AZarchitectureGUIDE

Architecture Award Guide 2000 - 2010

American Institute of Architects | Phoenix Metro

Phoenix Metro Guide to award winning public buildings

INDEX

Projects selected for the architectural guide were taken from AIA state design award winning buildings since the year 2000. Projects that are accessible, public and within the Phoenix Metro area have been included in this document, indicated in **bold** in the index below.

2000

2001

2002

2003

2004

	Stevie Eller Dance Theatre	Gould Evans Associates
	Nevada Museum of Art	Will Bruder + Partners
	SHADE - ASU Downtown Study [u]	DeBartolo Architects
16	**AIA Arizona Headquarters**	**Mark Roddy / Jorge Colon**
	Patrick K. Hardesty Midtown Multi Service Center	GLHN + Architekton
17	**South Mountain Community College Performing Arts Center**	**Jones Studios**
	Desert Broom Branch Library [u]	Richard + Bauer
18	**Farmer Studios**	**Architekton**
	ASU East Campus Student Union [u]	Gould Evans Associates
19	**PFA Children's Pavilion**	**DeBartolo Architects**
	Cedar Street Resident	coLAB
	Community Performing Arts and Learning Center	Burns and Wald-Hopkins
20	**Phoenix Municipal Stadium Renovation**	**Gould Evans Associates**

2005

21	**Banner Estrella Medical Center**	**Orcutt I Winslow and NBBJ**
	Garden Home Studio	McCoy and Simmon
22	**Biodesign Institute at ASU**	**Gould Evans + Lord Aeck Sargent**
23	**Loloma 5**	**Will Bruder + Partners**
24	**Desert Broom Branch Library**	**Richard + Bauer**
25	**ASU East Campus Student Union**	**Gould Evans Associates**
	44th & Camelback	Circle West Architects
	Oakwood Church	Michael Underhill
	Quincie Douglas Library	Richard + Bauer
	House of Five Dreams	Jones Studio

2006

	UofA Meinel Optical Science Building	Richard + Bauer
	Xeros Residence	Blank Studio
26	**Lost Dog Wash Trailhead**	**Weddle Gilmore**
	Field House	Wendell Burnette Architects
27	**ASU Interdisciplinary Science & Technology Building 2**	**Richard + Bauer**
	DDBC Residence 1	Drachman Design-Build
28	**The Duke**	**Circle West Architects**
29	**Interdisciplinary Science & Technology Building 3**	**Jones Studio**
	UofA College Medicine	SmithGroup
30	**US Arid-Land Agricultural Research Center**	**SmithGroup**
	LandSource Tempe [u]	Circle West Architects
	2046 Studio/Bedroom Addition	Studio Twenty 46 Inc.

2007

31	**Prayer Pavilion of Light**	**DeBartolo Architects**
	Goodhouse	Circle West Architects
	007 House	Rob Paulus Architect
32	**UofA College of Medicine Expansion**	**SmithGroup**
	Barrio Metalico	Rob Paulus Architect
33	**The Galleries at Turney**	**Shepley Bulfinch [merz]**
	Glen Allen Community Church	DeBartolo Architects
	Longbow Parcel 7 [u]	Circle West Architects
	The Can House [u]	Mark Roddy, AIA
34	**ASU Interdisciplinary Science & Technology Building 1**	**Perkins + Will and Dick & Fritsche Design Group**

2008

35	**City of Scottsdale Arabian Branch Library**	**Richard + Bauer**
	Taxi Mixed-Use	Will Bruder + Partners
36	**Sun Devil Energy Center at ASU**	**Gould Evans**
37	**PRD845**	**Studio Ma**
	Social Condenser	Blank Studio
	VH R-10 gHouse	Darren Petrucci, AIA
38	**Cesar Chavez Library**	**Line +Space, LLC**
39	**The Commons, East Valley**	**DeBartolo Architects**
	Garcia Residence	Ibarra Rosano Architects
	Hercules Public Library	Will Bruder + Partners
40	**Peoria Center for the Performing Arts**	**Westlake Reed Leskosky**
	NorthPark Center	Omniplan

2009

41	**Optima Camelview Village**	**David Hovey & Associates**
	Relic Rock	David Hovey, Jr. AIA
42	**ASU Polytechnic Academic Complex**	**LakelFlato Architects + RSP Architects**
43	**Papago Gateway Center**	**SmithGroup**
	UofA College of Architecture and Landscape Architecture	Jones Studio
	James E Rogers College of Law Renovation UofA	Gould Evans Associates
	Helen S. Schaefer Poetry Center	Line and Space
44	**City of Phoenix Maryvale Pool House**	**Holly Street Studio**
45	**City of Peoria Sunrise Mountain Branch Library**	**Richard + Bauer**
	Balboa Theatre Restoration	Westlake Reed Leskosky
	Scottsdale Museum of the West [u]	Jones Studio, Inc.
	AGRI [localism] [u]	Gensler
46	**Sam Garcia Western Avenue Library**	**SmithGroup**

2010

47	**Agave Library**	**Will Bruder + Partners**
48	**Scottsdale Community College Natural Sciences Building**	**Richard + Bauer**
	Desert House	Peter Koliopoulos, AIA
49	**Black Rock Studio**	**Weddle Gilmore**
50	**Tempe Transportation Center**	**Architekton and Otak**
	Yuma Heritage Library	Studio Ma
51	**Gateway to the McDowell Sonoran Preserve**	**Weddle Gilmore**
52	**Henkel North American**	**Will Bruder + Partners**
53	**Saguaro Building Mesa Community College**	**SmithGroup**
54	**George**	**Studio Ma**
55	**Safari Drive Condominiums**	**The Miller Hull Partnership**
56	**Mezzo**	**Will Bruder + Partners**
57	**Paradise Valley Community College Life Sciences Building**	**Marlene Imirzian & Associates**
	Prescott Valley Library + Yavapai College	Richard + Buaer
58	**Freeport-McMoRan Center**	**SmithGroup**
	Banner Health Primary Data Center	Gensler
	Bank of America Branch Bank [u]	Gensler
	Expansion and Modernization of the Mariposa Land Port of Entry [u]	Jones Studio
59	**Chandler-Gilbert Community College Ironwood Hall**	**Architekton**
60	**Downtown Phoenix Civic Space Shade Canopies**	**Architekton**
61	**City of Phoenix Harmon Branch Library**	**Richard + Bauer**
	One North Fifth	Rob Paulus Architects
	Girl Scouts Arizona Camp Sombrero [u]	Marlene Imirzian & Associates

[u] unbuilt award

01 NAI HORIZON CORPORATE OFFICE BUILDING 2000

2944 N 44th Street, Phoenix, AZ 85018

Jones Studio

The NAI Horizon Corporate Office Building establishes a new model for spec office buildings focused on distinguished architecture and climactically sensitive design. The project, constructed for only $88 per square foot in 1998, is wrapped in a recycled saw dust and polymer plastic lattice that establishes its distinctive character while also serving as a protective sunshade for the floor-to-ceiling glazing behind.

The lattice, combined with a solar sun filter, operable windows for natural ventilation and ample daylighting have helped the building achieve reduced energy costs by 22%.

photo: Tim Hursley

02 ASU WOMENS SOCCER & SOFTBALL STADIUMS 2000

ASU, 655 S Athletes Place, Tempe, AZ 85287

Jones Studio

This Arizona State University Women's Softball & Soccer Stadium consists of a small complex of two women's sports stadiums and support facilities set into existing playing fields and mature landscape defined by 15-foot tall hedgerows.

The design of each stadium was generated through careful site analysis and particular attention to the building section diagram. Proper viewing sight lines, structural efficiency and economy, programmatic volume and landscape integration informed each building's shape, material palette and natural lighting opportunities. At the time of its completion in 1999, the softball complex was regarded as the best collegiate facility in the country.

photo: Tim Hursley

03 GCC HEALTH CAREERS EDUCATION 2000

Gateway Comm College, 108 N 40th Street, Phoenix, AZ 85034

Gould Evans + Kahler Slater

Completed in 1999 at a cost of $8M, the Center for Health Career Education at Gateway Community College is a mirror image of a fully functioning hospital. Classroom and lab areas simulate sixteen health care specialties as well as medical office, hospital, and home health care settings so students can hone their skills with real-life practice before entering the workforce. A double-height lobby carves through the predominantly masonry building, connecting the main entry with flexible outdoor spaces for student interaction.

The two-story faculty office wing faces east to take full advantage of distant mountain views and natural light. Sun protection is celebrated on the east façade with a suspended sunscreen constructed from standard aluminum extrusions and custom bent aluminum plates. In contrast, slim, slotted windows are systematically punched into the masonry with proportions that mimic yet counter the panelized sunscreen.

photo: Bill Timmerman

04 EARLY CHILDHOOD EDUCATION CENTER 2000

PFA, 13613 N Cave Creek Road, Phoenix, AZ 85022

debartolo architects ltd.

Sited in the steep foothills of the Shadow Mountain range within a 60-acre master plan, the 30,000 s.f. Early Childhood Education Center integrates spatial variety, texture, form, light and shadow into a new 'village' for children's imaginations. Housing 500 children from infancy to 5 years old, the facility utilizes shaded outdoor circulation and takes advantage of the temperate climate to create a form derived from the site contours, solar orientation and distant vistas.

Through progressional moves up the desert slope, the thirty classrooms offer direct access to age-specific, complex perspectival, garden courtyards. Level changes are achieved with converging perforated metal ramps that bridge the desert. Incremental in-situ concrete stems mediate the terrain and form a horizontal base for the plaster frame walls while slot-skylights, light tubes and windows puncture the building and invite natural light throughout the complex as a kinetic animator.

photo: Bill Timmerman

05 ASU ALUMNI CENTER / OLD MAIN 2000

Arizona State University, 400 E Tyler Mall, Tempe, AZ 85287

Van Dyjk Pace Westlake and Douglas Architecture and Planning

One of the oldest remaining buildings on campus, Old Main at Arizona State University had seen many changes over its over one-hundred year history. The Victorian era structure was dedicated February 4, 1898 and President Teddy Roosevelt dedicated the Roosevelt Dam from the front stairway in 1911.

The building has been restored to period standards and it is listed on the National Register of Historic Places. Renovations feature the restored third floor ballroom, the historically accurate re-creation of the grand entry and balconies, and the conversion of the ground floor into the headquarters for ASU's Information Technology Department. Interestingly, the third floor ballroom was long forgotten and hidden by a 1950s remodel until it was re-discovered during an existing conditions investigation for this project.

photo: Hedrich Blessing

06 GCC PHYSICAL SCIENCE BUILDING 2000

Glendale Comm College, 6000 W Olive Ave., Glendale, AZ

Richard + Bauer

The contrast of heavy mass against an arcaded columnar walkway gives the existing campus its collegial feel. The Physical Sciences Building gains inspiration from the sixties-era campus, reinterpreting its vocabulary of massive walls, exterior arcade walkways and ample natural light. Braced roof edges contrast against large, sloping wall planes that recall tapered masses found throughout campus while the bracing recalls existing pedestal columns. Daylit perimeter labs flank the lab prep and service core, allowing for clear separation of student and staff circulation. The student commons and faculty offices serve as the hub of the building with student study areas and displays to encourage interaction. Exposed concrete tilt slab and masonry walls are used in combination with ground concrete floors and exposed steel structure to express the building tectonics while natural maple plays against these hard materials to add warmth. Mechanical and electrical service modules are enclosed in galvanized steel siding while ductwork, conduits and piping are all organized and exposed to delineate their function.

photo: Bill Timmerman

07 SANDRA DAY O'CONNOR US COURTHOUSE 2002

401 W Washington, Phoenix, AZ 85003

Richard Meier & Partners + Langdon Wilson

A light-suffused response to the Southwest, the 571,000 sf six-story federal courthouse features 19 courtrooms and judicial chambers, ceremonial proceedings courtroom, judicial support facilities, a cafeteria and offices.

The L-shaped building's exterior massing harmonizes with the indigenous rectilinear geometry of its urban context, but the focus is a 115-foot-high atrium clad in transparent and fritted glass. The atrium is passively cooled by adiabatic cooling — through evaporation rather than heat exchange — and a misting system, resulting in significant energy savings. The centerpiece of the atrium is the Special Proceedings Courtroom — a two-story glass cylinder elevated on a podium. A broad staircase serves as a processional to this upper level.

Structural framework provides definition: Steel columns rise the full height of the building, and mullions project in relief.

photo: Need Name

08 SCC FITNESS & WELLNESS CENTER 2002

9000 E Chaparral Road Scottsdale, AZ 85256

Architekton

the Scottsdale Community College Fitness and Wellness Center draws its queues from the physical functions within. An extensive program including aerobics studios, a circuit room, aerobic and free weights area, locker rooms, classrooms, an indoor jogging track, and administrative offices combined with a limited budget led to the selection of efficient building systems throughout the project. For example, the building's pre-engineered metal structure contributed to a final $85 per square foot cost.

To add interest and transition from the pedestrian malls to the interior, the building's metal frame is cut away to create porches that allow for a brief moment in the shade or the eyes to adjust to the changing light. Efficiency wasn't only a goal for the structure - simple Z-purlins create a metal trellis structure that shades critical elevations from direct sun while allowing abundant daylight into the interior, decreasing energy costs.

photo: Bill Timmerman

09 JOHNSON CARLIER BUILDING 2002

738 S 52nd Street, Tempe, AZ 85281

Jones Studio

The Johnson Carlier Office Building imparts a tough, protective architecture that assures its occupants a day lit, open, yet private work environment. The structure and materials were selected for performance and economy, no more and no less than what was necessary. Concrete masonry units create a protective wall that surrounds the building and serves as structure, interior finish, exterior material, screen wall, and an early morning sun filter.

The most expressive moments face the street where rotated cmu becomes a visually translucent element and light penetrates the otherwise heavy perimeter walls. 1,730 eastern-facing cmu cells are individually glazed yet their depth provide shade. Hunkering low on the horizon, the building's design reflects traditional desert architecture. An integrally designed rain harvesting system feeds the xeriscape landscaping and cold rolled steel siding gains a natural rust patina requiring little maintenance.

photo: Bill Timmerman

10 **ADELPHI COMMONS ASU** 2002

Arizona State University, Tempe, AZ 85281

Gould Evans

The Adelphi Commons redefines sorority student living. The traditional sorority house is often a renovated home in a residential neighborhood sited adjacent to the academic campus. The houses, although adjacent, are isolated from their neighbors. In the Adelphi Commons, each house is designed with flexible space that allows the sorority to function independently or as part of the broader community. Twelve sorority houses knit into an interconnected community where each house faces a pedestrian 'street' on one edge and a common central lawn on another. Facing the 'street,' each house has an enclosed courtyard. Individual study areas and the chapter room surround the courtyard to encourage social interaction throughout the day. When enclosed, the courtyard is a peaceful outdoor 'living room' where students can study, relax or sit with friends. When the double-height chapter room's glass doors open and the courtyard's screens roll away, each sorority's courtyard extends into the pedestrian street, allowing the houses to function as one community for shared social and academic functions.

photo: Bill Timmerman

CGCC STUDENT CENTER 2003

2626 East Pecos Road, Chandler AZ 85225

Architekton

The 20,000 square-foot Chandler-Gilbert Community College Student Center relocates the center of a quickly expanding campus. opaque west and north facades gradually rise toward a 35' cantilever that engages the pedestrian spine though campus. the cantilever acts as a 'front porch' with a 12' diameter fan that adds a cool breeze to encourage student and faculty gathering in the shade. Additionally, insulated blue glass and aluminum operable exterior walls open vertically to encourage indoor/ outdoor events throughout the school year.

The simple building form is clad in an aluminum trellis, set 10' in front of the building face, which offers shade and casts changing shadows on the building's mustard and charcoal grey concrete block walls. At night, the pavilion glass becomes a lantern, announcing Chandler-Gilbert Community College to the surrounding community.

photo: Bill Timmerman

12 **MARIPOSA RESIDENCE** 2003

120 E Mariposa Street, Phoenix, AZ 85012

debartolo architects ltd.

Authentically simple environments are the outcome of complex processes. The Marioposa Residence, a home for ten Brophy Jesuit Priests, draws inspiration from two existing white-flowering oleander hedges on the east and west margins of the project site. These massive 'shade corridors' serve as the primary movement axis in the north-south direction. Much like the landscape walls, the program called for three bars of program with a clearly defined public and private zones separated by spare desert courtyards. Based on simple principles of light, shade, orientation, scale and proportion, the house is shaped and sculpted by climate and function where many of the spaces have a singular relationship to light. For example, the meditation chapel is wrapped in channel glass – it is a cube filled with light that remains private. With great effort to minimize detail, the house takes on a quiet presence where the focus becomes the light, space, and environment more than the container.

photo: Bill Timmerman

13 CGCC PERFORMING ARTS CENTER 2003

2626 E Pecos Road, Chandler, AZ 85225

Gould Evans

The 21,000sf, 299-seat Chandler-Gilbert Community College Performing Arts Center integrates form and function into a performance hall that announces its three programs, theater, dance and music, to the surrounding community. As patrons enter the facility, they traverse a ceremonial ramp that terminates under a protected outdoor lobby and outdoor performance hall. Interestingly, the outdoor hall integrates an air-handling unit into a solid mass that acts as a design feature and provides the necessary acoustical separation from the interior performance hall, finding opportunity in technical constraints.

The building materials of integrally colored concrete block and dark natural metal panel compliment the surrounding campus context while dramatic lighting creates a nighttime image that acts as a beacon to announce performance night.

photo: Bill Timmerman

STUDIOS 5C 2003

502 S College Avenue Tempe, AZ 85281

RSP Architects

Studios 5c is a 26,000sf office building on a quarter-acre site with a compact and dynamic environment for creative professionals. Many of the design elements - high ceilings, exposed structural members, natural concrete masonry units, bare concrete floors and industrial style windows - reflect an aesthetic reminiscent of industrial loft conversions.

Set in downtown Tempe, the project adds life to the street through the incorporation of a first-floor restaurant combined with offices for creative professionals, executive suites, an interim transit center for the City of Tempe, and a parking garage. Additionally, circulation spaces are pulled outside the building skin to celebrate and highlight the dynamic movement of the building's users while minimizing air-conditioned interior space.

photo: Mark Boisclair

PHOENIX CHILDREN'S HOSPITAL 2003

1919 E Thomas Road, Phoenix, AZ 85016

HKS / Stein-Cox

Planned with family-centered care in mind, the Phoenix Children's Hospital improves the hospital experience for families and patients. Children in pediatric facilities are often separated from a sense of normalcy and everyday life, such as playing with other children. The new facility will create spaces designed to promote valuable interaction with others in an environment reflective of daily settings. Simple materials and colors will echo desert architecture while also creating a vibrant environment for children.

Colors are placed to create a unique campus visual language and symbology. For example, yellows are placed at entries for ease of wayfinding and greens are utilized in taller spaces and as accents to reflect the greens of the desert, such as in the decorative metal saguaro abstract artworks.

photo: Gary Knight

16 AIA ARIZONA HEADQUARTERS 2004

30 N 3rd Avenue #200, Phoenix, AZ 85003

Mark Roddy, AIA + Jorge Colón, AIA

The AIA Arizona Offices are located within downtown Phoenix's historic 1920's neo-classical Walker Building. The contemporary design insertion celebrates the existing structure by creating spaces that prioritize neither the old nor the new and allow spaces that are in-between. The open office plan uses the simple placement of horizontal and vertical planes constructed of light-gauge metal framing and drywall to create a series of flowing spaces housing a flexibility of functions.

The AIA office can operate as a public forum, functional office space, a gathering place for formal events, a casual seminar space, or in any combination. The generic white walls are equally flexible and claim no style or time period. Like a conventional gallery space, the AIA office is neutral, minimal and brought to life by the activities of its staff, the information it provides and the events it hosts.

photo: Mark Boisclair

17 **SMCC PERFORMING ARTS CENTER** 2004

7050 S 24th Street, Phoenix, AZ 85042

Jones Studio, Inc.

The 43,000 sf center comprises a 350-seat theater, 100-seat black box theater, supportive space, offices and classrooms.

Constructed of sandblasted concrete masonry, the building features a steel-framed cap at the elevated lobby façade and wrapping to the adjacent sides: Overlapping shapes peel away to reveal glazing in areas where light locks are not required. The rusted exterior cladding dissipates heat like needles on a saguaro, the indicator species of the Sonoran Desert. So, too, the rugged violin case protects the violin.

The mass transitions from the opaque stage end to the translucent glass lobby, which serves as an arts beacon to the community while transforming patrons into illuminated performers before and after performances. Inside, eucalyptus-veneered soundboards create multi-use acoustical space that performs like a tunable instrument.

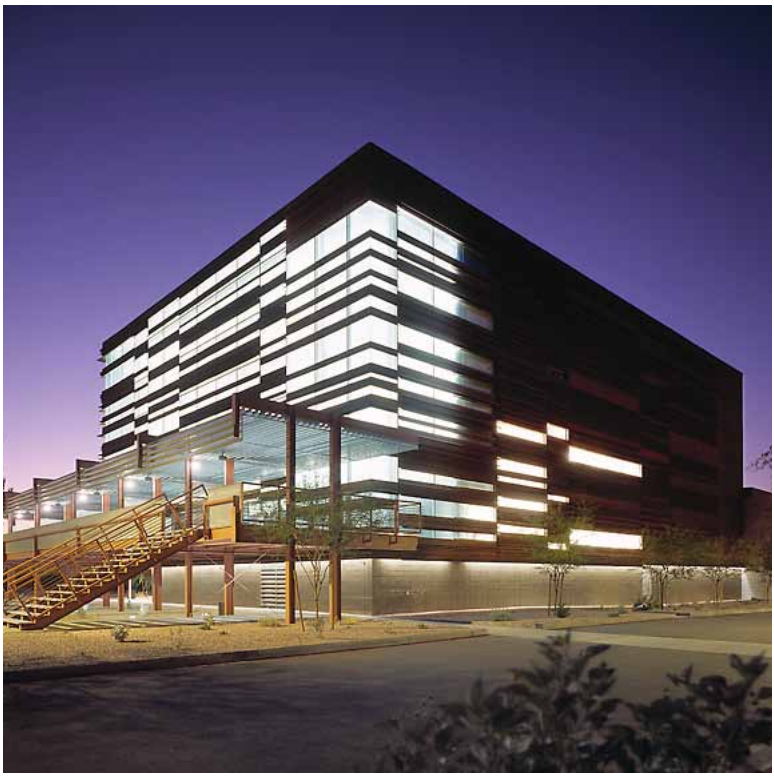

photo: Mark Boisclair

18 FARMER STUDIOS 2004

464 S Farmer Avenue, Tempe, AZ 85281

Architekton

Flexibly configured for retail or office/residential studios, the 13,000 sf building offers transition between the vibrant university downtown and the Sunset/Riverside residential area to the west. Shade canopies, trees, street parking and protruding windows reinforce the pedestrian-friendly design.

A sustainable building, most materials are locally produced or recycled, parking for the one-acre site is a “gravel pave” system to reduce the heat island effect and retention requirements and increase aeration for the adjacent bosque, and rainwater is captured in a sunken courtyard.

Steel and CMU construction articulates the building’s five modular bays. A custom shade device protects the upper-level glazing from direct sunlight; counterbalanced internally, it allows for insulated translucent panels to be slid onto the exterior. A fixed cantilevered translucent panel shades the lower-level glazing.

photo: Architekton

19 CHILDREN'S PAVILION 2004

13613 N Cave Creek Road, Phoenix, AZ 85022

debartolo architects ltd.

The Children's Pavilion is a simple building transformed by its skin. Part of the Phoenix First Assembly master plan, the pavilion is a flexible facility with broad expanses of glass on the north and east facades that open and close depending on need. A space that typically accommodates 400 inside can open to seat over 1,000 both inside and outside. The roof extends 30' beyond the glass, protecting the interior from intense direct sun while offering shade and weather protection to the exterior event plaza.

Events range from casual to formal, supported by a flexible space with exposed structure that can be transformed by light and seating. Due to its flexibility, the facility is used for a myriad of events including campus dinners and banquets, seminars, and children's activities. The durable material palate of steel, glass and exposed concrete has sustained four years of heavy use and continues to be one of the most utilized spaces on campus due to its unique environment and functionality.

photo: Bill Timmerman

PHOENIX MUNICIPAL STADIUM RENOVATION 2004

5999 E Van Buren Street, Phoenix, AZ

Gould Evans

The renovation and addition to the Phoenix Municipal Stadium, the preseason home of the Oakland Athletics, enhances the existing building's 1960's modern character, beauty of the desert site, and opportunities for fan and player interaction. The project utilizes multiple building additions to unify the complex into an engaging and integrated fan experience. This experience begins with two new entry points marked by metal mesh screens and graphic signage that lend a bold identity to the stadium. The primary stadium entry remains with upgraded amenities such as enhanced ticketing, hardscape and landscape improvements, and integrated environmental graphics that weave throughout the park telling its story as the first Cactus League Park in Arizona. In addition, approximately 5000sf of conditioned space slips under the landmark ballpark structure. The new Press Box houses up to thirty members of the press, a multi-purpose room, and an outdoor elevated deck as it activates the center concourse and provides retail vendor opportunities at the pedestrian level.

photo: Bill Timmerman

BANNER ESTRELLA MEDICAL CENTER 2005

9201 W Thomas Road Phoenix, AZ 85037

Orcutt | Winslow in association with NBBJ

The 440,000 SF, 172-bed, Banner Estrella Medical Center balances the science of medicine with a holistic “mind, body and spirit” healthcare experience within the desert community. Soothing colors, natural light, vivid gardens, a meditation chapel, and massage therapy rooms create a healing environment within the healthcare setting.

The first of the franchise model, Banner’s need to accommodate a future population boom became one of the key drivers for the phased strategy. Major features and departmental locations were designed to maintain the hospital’s image in a manner that would allow for growth. Additionally, operational efficiency and effective processes greatly impacted multi-disciplinary teams’ functional adjacencies throughout. Operational efficiency was also seen as a function of service - satisfaction is measured at all levels. The needs of the family are addressed as an encompassing approach to the patient’s treatment where choices and flexibility in care are paramount.

photo: Frank Ooms

ASU BIODESIGN INSTITUTE 2005

727 E Tyler Street, Tempe, AZ 85287

Gould Evans + Lord Aeck Sargent

Interdisciplinary research is at the heart of the Biodesign Institute's strategy and inspiration, bridging across disciplines, industry, government and academia. Labs and offices promote communication and collaboration through the extensive use of glass combined with open gathering spaces that converge around the light-filled atrium.

Buildings A and B comprise the first phases of an intensive research corridor. Their strategic siting speaks to both campus and community. Situated on campus and owned by ASU, the Institute houses self-supported researchers who regularly collaborate with regional, national, and international organizations. This working method required that the Institute not only reflect a relationship to the university and City of Tempe, but facilitate, practice and express the spirit of global collaboration.

photo: Mark Boisclair

LALOMA 5 2005

3707 N Marshall Way, Scottsdale, AZ 85251

will bruder + partners

A sophisticated celebration of the traditional and modern roots of its Old Town Scottsdale context, the five-unit complex includes an entry courtyard for street-level work spaces along its south side. On the north, a landscaped auto court is veiled behind a perforated metal gate and ocotillo fence.

To define views of landmark Camelback Mountain just north, the architecture folds angularly and symmetrically for the three-story units, while private cantilevered balconies project behind aluminum plate railings and detailed window walls are screened from the sun behind perforated aluminum scrims.

In scale, proportion, finely articulated details, massing and its materials, the project draws carefully from its local context and history — representing an architectural rightness for an evolving downtown Scottsdale and its aspirations for design quality and uniqueness.

photo: Bill Timmerman

24 DESERT BROOM LIBRARY 2005

29710 N Cave Creek Road, Phoenix, AZ 85331

Richard + Bauer

The expansive roof, inspired by a nurse tree protecting a saguaro cactus, defines the project identity and creates a shaded microclimate, providing filtered light, shelter and a nurturing environment for intellectual growth. The roof extends above an adjoining arroyo 60' into the desert, creating a series of transitional spaces between the desert and the building interior. Outdoor reading spaces are cooled by building relief air and are enclosed and shaded by a series of coiled metal screens that follow the arroyo. On the interior, openings that allow filtered light penetrate the roof. Each is treated with fritted or colored glass to create a changing series of colors and patterns throughout the space, culminating above the children's area. Additionally, a series of volumes contain the meeting room, information cubes, staff and computer training areas. These volumes enclose the mechanical system, completely eliminating ductwork and allowing for indirect lighting throughout. Above each of the primary service points within the building "Digital Information Cubes" display digital information which can be seen from the exterior at night.

photo: Bill Timmerman

ASU EAST CAMPUS STUDENT UNION 2005

Polytechnic Campus, 7001 E Williams Field Rd Mesa, AZ 85212

Gould Evans

Opened in 2004, the new Student Union at Arizona State University's east campus is an epicenter of student activity inspired by the co-existence of surrounding agriculture and desert landscape. Through the use of varied means to open and expand the building for any occasion, the building becomes a flexible hub of campus life. The student lounge and dining area open on three sides with large garage-style doors to outdoor patios and the main circulation area. A 400-seat banquet hall opens to an exterior lobby and formal lawn for gatherings. Expansive glass walls, shaded to prevent direct sunlight, invite students into the Union with generous views of the activity inside while allowing unrestrained views of the landscape for those within. The exterior canopy extends in rows toward pedestrian paths and desert landscaping. A corrugated metal scrim's deep-red color recalls more established university campuses as well as the Sonoran desert while it reduces direct sunlight to the interior by 70 percent and provides shaded walkways below for passing students.

photo: Mark Boisclair

LOST DOG WASH TRAILHEAD 2006

12601 N 124th Street, Phoenix, AZ 85255

Weddle Gilmore Architects

Southern gateway to the 36,400-acre preserve, the seven-acre site includes a 4,000 sf Trailhead Gateway Structure — both visitors center and starting point for hiking, biking and horseback riding trails; a Desert Amphitheater for education and entertainment; and an Equestrian Staging area.

Reflecting desert forms, colors, textures and seasons, the cantilevered center recalls the ridge to one side and the arroyo on the other. Its rough concrete walls and recycled patinaing roof and structural steel incorporate earth and flora tones. The building is even sited to reveal the sunrise of the solstices and equinoxes.

Sustainable design complements desert siting. Rooftop photovoltaics provide the trailhead's energy; rainwater is harvested and graywater collected to a 4,000-gallon underground cistern; and composting below the restrooms saves 200,000 gallons of water annually.

photo: Bill Timmerman

ASU ISTB 2 2006

850 S McAllister Avenue, Tempe, AZ 85287

Richard + Bauer

The 60,000sf engineering and research facility is conceptualized as “Living in the Machine,” a tectonic weaving of systems and programs. Primary building systems are housed and exposed in the centralized courtyard, flanked by open lab spaces to minimize penetrations and maximize flexibility. The building’s courtyard, 280 feet long, over sixty feet tall, and shaded by perforated corten steel panels that balance natural daylight and filtered shade, allows for bulk material movement to the labs. The courtyard replaces the need for internalized circulation, saving the need for additional air-conditioned space. A series of meeting enclaves, including a pair of crystalline rooms, provide gathering, conference and lounge spaces that allow casual interaction between researchers, faculty and students. The structural system was derived from a need for low cost, accelerated construction sequencing, a tight site and vibration criteria. Pre-cast concrete planks span between “super trusses.” These trusses support the second level labs as well as the interstitial mezzanines.

photo: Bill Timmerman

28 **THE DUKE** 2006

7047 E Earll Drive, Scottsdale, AZ 85251

Circle West Architects

Eight attached townhomes, three stories each, with a one-car garage.

The Duke, a 13,500sf complex of multi-family residential units, approaches downtown Scottsdale urban life with an attitude that balances community and individuality. Individuality is expressed with eight separate three-story buildings, one for each homeowner. Second-floor transparency promotes greater community within the complex.

On the interior, individual yet related spaces are compressed such that each is dependent upon its adjacent neighbor for its own character within the larger space. This allowed for a compact and efficient space plan that helped the project achieve sustainable goals and successful participation in Scottsdale's Green Building Program.

photo: Jesse Rieser

ASU ISTB III 2006

Polytechnic Campus, 7417 E Unity Ave., Mesa, AZ 85212

Jones Studio Inc.

The Interdisciplinary Science and Technology Building III (ISTB3) responds to the Sonoran Desert's extreme temperatures through strategies inspired by vernacular architecture – the use of building mass and orientation to cool and protect.

Much like the "Jardines Entremurus" of the desert regions surrounding Mexico City, the ISTB3 building maintains an introverted posture to its surrounding context. High walls and structures guard the perimeter while tranquil meditative gardens thrive within. The building's lush courtyards will enhance the building over time as leaves and vines creep through its penetrations and over its parapets, softening the guarded outer walls.

photo: Robert Reck

30 US ARID LAND AGRICULTURE RESEARCH CENTER 2006

21881 N Cardon Lane, Maricopa AZ 85238

SmithGroup

The U.S. Arid-Land Agricultural Research Center emulates and embodies the principles of a traditional desert farm, the foundation of Arizona's agricultural legacy. The 20-acre agricultural research campus is comprised of various components such as offices, laboratories, laboratory support space, greenhouses and research plots where cotton and other crops are grown and harvested for research purposes.

Each element is formally expressed as a barn, shed or equipment and is only included when it serves a necessary role in the functionality of the whole.

Economy, frugality and conservation are the pillars of survival for the 'farm' and this project. Each component is sited and constructed as efficiently as possible. Elements are only added or modified to satisfy functional shifts, if they can be afforded, and if they benefit the overall system.

photo: Bill Timmerman

PFA PRAYER PAVILION OF LIGHT 2007

13613 N Cave Creek Road, Phoenix, Arizona

debartolo architects ltd.

A sustainable glass pavilion in the desert, the 250-seat prayer chapel rests at the base of Stoney Mountain. A pinwheel of four site-cast black concrete walls supports a four-sided Vierendeel truss. Multi-slide glass walls open on three sides to courtyards.

Outside, a 50-foot-high steel cross and fire rise from a pool, and indigenous trees and concrete benches offer shade and serenity. Support spaces are located in a concrete building flanking the west side. Above 8 feet, a double-skinned wall comprises layers of translucent fritted glass and triple-insulated translucent glass. This creates a perimeter convection chimney, reducing interior temperatures and generating diffused daylighting.

At night, energy-efficient LEDs between the glass skins glow on the interior and exterior in multiple colors that rotate slowly throughout the night.

photo: Bill Timmerman

UA COLLEGE OF MEDICINE EXPANSION 2007

550 E Van Buren Street, Phoenix, AZ 85044

SmithGroup

The University of Arizona College of Medicine Expansion balances past and present as it rehabilitates the historic Phoenix Union High School campus, originally constructed in 1912.

The project replaced the three buildings' original fenestration and removed additions accumulated over their almost one hundred year history. Rather than compete with or mimic the historic structures, vertical transportation and services are encased in a simple glass cube that contrasts with the original structures' classical detailing but responds sensitively to their scale and massing. On the interior, building two received an intervention of a new mediated classroom core that provides flexible space for evolving pedagogy. Created as an affiliation between the University of Arizona and Arizona State University, the new facility totals over 85,000sf that houses administration, mediated classrooms, clinical exam rooms, surgical simulation suites and a campus conference center.

photo: Bill Timmerman

33 THE GALLERIES AT TURNEY 2007

4410 N 27th Street, Phoenix, AZ 85016

Mertz Project | Shepley Bulfinch

The eight detached residences of The Galleries at Turney nestle into a quiet gated enclave a short walk from Phoenix's bustling 24th Street and Camelback. Each two-story residence provides nearly 2,000sf of living space.

Large windows and decks look toward the downtown Phoenix skyline to the south and Camelback Mountain, the Phoenix Mountains Preserve, and the nearby Esplanade and Biltmore buildings to the north. This project is the first in the state of Arizona to be LEED-H (LEED for Homes) certified.

photo: Bill Timmerman

ASU ISTB I 2007

550 E Orange Street, Tempe, AZ 85287

Dick & Fritsche Design Group in association with Perkins + Will

In 2002, shortly after becoming president of ASU, Michael Crow announced his plan to transform the institution into a research powerhouse. The school swiftly embarked on a campaign to construct 1 million SF of research space. As part of this, the university commissioned the first of five Interdisciplinary Science and Technology Buildings.

The Interdisciplinary Science and Technology Building I provides laboratories and workspace for bioengineering, neural engineering, and molecular, tissue, and cell engineering. It also accommodates a 25-foot-tall nuclear magnetic resonance spectrometer, used to examine molecules. A layout that fostered collaboration was essential, as was flexibility, given that new discoveries could necessitate the reconfiguration of interior spaces. The laboratories have been designed generically to provide the flexibility while shared support areas, such as environmental rooms, procedure rooms, and equipment rooms are outfitted on each laboratory floor.

photo: Bill Timmerman

ARABIAN LIBRARY 2008

10215 E Mcdowell Mountain Ranch Rd., Scottsdale, AZ 85255

Richard + Bauer Architects

The desert slot canyons of northern Arizona capture the power of compressive stone walls releasing to the sky. Over millennia, threads of water sculpt the massive walls, carving out sandstone canyons. Harder stone and slow water sharply define vertical slivers, while softer stone gives way to wider crevasses.

Echoing a compelling natural sequence, an earthen stone roof thrusts from the desert floor of the library — taking with it the site's native grasses, shrub and stone texture.

Organized about a central court, the 20,000-square-foot building is entered through a slot canyon of steel and glass. Cladding of weathered steel plate reflects the indigenous terra-cotta walls of stone as they lean overhead and fall away from the entry path, opening to the sky and the library ahead.

photo: Bill Timmerman

ASU SUN DEVIL ENERGY CENTER 2008

ASU Main Campus, Tempe, AZ

Gould Evans

The 65,500sf Sun Devil Energy Center elevates a simple cogeneration structure into a 3½ story abstract object that reflects the desert's dynamic and dramatic light. Eighty-six precast concrete panels that measure 9' x 41' and vary in depth from 6 to 18 inches tile a faceted form across the face of the central cooling, heating and on-site electricity plant. As the sun moves throughout the day, their monochromatic color reflects the sun's movements across their surface with slowly moving shadows and subtle hues.

Located across the street from the new Hassayampa Academic village and south of the Biodesign Institute, the design also mitigates sound produced by the interior machinery. To achieve this, the approximately 24-ton (each) panels are cantilevered off a tube steel support system to deaden sound yet allow required fresh air to come from the under-side of the panels.

photo: Assassi Productions

PRD845 2008

777 W Roosevelt Street, Phoenix, AZ 85007

Studio Ma

PRD 845 is an urban infill project in downtown Phoenix adjacent to the Roosevelt Historic and Arts Districts. A cluster of twelve condominium homes, this enclave is organized around two private “mews” that mix cars and people in an intimate urban environment. Unit sizes range from 900 to 2,200 square feet and are designed to accommodate an active, live-work lifestyle with ground floor garage and studio spaces.

Large outdoor roof decks offer views of downtown Phoenix and the surrounding mountains. The folded roof plane creates volumetric slots through the complex giving PRD its skyline profile. The project’s building materials compliment the southwest desert environment and include a rain-screen wall made of low mass, corrugated, fiber-reinforced concrete panels on furring channels that allow accumulated heat to escape through a slot at the top of the wall.

photo: Michael Weschler

CESAR CHAVEZ LIBRARY 2008

3635 W Baseline Road, Laveen, AZ 85339

Line and Space, LLC

Located adjacent to an existing lake in a public park, the 25,000sf, Cesar Chavez Library is designed to serve 40,000 visitors per month within one of the fastest growing areas of Phoenix, the Village of Laveen. Due to the density of nearby housing, the park is the backyard for the community, and in the same sense, the library was designed to be its living room – a public place for interaction of families and friends, as well as space for individuals to enjoy reading and other quiet explorations.

Reflecting the geometry of the adjacent lake, the library's arced form is pushed into an existing earth mound, quietly integrating it into the parkscape. The earth provides thermal mass against the building, moderating building temperature, minimizing heating and cooling energy use, in addition to privacy and a barrier from noise emanating from major arterial traffic.

photo: Bill Timmerman

THE COMMONS 2008

Redemption Church, 1820 W Elliot Road, Gilbert, AZ 85233

debartolo architects ltd.

The Commons creates a new campus core and social center for Redemption Church in Gilbert, Arizona. As the first building of the new master plan, this bookstore and coffee shop has transformed the campus by becoming an inside-out pavilion that opens on all sides.

Without a traditional sense of entry, the building is a transitional space that offers shade and conditioned comfort with three solid kiosks housed under a superstructure roof that creates an additional 10,000sf of exterior usable space. Rotated 45 degrees from the existing campus, The Commons' glass doors open toward a current outdoor amphitheater and the planned location for the future main worship center and plaza filled with native desert trees that offers a shaded connection between the two facilities.

photo: Bill Timmerman

PEORIA CENTER FOR THE PERFORMING ARTS 2008

8355 W Peoria Ave., Peoria, AZ 85345

Westlake Reed Leskosky

Peoria has experienced dramatic population growth over the past 20 years, much of it suburban sprawl. The Peoria Center for the Performing Arts, along with a recently completed government complex, will serve as a catalyst for privately funded commercial and residential initiatives to help the city develop a traditional central business district. The 21,000sf community facility is conceived as a gateway pavilion in a new civic plaza. Conceptually, the building is anchored to the desert landscape by concrete masonry walls cast from indigenous aggregates.

A sculptured roof of staggered copper shingles echoes the forms of the mountain ranges to the west and provides shade for the glazed lobby beneath. The unit masonry is carried into the lobby to integrate interior and exterior spaces while a tinted concrete floor and dark stained oak complete a monochromatic palette. At night, the underside is lit to provide a soft, ambient glow for the lobby and plaza.

photo: Bill Timmerman

OPTIMA CAMELVIEW VILLAGE 2009

7171 E Rancho Vista Drive, Scottsdale, AZ 85251

David Hovey FAIA / Optima

This 700-unit mixed-use condominium development comprised of 11 terraced, bridge linked buildings responds to the harsh desert climate by creating a pedestrian-friendly shaded environment of interconnected landscaped courtyards. Through the extensive use of green-roof technology, 23-acres of landscaping were constructed on the 13-acre site, providing every living unit with landscaped exterior space.

The composition employs a site-sensitive vocabulary of layered positive and negative spaces harmoniously juxtaposed to form a rich texture of shades, shadows, colors, and transparencies. Rational geometry, bold cantilevers and sheer vertical faces serve respectfully as the backdrop to dynamic hanging gardens and sheltering courtyards.

The modular exterior wall is an interchangeable system of floor-to-ceiling glass, sandstone panels and sunshades, strategically positioned based on building orientation, site exposure, views, light and privacy.

photo: Bill Timmerman

ASU POLYTECHNIC ACADEMIC COMPLEX 2009

Polytechnic Campus, Mesa, AZ

LakelFlato Architects + RSP Architects

The Academic Complex unfolds as a series of interconnected courtyards that transition students between the harsh outdoor heat and the cooled building interior. Weathered steel screens, climbing vines, and progressive courtyards create visual and experiential layers that respond to and reflect the desert's colors, textures and environment. To reduce the amount of air-conditioned space while creating a dynamic learning environment, circulation is pulled into a three-story exterior atrium shaded by perforated metal panels and cooled by oversized fans. Increased academic community between the three primary schools, Agribusiness, Science and Technology, Education and Humanities, is encouraged through the atrium's interconnection of balconies and stairs that invite interaction and conversation. In addition, classrooms are designed to expand into the courtyards through folding glass doors. The satellite, Polytechnic campus sets the stage for a university that encourages trans-disciplinary collaboration among students within an atmosphere that is richly connected to its environment.

photo: Bill Timmerman

PAPAGO GATEWAY CENTER 2009

350 W Washington St , Tempe, AZ 85281

SmithGroup

Papago Gateway Center, a core and shell speculative office and laboratory building, establishes a new model for flexible, responsible, and sustainable development. The 267,000-square-foot, six-story building and its parking structure negotiate a balance between market-driven tenant needs and the celebration of the Sonoran Desert. This negotiation extends to the heart of the program - every floor must accommodate either corporate office or research laboratory functions.

The building's orientation and long, narrow footprint minimizes the desert's harsh solar exposure on west, south, and east sides while maximizing views. North and south facades are clad in glazing, while deceptively "heavy" stone, and east and west facades anchor, transform, and peel away at the entries. The prominent, southern façade is clad with operable perforated aluminum louvers that publicly demonstrate the building's sustainable mission to the city-at-large as they drive by on the Loop 202.

photo: Bill Timmerman

CITY OF PHOENIX MARYVALE POOL HOUSE 2009

4444 N 51st Avenue, Phoenix, AZ 85031

Holly Street Studio Architects

The City of Phoenix Maryvale Pool House draws inspiration from the existing building's and community campus's 1950s design vocabulary, adding aquatics features and exterior circulation. The design explodes the program to create several smaller buildings. This minimizes the building footprint while adding additional shade through the use of connecting canopies overhead.

Wall panels incorporate a whimsical feeling through the use of colored stucco in a variety of blues, a community tile project, fiberglass panels and bold wayfinding graphics. Photovoltaic panels are integrated into the entrance canopy to generate the facility's power and emphasize the community's commitment to sustainability.

photo: Bill Timmerman

SUNRISE MOUNTAIN LIBRARY 2009

21109 N 98th. Avenue, Peoria, AZ 85382

Richard + Bauer Architecture

The new Sunrise Mountain Library is a replacement for a joint use, public library in a high school that had been in existence for over ten years. The look and feel was institutional, public parking non-existent and the hours insufficient. The community had been very patient and because of this deserved the very best. The City of Peoria wanted a building that surpassed community needs, had a wow-factor in design and at the same time was practical and flexible.

Interior features, furnishing and color palette went beyond client expectations. The public actually comes to the library and stays, something they did not do at the joint use facility. The building emphasizes comfort, durability and is soothing to the eye which makes for the perfect stop to come and read, peruse the Internet, people watch or quietly talk. The new Sunrise Mountain Library is the perfect balance between the needs of architect, client and customer.

photo: Bill Timmerman

SAM GARCIA WESTERN AVENUE LIBRARY 2009

495 E Western Avenue, Avondale, AZ 85323

SmithGroup

The Sam Garcia Western Avenue Library is the anchor to the city's "Old Town" redevelopment plan. While respecting the existing street context and scale, the building's modern façade, clean lines and floor-to-ceiling glass provide a landmark along Avondale's "Main Street." Framed on both sides by glass, the second floor reading room and study areas provide scenic views of the Estrella Mountains to the south and the Old Town streetscape on Western Avenue to the north. Other features include ample floor space for collections, a spacious community meeting room, cozy window nooks, administrative offices, a computer area, an enclosed garden, and a small café in the lobby.

As part of the library redevelopment, Sernas Plaza, located to the east of the new building, was also redesigned. The plaza now includes a small amphitheater for outdoor concerts, gatherings, and events.

photo: Liam Frederick

AGAVE BRANCH LIBRARY 2010

23550 N 36th Avenue, Phoenix, AZ 85310

will bruder + partners

The 25,405 sf branch library unites excellence and affordability with sustainable design. Impacted by the design of its neighboring shopping center, the library draws from, and re-presents, the materials and tectonics of these retail neighbors.

Stacked bond concrete masonry units and glass enclose the simple rectangular volume of a hard-troweled concrete floor with area rugs, green sandblasted CMU walls, exposed gang-nail trusses, glu-lam beams, steel pipe columns, and sparingly used painted gyp-board interior partitions.

With its torqueing metal scrim curving along the site's eastern edge, the facade provides scale, presence and distinction. Constructed in the tradition of the old lathe houses of Phoenix's Desert Botanical Garden, which used off-the-shelf galvanized hat channels, the scrim also recalls drive-in movie theaters so popular in post-World War II suburbia.

photo: Bill Timmerman

NATURAL SCIENCE BUILDING 2010

SCC 9000 E Chaparral Road, Scottsdale, AZ 85256

Richard + Bauer Architecture

The Natural Sciences Building's simple form contrasts with the surrounding, rich landscape. An anodized aluminum rain screen alternates colors and window openings with a patterning reflective of local Native American basket weaving as it encloses masonry volumes, folds down over laboratories, and defines exterior walkways. The screen connects simple lab pavilions that organize around interconnecting courtyards, each highlighting exemplars of nature and geology throughout the Sonoran southwest.

Shaded exterior walks thread through the courtyards, minimizing dependency on interior circulation. Additionally, the courts integrate the exterior areas into daily activities as they allow natural daylight and views, coupled with clerestory lighting, to the labs within. Oriented with a long north-south exposure to control the building's solar impact, windows are minimized on the east and west facades. In addition, the rain screen provides thermal shading for the exterior lab and office blocks.

photo: Bill Timmerman

BLACK ROCK STUDIO 2010

6916 E Fifth Avenue, Scottsdale, AZ 85251

Weddle Gilmore

Black Rock Studio rethinks how urban buildings can embrace Valley canals as linear parks that weave through and connect our cities. Black Rock Studio is a downtown Scottsdale urban in-fill project dedicated to connecting 5th Avenue to the south and the Arizona Canal to the north through the use of transparent facades constructed from standard large sliding glass door assemblies.

A desert landscaped urban courtyard invites visitors into an art gallery space that faces 5th Avenue on the ground floor. The heart of Black Rock Studio, the studio/work space on the second floor loft above, is continuously transformed throughout the day as sunlight washes the sidewalls of the space through skylight slots running the length of the building to create an effect of a ceiling that soars above.

photo: Bill Timmerman

TEMPE TRANSPORTATION CENTER 2010

200 E Fifth Street, Tempe, AZ 85281

Architekton + Otak

Designed to showcase sustainable design and principles of transit-oriented development, the 40,300sf mixed-use facility houses the City Transportation Offices, Traffic Management Center, Community Room and Transit Store, as well as Arizona's first bike station, The Bicycle Cellar, which provides secure indoor parking for 114 bikes. Ground floor retail and food service offer waiting visitors a place to escape the heat, talk with a friend, or browse while waiting for their ride. The Transportation Center is organized to balance efficiency with the best possible work environment. Service functions provide a buffer on the west elevation while the adjacent open floor plate provides flexible space to accommodate future uses. In contrast to the west façade's solid, patterned masonry, a veil is suspended 10 feet from the building's east façade to shade the glazing behind. In addition, an eco-roof stabilizes the indoor temperature, reducing cooling costs. These features contributed to a building designed to reduce energy consumption by 50% and measured to reduce the building's carbon footprint by 40 tons.

photo: Payne Photographic

GATEWAY MCDOWELL SONORAN PRESERVE 2010

18333 N Thompson Peak Parkway, Scottsdale, AZ 85255

Weddle Gilmore

The Gateway celebrates passage into the 36,400 acre McDowell Sonoran Preserve while minimizing its impact on the desert. Integral to the project, the site design and construction preserved the existing arroyo network and minimized earthwork alterations to the natural habitat. The Gateway's rammed earth walls, built from local soil, recall a tradition of indigenous desert building while marking a threshold to over 45 miles of trails within the McDowell Sonoran Preserve for hiking, bicycling and equestrian enjoyment.

The roof is covered in native desert cobble to blend into the desert when observed from the eastern mountain trails. In addition, an integrated rooftop 18 KW solar system generates as much solar electricity as the Gateway consumes to realize a 'net zero' of energy consumption. Up to 60,000 gallons of rainwater is harvested through roof collection and storage in an underground cistern, providing 100% of the water needed for landscape irrigation.

photo: Bill Timmerman

HENKEL NORTH AMERICA 2010

19001 N Scottsdale Road, Scottsdale, AZ 85255

Will Bruder + Partners

The Henkel Headquarters, located at the prominent intersection of Scottsdale Road and the 101 freeway, is a corporate center designed to integrate with the Sonoran desert. The building is conceived as a crystalline cloud floating over a desert mesa. Two levels of glass curtain wall, shaded by a double ceramic frit, float above two levels clad in aluminum panels, textured plaster, and native Ashfork sandstone.

From the freeway, the 700 foot south elevation is a blurred experience against the backdrop of the McDowell Mountains. On the north, a casual walk moves along the building's folded façade. To achieve LEED Silver Certification, the building utilizes thermal and shading technologies, raised floor systems, indirect lighting and daylight in office areas.

photo: Bill Timmerman

MCC + RMC SAGUARO BUILDING 2010

7110 E McKellips Road, Mesa, AZ 85207

SmithGroup

The Saguaro Building nestles into the Mesa Community College campus, incorporating the existing architectural palette of red cmu and metal panel while simultaneously distinguishing itself as a campus icon on Mesa's outer suburban edge. A massive black-box theater wrapped with a metal screen contrasts with an undulating steel trellis that weaves around the outdoor performance and café spaces. Utilizing the same architectural language, a raised trellis shades the courtyard between the theater and the faculty offices while extending toward Red Mountain beyond. The project is also dedicated to cross-disciplinary collaboration.

The new facility organizes seemingly disparate programmatic elements – science, campus and performance functions – into a single, shared facility. Additionally, within a campus with few amenities, the two-story lobby will function similarly to a Student Union offering students of all disciplines a gathering space with a cyber café and terraniums.

photo: Bill Timmerman

GEORGE 2010

5600 N 12th Street, Phoenix, AZ 85014

Studio Ma

The coloration and textures of the neighborhood's pecan-lined streets and the dark rust color of the Arizona mesquite inspire The George's weathered and bright metal skins, adding scale and differentiation to the complex. Named after George Christianson, the architect whose house once occupied the site, the project consists of eight single-family attached units arranged in four groups of two units each.

The George provides family-oriented amenities typical of Central Phoenix including 2,200 square feet of living area, three bedrooms, two and a half baths, a family room, a ground floor living / dining area and a two car garage. Outdoor amenities include visitor parking adjacent to the main entrances with shaded entry porticoes. Second floor decks further enhance the indoor / outdoor quality of the design while providing visual and programmatic interest in the outdoor public spaces.

photo: Bill Timmerman

SAFARI DRIVE CONDOMINIUMS 2010

4747 N Scottsdale Road, Scottsdale, AZ 85251

The Miller Hull Partnership

A 350,000sf, 165-unit mixed-use condo complex, reinvents suburban living by introducing density to consumptive sprawl. The project is a self-sustaining urban neighborhood including small commercial functions—live/work lofts and ground floor retail spaces—mixed among residential units. Outdoor rooms, shaped and shaded by the enclosing buildings, organize the project. Walking from home to shopping is protected from the intense desert heat and enriched by a varied sequence of exterior spaces. Circulation is organized within a traditional urban grid, culminating at the heart of the site in a circular court shared by cars, pedestrians and outdoor dining. This deliberate blending of disparate activities fosters spontaneity and a rich public life. In this project, the response to the desert climate relies on the judicious use of thermal mass, deep overhangs, a high-performance thermal envelope, and naturally weathering, locally manufactured materials combined with native, drought-tolerant landscaping. A “cool tower” passively cools a public courtyard with a simple, wind-driven technology borrowed from middle-eastern desert vernacular.

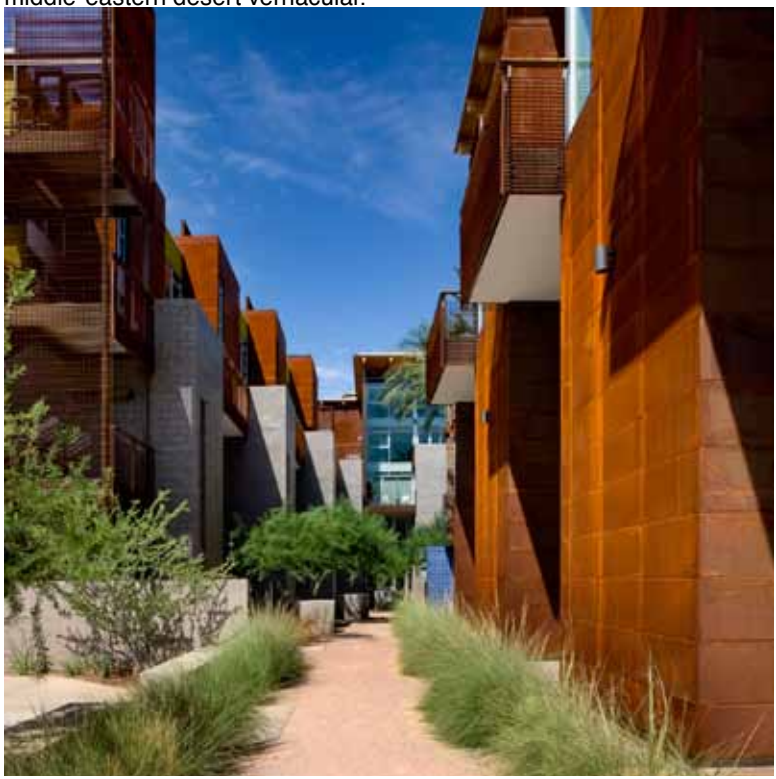

photo: Raul J. Garcia

MEZZO TOWNHOMES 2010

1145 E Whitton Avenue, Phoenix, AZ 85014

Will Bruder + Partners

Mezzo draws from its neighbors' character while carving out its own unique place for comfortable urban desert living. A native desert garden invites visitors into the Mezzo Townhomes where site benches and weathered welded wire mesh fences enhance the natural setting. Sandblasted, pale green concrete masonry site walls delineate shared and private areas. Deeply sandblasted, pale green concrete masonry walls with weeping mortar joints lift the project's first level onto an architectural plinth, creating a datum that corresponds with the homes' courtyard entrances.

Above, pale green eight-inch masonry defines the second and third levels. In contrast, clear and mirrored glazing with sculptural metal scrims animate the façade. Perforated galvanized metal on weathered steel frames adds additional layers to the east and west facades while bay windows articulate and enhance the homes' kitchens overlooking the auto courtyard.

photo: Bill Timmerman

PVCC LIFE SCIENCES 2010

18401 N 32nd Street, Phoenix, AZ 85032

Marlene Imirzian & Associates Architects

Collaborative, informal learning inspires the 35,000 sf Paradise Valley Community College Life Sciences Building. An east-facing portico extends toward a future campus green while protecting collaboration pods and a through-campus sidewalk below. By offering a dynamic space to gather in the shade, the portico serves as a magnet that invites and attracts all students and the community to read, study, eat lunch, or see what is happening with the Anatomy, Physiology and Biology programs within.

In addition, the building integrates sustainable design throughout. All major glazing is shaded. A butterfly roof collects and directs rainwater to two oversized downspouts that celebrate the desert's infrequent but dramatic storms. Referencing the building's science programs, the downspouts visually illustrate and measure the rain volume that is collected in underground cisterns and used to irrigate a learning landscape along the site's south side.

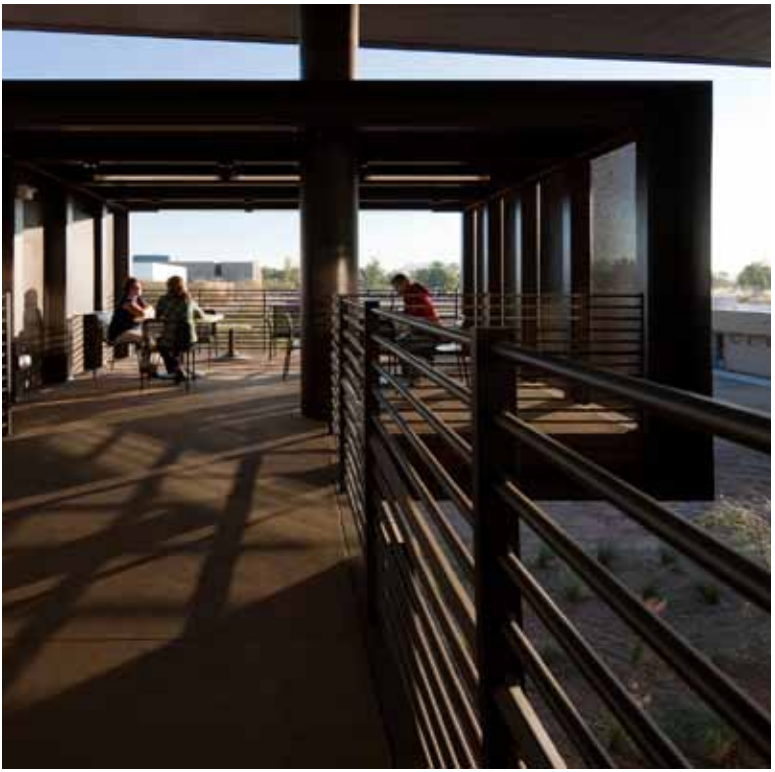

photo: Bill Timmerman

FREEPORT-MCMORAN CENTER 2010

333 N Central Avenue, Phoenix, AZ 85004

SmithGroup

The Freeport-McMoRan Center seeks to capitalize and build upon Downtown Phoenix's rebirth while establishing itself as a game-changer in the commercial office market. The 26-story office tower, designed to attract a major national or international prime tenant, inverts the typical response to the intense desert sun.

Rather than adopt the same strategy as many downtown towers that shield the interior with opaque materials, this building incorporates high-efficiency glass technology and a high-performance curtain-wall system along with shading to provide sun control.

Programmatically unique to the Phoenix market, The Freeport-McMoRan Center incorporates a large office plate typically found in suburban office buildings and places it on top of a stacked parking structure.

photo: Bill Timmerman

CGCC IRONWOOD HALL 2010

2626 E Pecos Road Chandler, AZ 85225

Architekton

On the former farmland at the outer edge of the city between suburbia and the Sonoran Desert, consists primarily of one to three-story buildings with shaded walkways, covered niches, and casual courtyards. The campus exhibits a wide range of color and texture, a quality that is celebrated with the multi-chromatic materials incorporated into Ironwood Hall. An important goal to the project was reinforcing the campus environment. Sited along the northern edge of the college's core, Ironwood Hall engages the primary north-south mall to create a northern portal. Additionally, the building is organized into three parallel east-west bars that define three interconnected exterior spaces: an edge to the Student Center Event Space, a plaza to the east, and a shaded internal courtyard that expands the building's usable space without providing conditioned air. Throughout a series of courtyards, porches, and covered walkways, students and faculty from the unique mix of curriculums - science, engineering, ceramics and sculpture, general education, and faculty offices - can gather, interact and engage.

photo: Bill Timmerman

CIVIC SPACE SHADE CANOPIES 2010

424 N Central Avenue, Phoenix, AZ 85004

Architekton

The Civic Space acts as Phoenix's "central park," a community gathering place and hub for Arizona State University's downtown campus. shade canopies offer relief from the over 330 days of sun per year while collecting energy from above through integrated photovolvaics, expressed as thin undulating planes. Critical to the slender expression was achieving a compact section. a custom unistrut profile allowed a minimal knife edge to cantilever past the steel beams and hide the depth of the primary structure. vertical cantilevers absorb lateral loads and allow minimized columns. To convey fluidity, a tight pattern of electrical conduit was suspended below the superstructure, creating a filigreed shade. Parallel girders set at opposing angles resulted in an incremental rotation of the structural plane, creating an overall hyperbolic shape out of linear components. Above the canopies, cross bracing supports the photovoltaic array and allows the panels to gradually roll with the warp of the structure as they gather power for the park's lighting, offer shade, and illustrate the city's commitment to sustainability.

photo: Matt Winquist

HARMON BRANCH LIBRARY 2010

411 W Yavapai Street, Phoenix, AZ 85003

Richard + Bauer Architecture

Celebrating the community's broad diversity, the Harmon Library is conceived as a kaleidoscope set in the heart of a downtown Phoenix urban park. The diverse neighborhood has integrated the library as a key element within the community – a place to connect and an important resource for after school children and working families. Discrete age dependent areas flank a primary linear space containing common shared functions. Multi-purpose spaces allow different age groups to be both independent but maintain a shared experience. Framed with a large expanse of saw-tooth glass, the upper ceiling volume is sheathed in perforated aluminum panels, dispersed with colored linear skylights and slot windows that refract light throughout the day. Establishing the core reading area, the 25' high central volume and graphic panels suspend from structural trusses, composing a play of texture and color across floor, walls, and furniture. An open floor plate seamlessly transfers patrons throughout the library and augments views to exterior garden courts and the adjacent community park.

photo: Mark Boisclair

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