus, exploring blocks to the north in the underutilized area of Manhattanville. SOM, in collaboration with Renzo Piano Building Workshop, embarked on a planning study to determine how to create an adjacent campus primarily for research, and how to make the best use of existing resources in the Morningside Heights, Washington Heights, Lamont-Doherty, and Manhattanville campuses.

Harvard University North Campus Master Plan
LOCATION: CAMBRIDGE, MASSACHUSETTS

The Harvard University North Campus Master Plan provides a comprehensive physical framework that will serve as a general guide to future development. The plan identifies the physical development needed to meet the future growth needs projected for the Sciences, Social Sciences, and Humanities Departments. The plan calls for the creation of a new academic district, a center for multi-disciplinary research in the life sciences, social sciences, and the humanities.

Marist College Master Plan
LOCATION: Poughkeepsie, NEW YORK

The Marist College Master Plan developed from a design principle that locates the center, or “heart” of campus activity and organizes academic and student functions around it to maximize visual and physical continuity. One major aspect of the plan involved analyzing current and potential parking needs to develop a campus-wide strategy that will provide more functional facilities while also creating a greener, more scenic campus. Existing parking lots were structured and either moved to the periphery or covered with pedestrian-friendly green roofs.

Syracuse University Lampe Athletic Complex Master Plan
LOCATION: SYRACUSE, NEW YORK

This project improves and expands Syracuse University’s existing athletic facilities in response to the demands of competing at NCAA Division I level and the needs of the general student body. SOM renovated and expanded the existing Manley Field House and added two smaller auxiliary buildings as support facilities, transforming what had been a disparate collection of ad hoc additions into a new, pedestrian-friendly focal point for the university. The design team made recommendations on how this centrally-located Lampe Athletic Complex could be more closely connected to the North and South Campuses, becoming the new Middle Campus and yielding a more unified overall plan.

University of California Merced Master Plan
LOCATION: MERCED, CALIFORNIA

The University of California Merced was the first major American research university built in the 21st Century. SOM’s master plan and accompanying architectural guidelines have helped the campus become a model for sustainable growth, establishing energy-use thresholds for the grounds and buildings that exceed codes by 20-to-50 percent. The plan shows how campus population increases can be accommodated while preserving the agricultural and environmental basis of the region’s economy and ecosystem.
CREATING NEW ACADEMIC ENVIRONMENTS
Higher Education

Good architecture is about creating a building and shaping a campus in a way that helps an institution to meet and exceed its goals. SOM Education Lab leverages the potential of each project by providing our clients with a unique response to their programmatic requirements. Each project is seen as embodying the identity of the campus as a whole. We strive to foster learning both inside and outside of the classroom.

### John Jay College of Criminal Justice Expansion
**Location:** New York, New York

Increased enrollment and demand for criminal justice education have resulted in an expansion plan at CUNY’s John Jay College of Criminal Justice. The new addition will for the first time create a cohesive instructional environment and integrate all college functions into a unified urban campus, creating an academic city within a city.

### Harvard University Northwest Science Building
**Location:** Cambridge, Massachusetts

This new multi-disciplinary research building for neurosciences, bio-engineering, systems biology, and computational analysis has become a model for a new generation of research environments that emphasize collaborative learning. It also defines a new campus yard—replacing World War II-era structures on the north edge of the campus—and creates an important link between Harvard and the adjacent Cambridge community.

### The New School University Center
**Location:** New York, New York

The new University Center will provide students and faculty with much needed academic and social spaces within one building. The varied program includes an auditorium, the main university library, lecture halls, classrooms, laboratories, distant learning center, informal study spaces, a cafeteria, retail cafés, and a 600-bed dormitory with a fitness center.

### Stanford University Center for Innovations and Learning
**Location:** Stanford, California

Acknowledging that technology is an indispensable part of the learning process, Wallenberg’s interior was completely reprogrammed and redesigned to keep up with the latest technology. The building is now outfitted with state-of-the-art classrooms, an auditorium (which provides the only web-cast-ready space on campus), a group work area, a student-publishing zone, and an “experimental zone,” which serves as a prototype incubator for technology experiments.

To accommodate such a technology-heavy program, flexibility was paramount in the reprogramming and redesign. Present and future tenant needs and usage patterns were carefully analyzed and projected.

### Rice University BioScience Research Collaborative
**Location:** Houston, Texas

While there have been a number of multi-disciplinary research buildings created on major campuses across the nation, the idea of multi-institutional collaboration is setting a new precedent. Rice University BioScience Research Collaborative (BRC) facilitates collaboration between researchers of different scientific disciplines from Rice University and various institutes from Texas Medical Center. The facility is strategically located to serve as a bridge between the two adjacent campuses: bringing the inside of Rice University out to the adjacent community, engaging Texas Medical Center and welcoming the City of Houston.

### University of California San Francisco Campus Housing
**Location:** San Francisco, California

To accommodate students and staff in one of the nation’s most expensive housing markets, UCSF commissioned SOM to design a mixed-use housing development on Block 20 of the new campus. The project is composed of 431 units in four buildings—stepping up from seven to 15 stories—set around a landscaped courtyard. The four buildings are gathered around the central courtyard, which extends the campus network of outdoor rooms. To provide added convenience and enhance the street level, retail storefronts are positioned along the sun-filled plaza that connects the housing complex to the campus green and nearby student center.
Lincoln Hall is an advanced-technology training facility on the campus of National Defense University, the preeminent institution for education in national and international security. Lincoln Hall comprises a new auditorium, state of the art conference facility and academic spaces, and features an open air ceremonial reception area, “rain garden” courtyard, and a glass-enclosed atrium that links Lincoln Hall with existing Marshall Hall, an adjacent library and training facility. While functioning within a highly secure envelope, Lincoln Hall projects openness, breakthrough technological innovation, and military dignity. Its architectural style was designed to complement historic Fort McNair, disguising a super-high technology facility in a highly structured yet elegant building envelope.

The New School Fogelman Library
LOCATION: NEW YORK, NEW YORK

The Fogelman Library incorporates 20,000 sf of new library space on several floors of the existing Knowledge Union at The New School. This project is at the cutting edge of library and information technology facilities within the University setting. The new space provides students with computer workstations, informal seating areas, quiet study spaces, computer classrooms and food services.

Kuwait University Student Activities and Athletic Facilities
LOCATION: KUWAIT CITY, KUWAIT

The Student Center component of the central facilities, will house programs essential to students’ day-to-day, such as the University Bookstore, Guidance and Counseling Services and a Market Style Food Service Hall. The two buildings that make up the Activities Center and Athletic Facilities, are positioned centrally in the Master Plan and will be traversed by most of the campus population on a daily basis. As such, they represent a sort of social hub within Kuwait University where students, faculty and visitors of disparate fields can meet and exchange ideas in an informal setting.

The New School University Center

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Primary and Secondary

SOM Education Lab creates spaces that support learning and foster creativity. Working with both private and public schools, SOM Education Lab develops facilities that encourage creativity and engagement. Every design solution satisfies the current programmatic needs and also provides long term flexibility.

**St. Albans School Marriott Hall**

**Location:** Washington, DC

Keeping Olmsted’s master plan in mind, SOM created a new extension at the heart of the campus seamlessly interconnects disparate internal floor levels and external public spaces. The extension creates better physical and visual connections to the Cathedral, enhances views to central Washington, improves potential circulation sequences, and interconnects potential interior and exterior spaces. Four processional pathways link upper and lower levels and create a continuous circulation system that unifies the campus. Informal seating areas and a cafe are located along the circulation path to encourage informal meeting and extend the learning beyond the classroom walls.

**Brunswick School Upper School**

**Location:** Greenwich, Connecticut

After creating an entire new campus for the Lower and Middle Schools at the Edwards Campus, SOM renovated Brunswick School’s Maher Avenue campus into an Upper School complex. This new entrance provides space for gathering before classes and performances. SOM’s circulation solution unites the existing campus visually and physically. The old gymnasium has been converted into a Performing Arts Center that includes a black box theater, band and choral rooms, and a state-of-the-art auditorium.

**Greenwich Academy Upper School & Library**

**Location:** Greenwich, Connecticut

Greenwich Academy’s new Upper School and Library unifies the campus and enhances the site’s natural beauty. The site’s topographical complexity was used to join the campus’s upper and lower levels through the medium of a building. Light is central to the design; the project featured a collaboration with light artist James Turrell.

**Deerfield Academy Koch Center for Science, Math & Technology**

**Location:** Deerfield, Massachusetts

In developing this science building for a leading private boarding school, educational opportunity was maximized by co-locating three academic disciplines: science, mathematics, and technology. The building takes advantage of grade changes between the higher and the lower campus levels. Architecture is extended into the landscape and building walls become site retaining walls. Program spaces are filled in between the walls, sloping down towards their ends and forming a terraced green landscape with garden roofs throughout.

**Brunswick School Lower School & Gymnasium**

**Location:** Greenwich, Connecticut

The lower school building completes phase II of construction of the Brunswick School Edwards campus. The building is organized around a central atrium, which provides daylight to the school’s large group assembly rooms. Glass atrium walls reveal the library, cafeteria, art, music, and multi-purpose rooms. The multi-purpose room functions as both a gymnasium and a theater while overlooking Brunswick’s new football stadium. Exposed structural wood trusses reveal the building’s didactic nature and provide a warm materiality. At either end of the atrium, groups of classrooms cluster around a day-lit hall providing each grade level with its own break out space.

**Burr Street Elementary School**

**Location:** Fairfield, Connecticut

One of the school’s primary design objectives is the incorporation and integration of architecture and landscape. This design is achieved through the campus plan which includes curved, circular, landscaped courtyards and open spaces. The integration is furthered by an “indoor landscape”, literally bringing the outdoors in. The exterior of the buildings are clad in natural, locally-occurring stone that preserves the “country road” feel of the immediate community and provides a physical and visual connection to the surrounding environment.
The project consists of several interventions to the existing brutalist building, completed in 1972. Small interventions in the interior of the building help to define “districts” within the K-12 building, so that each school, the Junior School, Middle School, and Tutorial House, has its own identity within a single building. The ground floor of the building is reconfigured to allow for eased pedestrian access from the street, and to provide river views from a new lobby and cafeteria. The interventions that require new construction such as the new Kindergarten wing and the new Athletic Center are constructed from a lightweight fiberglass and glass wall system to contrast the heavy precast concrete facades of the existing building.

The new University Center will provide students and faculty with much needed academic and social spaces within one building. The varied program includes an auditorium, the main university library, lecture halls, classrooms, laboratories, distant learning center, informal study spaces, a cafeteria, retail cafes, and a 600-bed dormitory with a fitness center.

One major design challenge was to integrate these academies both physically and conceptually, achieving the spatial and scalar efficiencies of combination while creating a distinct identity for each. The chosen solution locates the academies in discrete blocks on two upper floors, and aggregates shared functions (the cafeteria, auditorium, gymnasium) on the two lower floors. While the shared functions are concentrated within a durable masonry base, the classrooms and science labs have glass curtain walls and abundant natural light.
INSPIRATION AND PERFORMANCE
Sports Design

SOM Education Lab’s state-of-the-art training centers and athletic facilities support a seamless inter-connectedness between training, learning, health and fitness. Careful design of training facilities can help athletes and teams to train at a higher level. Our facilities maximize performance by providing focused learning and training environments.

Syracuse University Carmelo K. Anthony Basketball Center

LOCATION: SYRACUSE, NEW YORK

The Basketball Center is designed as a focused learning center that will both attract and retain top athletes in the competitive world of NCAA Division 1 athletics. The 57,925-square-foot building includes two NCAA regulation-size basketball courts, strength and conditioning rooms, hydrotherapy pools, classroom space, a video room, offices for coaching staff, and locker-room facilities for the men’s and women’s teams. The Center is the first step in realizing a greater master plan to reorganize and revitalize the entire Lampe Athletic Complex. The organizational intent of the facility is to provide efficiency, focus the athletes on their practice, and showcase the Syracuse University Basketball Program.

Brunswick School Fieldhouse

LOCATION: GREENWICH, CONNECTICUT

The New Field House provides 31,000 square feet of flexible indoor practice space for Brunswick’s athletic program. Gym space is supported by school locker rooms and team rooms, an athletic director’s office, full trainer room, coaches locker room, and a deluxe varsity football room. The versatile main space contains 4 basketball courts, which can alternately transition into 4 indoor tennis courts or 3 tennis courts and a separate competitive wrestling center. High ceiling clearance allows the ability for indoor lacrosse and football practice while a central skylight provides consistently inspiring lighting. With its slender barn form and understated facade, the field house forms the backdrop to Brunswick’s new artificial turf field football stadium.

Marist College Tenney Stadium

LOCATION: Poughkeepsie, New York

The construction of this multi-sport stadium complex marks a significant advancement for athletics at Marist. The facility includes an artificial turf field and a stone-faced 2,000-seat precast concrete grandstand. The ground level field house contains two large, day-lit varsity locker rooms with showers, a medical training room, an equipment room, and support spaces. The grandstand features a large press box, served by elevators, that is equipped with a state-of-the-art sound system and wireless communications. VIP hospitality wings provide seating for 120 people with a fully operable window wall facing the field.

Kuwait University Student Activities & Athletic Facilities

LOCATION: SHADADIYA, KUWAIT

The roughly 8,000 square meter Main Athletics, Recreational and Aquatic Centres (there will be two, one for each the Women’s Campus and the Men’s) will serve as the primary facilities for student sport and active recreation. The facilities will include several gymnasiums capable of accommodating basketball, volleyball, handball and badminton, as well as an Olympic-size swimming pool and diving facility. In addition to providing support spaces for both University team athletics and for students and faculty, the buildings will also provide for a series of spectator seating spaces, and dedicated circulation.

NY Jets Headquarters and Training Facilities

LOCATION: FLORHAM PARK, NEW JERSEY

The NY Jets new training facility and corporate headquarters combines two functions on a single site. The 120,000 sf campus building houses locker room and physical training facilities, coaching offices and coaching classrooms, auditorium, cafeteria, and office space for the Jets football and business operations. The interior will incorporate state-of-the-art video technology and will support the staff’s 24/7 lifestyle. The program calls for two natural turf fields, one artificial turf field and one indoor artificial turf field. The campus plan accommodates the National Football team’s criteria for field solar alignment and placement.

Deerfield Academy Natatorium

LOCATION: DEERFIELD, MASSACHUSETTS

Deerfield Academy began an expansion that included a 37,000 sf gymnasium extension with an Olympic-sized pool, 14-ft deep diving pool, three regulation squash courts, and supporting facilities. The school’s extensive campus was designed by Charles Jeffrey Platt in the early 1930s, with his Gymnasium a strong and simple structure combining the form of an old tobacco barn with classical detailing. The new building extends the Gymnasium to the south, integrating the old and new buildings architecturally and setting a useful precedent for the next phases of campus growth.

Sports Design

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Skidmore, Owings & Merrill LLP
SOM Education Lab

**Chicago 2016 Olympic Master Plan**

Location: Chicago, Illinois

SOM, under the direction of the City of Chicago and Chicago 2016, participated in the development of the physical plan for Chicago’s bid to host the 2016 Olympic and Paralympic Games. At the geographic center of the plan is the Olympic Village, which was designed to provide housing, training, and support facilities for athletes. SOM developed conceptual planning for a Village that would, following the Games, be transformed into a mixed-use, mixed-income community designed to revitalize the area and reconnect adjacent neighborhoods to the lakefront. Compactness, accessibility to transit, and integration into both downtown and the lakefront are guiding principles of the plan.

**Brunswick School Athletic Center**

Location: Greenwich, Connecticut

SOM designed the 65,000-square foot Athletic Center to serve both middle school and upper school athletes. The building’s central element, housing the main entrance and the squash and locker room facilities, is an elegant brick structure connecting two long span spaces on either side that enclose a hockey rink and basketball courts. The design features an NCAA regulation-size hockey rink, basketball courts, eight international-size squash courts, weight training space, locker rooms, and a trophy reception hall.

**East Campus Tennis Pavilion**

Location: Poughkeepsie, New York

The East Campus Tennis Pavilion creates a central green space and pedestrian walkway extending from the end of the east campus to the Hudson River lined with buildings and informal meeting areas. SOM designed the world-class outdoor tennis center to fit comfortably into the heart of Marist’s residential campus. It features eight regulation-size courts built to U.S. Open specifications with state-of-the-art playing surfaces and lighting, a center walkway, and a pergola-covered spectator area. When the landscape vines mature, this 240-ft heavy-timber pergola will provide shade for spectators and students in residence on the east campus.

**NY Jets Headquarters and Training Facilities**
On the Boards

Current Projects

SOM operates globally and locally with a full range of projects in various stages of planning, design and construction.

The New School, University Center
New York, New York

This new, multi-purpose building, located at the intersection of 14th Street and 5th Avenue in Manhattan, is intended to become the currently missing center, or “heart,” of The New School. This “University Center” building will provide space for all aspects of the New School including an auditorium, the primary library, lecture halls, studios, dining facilities, cafes, classrooms, student centers, a faculty center, a university resource center, offices and provisions for science laboratories. In its urban context the project is designed to conform to the massing and relative scale of neighboring buildings. However, in appearance, the new building will reveal to the public certain aspects of the activities that go on within. With this transparent design, the façade reveals the internal circulation providing as an interactive extension of the diverse activities inside. The resultant building will become a vertical campus center for The New School that extends into its urban environment, bringing the city, the campus and the classroom together. The project has a target of LEED® Gold certification.
P.S. 62 will be the first net-zero energy school in New York City and one of the first of its kind worldwide. The 68,068-square-foot, two-story school will serve 444 pre-kindergarten through fifth grade students. When completed, the building will harvest as much energy from renewable on-site sources as it uses on an annual basis.

SOM’s design optimizes the orientation and massing of the courtyard-shaped building to take advantage of sunlight for both ample daylighting and photovoltaic arrays on the roof and south façade. Other sustainable and low-energy features incorporated in the design include an ultra-tight high-performance building envelope, daylit offset corridors, energy-efficient lighting fixtures, low-energy kitchen equipment, a greenhouse and vegetable garden, a geo-exchange system, energy recovery ventilators and demand-control ventilation, and a solar thermal system for hot water.
SOM is currently working with the Horace Mann School on significant additions to its North Campus that include a new Science Center Building, a new Natatorium, a new Student Center Building, and a Fitness Center addition to the existing Athletic Center.

The three new buildings will wrap around the current Athletic Center and will create a direct connection to the adjacent Fisher Hall and cafeteria. By creating pathways that flow through the new and old structures, these additions help strengthen the identity of the campus and connect the new facilities to the rest of the quad, thereby enhancing student services and resources.

The Science Center Building will be an iconic structure that responds to the materiality of existing buildings on the campus while creating a new identity for the science program. The multi-level Student Center Building creates much needed public space for students by serving as a central gathering area that encourages interaction between members of the larger school community.

To expand competitive and recreational opportunities for their students, Brunswick School commissioned SOM to design a new swimming pool facility at the Edwards Campus. The 21,000-square-foot Natatorium accommodates competition swimming and water polo. It will provide an 8-lane, 25-yard pool with two 1-meter diving boards, team locker rooms, offices, and seating for 180 spectators. An athletic field on the roof provides additional practice space for a variety of sports activities.

The facility is designed to blend in with the surrounding landscape. Built into the gentle slope of the terrain, the building skillfully integrates into the campus by respecting the heights of nearby structures. The elegant combination of glass and Greenwich fieldstone—a local stone used frequently on campus—reinforces the school’s style and identity. A retaining wall of the same Greenwich fieldstone surrounds the entire site of the structure. This wall not only helps clearly define entries into the building, it also encloses a new courtyard that will serve as a public gathering space between the Natatorium and the adjacent cafeteria.
Memorable architecture is the product of collaboration and innovation—two forces that, along with our drive for excellence, remain SOM’s defining traditions. SOM’s outstanding record of innovation is represented by such recent work as the Tenney Stadium at Marist College, Northwest Science Building at Harvard University, Marriott Hall at St. Albans School and classic designs such as the Chapel at the United States Air Force Academy and the Beinecke Rare Book and Manuscript Library at Yale University.