ARCHITECTURE
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DESIGN

37  Practice Alternatives
Architects explore professional options beyond the roles of traditional practice.

38  City Catalyst
Michael A. Dobbins, Director of Urban Planning, City of Birmingham, Alabama
BY LYNN NESMITH

42  State Asset
Neal P. Stowe, Utah State Architect
BY ROBERT A. IVY, JR.

44  Guardian of Justice
BY LYNN NESMITH

48  Public Servant
Arthur Rosenblatt, Vice President, Grand Central Partnership
BY MILDRED F. SCHMERTZ

50  Disney Developer
Wing Chao, Senior Vice President, Disney Development Corporation
BY MICHAEL J. CROSbie

56  Urban Advocate
Douglas Gardner, Project Architect, Maguire Thomas Partners
BY MICHAEL J. CROSbie

58  Backwoods Craft
Bass Pro Shops Corporate Architects
BY EDWARD GUNTS

62  Campus Steward
Frank Zwart, Campus Architect, University of California, Santa Cruz
BY HEIDI LANDECKER

66  College Unifier
M. Boone Hellmann, Campus Architect, University of California, San Diego
BY HEIDI LANDECKER

70  Master Planner
Charles W. Oakley, Campus Architect, University of California, Los Angeles
BY HEIDI LANDECKER

COVER:
Illustration by Guy Billout

TECHNOLOGY & PRACTICE

80  Fragmented Dreams, Flexible Practices
Due to new economies and technologies, architectural practice promises significant changes throughout the coming decade.
BY DANA CUFF

87  New Directions in Project Delivery
Practitioners and educators discuss various methods of designing and constructing buildings in the 1990s.
BY NANCY B. SOLONON

95  Carving a Niche for the '90s
To help survive the recession, architects are honing their talents to specific skills and turning to specialty markets.
BY VERNON MAYS AND MARC S. HARRMAN

103  Total Quality Management
Borrowing organizational strategies from other industries, architects are learning to speak the language of their clients.
BY NANCY B. SOLONON

109  CADD Consequences
How computers have changed the practice of architecture—for better or worse—over the past decade.
BY B.J. NOVIKSKI

DEPARTMENTS

15  Editor's Page
18  Letters & Events
23  News
32  Awards
79  Info
115  Products
120  Project Credits
128  Neat File

NEXT MONTH:
New design talent
Lighting portfolio
Starting your own firm

ARCHITECTURE / MAY 1992  11
Silent Architects

In this issue, we examine architects whose quiet presence in the profession has gone largely unnoticed—practitioners who work within corporations, institutions, and government. While architects have long worked outside the mainstream of private firms, those who do so have been grudgingly accepted, more as client representatives than as lobbyists for good design. But as more private firms seek government and university commissions during the recession, the stature of such “silent” architects is growing. It is these professionals who are increasingly influencing what gets built—and how—in the 1990s.

To broaden professional and public awareness of alternatives to traditional practice, last year the AIA formed the Careers Task Force, an advisory group of university, state, and other architects familiar with jobs that break the conventional architecture-firm mold. The group’s first meeting, held last November, not only addressed the need to educate would-be and practicing architects about conventional careers in design, but also about jobs outside the profession that involve no designing whatsoever. The task force members are now developing educational programs and ways of publicizing career alternatives for architects, and their suggestions will be taken up by the AIA Board of Directors this December. A seminar planned for the AIA’s national convention in June, “The New Profession: Careers in Architecture,” will promote jobs “beyond traditional limits.”

The AIA admits that its initiative has been spurred by the recession-induced need to keep architects working. But a more comprehensive view of architects’ responsibilities is long overdue. Not only are more architects working outside the broadly defined practice of architecture (about 8 percent of AIA members), but those in private practice are increasingly involved in activities beyond design. Drawing attention to these alternative ways of practicing underscores the message that architecture is more than the creation of isolated buildings by a lone designer; it requires a collaborative process harnessing many talents outside the drafting room.

Those architects working outside private firms are just as valuable to this process as their conventional counterparts. Their increasing numbers will result in better clients and greater opportunities for all architects. As practice continues to change over the decade, these “silent” architects will have a stronger voice in determining the quality of our environment.

—Deborah K. Dietsch
Practice Alternatives

This month, we depart from our usual focus on buildings to feature architects who have taken the road less travelled, choosing careers in government, civic organizations, corporations, and universities rather than working for private firms. Contrary to the common stereotype, these men and women are not working behind the scenes, but hold prominent positions that greatly influence the way buildings are programmed, designed, and constructed. They are not only helping their organizations to be better clients, but are educating the public about the value of architecture.

For architects in private practice, the typical path from design to construction is becoming more circuitous, requiring firms to blaze new trails. An essay by Dana Cuff, author of Architecture: The Story of Practice, discusses the reasons for this growing complexity, and a roundtable on project delivery reveals how architects and educators are responding to new ways of providing services. For most firms, the recession is an inescapable catalyst for change. Some firms are successfully coping with the sluggish economy by concentrating on specialized building types and services, as discussed in an article on niche markets. And a few enterprising architects are testing a new management philosophy to better serve their clients and ensure their own survival.

Throughout this issue, we encourage architects to venture out of design's ivory tower and take advantage of the growing opportunities that lie beyond the limits of traditional practice.
BIRMINGHAM, ALABAMA, IS NOT A TYPICAL SOUTHERN CITY. Founded six years after the Civil War, the city’s economy was originally based on heavy manufacturing, not agriculture, and its urban development responded to the Industrial Revolution rather than antebellum traditions. Likewise, the most influential architect in the city’s government, Michael A. Dobbins, FAIA, is not a typical Southern bureaucrat. A native of Denver, Colorado, Dobbins graduated from Phillips Exeter Academy and Yale University. He worked for an architect in Sweden for a year before earning a master’s degree in 1965 from the Yale School of Architecture, chaired at the time by Paul Rudolph. Despite his Ivy League education, Dobbins is the antithesis of the elitist architect. “I have always been interested in aspects of design that affect ordinary people,” he contends. “My opinions got me into a lot of trouble at Yale in the 1960s.”

Dobbins’s views might have been countercultural, but he managed to land a job in Rudolph’s office after graduation. In 1967, Dobbins first tasted public service under Mayor John V. Lindsay in New York City’s formidable Urban Design Group of the city’s planning department (his colleagues included Jaquelin Robertson and Jonathan Barnett). During his five-year stint in New York, Dobbins was immersed in the zoning, financing, and politics of construction—“all the things you don’t learn in architecture school.” Rather than becoming averse to these processes, Dobbins recalls, “I was intrigued when I realized how much government regulations shape architecture.” After three years in New Orleans as a transportation planner and instructor at Tulane University, Dobbins joined Birmingham’s Department of Urban Planning in 1979. He was named director of the department in 1986.

Birmingham was ripe for a public architecture advocate like Dobbins. In 1976, the local AIA chapter sponsored a Regional Urban Design Assistance Team, a charrette that targeted three working-class neighborhoods in the city for redevelopment. In addition, Operation New Birmingham, a nonprofit organization founded in the late 1960s to encourage development, was becoming a more influential proponent of urban design, and a strong grass-roots commitment to preservation had emerged.

To his credit, Dobbins didn’t come to town with grand notions, but with the patience to work within the system as he gradually reshaped Birmingham’s urban fabric. During his 13 years at city hall, he has established a design review process that encourages citizen participation. In addition, Birmingham’s municipal government now formally recognizes 100 neighborhoods. Each district receives capital funding and has an elected board of representatives with a voice in city planning commission and city council deliberations. A citywide design review committee appointed by the city council (four of its 11 members must be architects or landscape architects) has the authority to approve permits for new construction, demolition, and renovation. “The policymakers had to be convinced that design should be a factor in their deliberations,” Dobbins recalls, “while the designers had to be convinced of the value of the deliberative processes that characterize civic decision-making.”

Dobbins’s technique has been to target...
districts of the city for revitalization, rather than to sponsor individual buildings; he is as interested in the spaces between buildings as the buildings themselves. In the mid-1980s, Dobbins directed the renovation of Linn Park, the city’s first public park in the heart of Birmingham, and revitalized a six-block stretch of the downtown’s principal artery, 20th Street. In conjunction with a major expansion by Emery Kirkwood & Associates to the Birmingham/Jefferson County Civic Center (a 1968 design by Geddes Brecher Qualls Cunningham), Dobbins rerouted and upgraded a street to create new vehicular access and renovated the pedestrian approach from Linn Park. But he has not forgotten less prosperous areas; virtually every neighborhood has received some public streetscape investment.

Projects around the city in various stages of design and construction reflect a growing appreciation of quality architecture on the part of the municipal government and the private sector. A $17 million expansion of the Birmingham Museum of Art by Edward Larrabee Barnes, in association with KPS Group, is scheduled for completion next year and will be the linchpin in the city’s cultural arts district along the western edge of Linn Park. A new campus for the Alabama School of Fine Arts by Renneker, Tichansky & Associates, now starting construction, will anchor the western boundary of the cultural district.

As the city’s demographics and political leadership have shifted from a white to a black majority, Dobbins has stressed an inclusive approach to urban planning and an awareness of social concerns. Accordingly, the Birmingham Civil Rights Institute will open later this year as the centerpiece of the city’s Civil Rights District, which encompasses sites of civil rights demonstrations in the 1960s. Although the Civil Rights Institute is a quasi-public foundation, Dobbins worked closely with the Institute’s board throughout the planning of the complex, which was designed by R.L. Brown & Associates with design consultant J. Max Bond, Jr., of Davis, Brody & Associates.

“IT is the mind of the architect that is best suited to bring . . . a city into a symphonic character,” Louis Kahn asserted in a lecture at the Pratt Institute in 1973. As Dobbins orchestrates Birmingham’s commitment to enriching its urban fabric, he demonstrates Kahn’s belief in civic-minded design. “We must emphasize the common ground that holds a city together,” Dobbins maintains. “It must reflect the public will, not the expression of an individual.” —LYNN NESMITH

Kirklin Clinic
Pei Cobb Freed & Partners with TRO Architects

WHEN MAJOR NEW PROJECTS ARE PROPOSED in Birmingham, Michael A. Dobbins insists on “snatching good urban design from the jaws of good architecture.” Pei Cobb Freed & Partners’s new Kirklin Clinic is a prime example of the city architect’s emphasis on the urban ensemble and the role of the community design-review process. The latest component in the University of Alabama at Birmingham’s (UAB) expanding medical complex, the $125 million clinic is located on the city’s principal north-south spine, approximately halfway between downtown and the revitalized Five Points neighborhood. Kirklin Clinic is UAB’s first facility east of 20th Street, and a major concern was the five-story building’s relationship to the street, according to Dobbins. Although the clinic resisted placing street-level retail along 20th Street, the architects articulated the ground floor with a series of recessed windows and landscaped plazas. They also included 18,000 square feet of retail along the ground level of the facility’s adjacent 1,450-car parking deck. The first phase of the clinic, scheduled to open this month, is clad in a gridded Italian white granite. The five-story, 430,000-square-foot facility will consolidate the medical center’s outpatient services, housing approximately 660 staff physicians, surgeons, and dentists. The second phase calls for another 450,000-square-foot structure to the south (right in preliminary model, top photo).
State Asset

IN 1986, REPUBLICAN GOVERNOR NORMAN H. BANGERTER OF Utah crossed party lines to appoint a Democrat, Neal Stowe, AIA, as state architect. Stowe, a committed public servant, has made the governor’s defection worthwhile. Because he believes that careful planning produces “smarter” buildings, Stowe demands that each state-sponsored project be fully programmed, including a detailed cost estimate, before funds are requested from the state legislature. Since the 48-year-old Stowe took office, no additional funds have been requested for such projects, and Utah, an economically thriving state, has saved dramatic amounts on design and construction.

Fiscal management isn’t the only skill that serves Stowe in the public sector. As an architecture student at the University of Utah during the early 1970s, Stowe was active in Salt Lake City’s community design center, called Assist, a local planning consortium devoted to encouraging partnerships with business to address the city’s problems. After graduating in 1971, Stowe spent 15 years working for two architectural firms in the state capital. Named a partner in the firm of Richardson Associates in 1983, he also presided over Assist’s board from 1980 to 1984. Three years later, he led the Utah Society of the AIA as president.

As director of Utah’s Division of Facilities Construction and Management, Stowe oversees an inventory of some 4,000 state buildings that constitute a range of building types: corrections facilities, higher education campuses, applied technology campuses, courthouses, and state agency offices in Salt Lake City. The capitol, a turn-of-the-century granite landmark, recently underwent an office renovation under Stowe’s assurance to the legislature that it would meet its 10-month construction schedule and $4 million budget.

Below the state capitol spreads Brigham Young’s urban handiwork, Salt Lake City, currently being reshaped under Stowe’s guidance. An art museum, to be located in a revitalized Union Pacific depot, and a new consolidated courts complex are under way. The $62 million courts project involves a partnership with the city and has already spawned a local alliance with businessmen, similar to Stowe’s earlier work with Assist.

To encourage more Utah firms to interview for state work, Stowe added a local twist to the selection process. He invites one architectural firm per week to present its credentials at a brown-bag lunch with his staff, free from the pressures of a specific job interview. As a result of Stowe’s aggressive open-door policy, 33 percent of state construction and planning projects are awarded to firms that have never worked with state government.

While Stowe never aspired to be a bureaucrat, he clearly relishes his job, attacking 18-hour workdays and rough legislative questioning with energetic confidence. Aware that the majority of the state’s largest projects involve public funding, he feels both responsibility and opportunity. “Working with agencies and users,” Stowe explains, “architects create purpose and direction for the future of Utah.”

—ROBERT A. IVY, JR.

Stowe oversees buildings such as a dance center (below left) and biological research facility (below center) at the University of Utah, and the health sciences building (below) at Weber State University. The Dixie Center complex (facing page), at Dixie College in St. George, also serves as the city’s convention and community center.
Crowding is a fact of life in American prisons. Indeed, a recent U.S. Supreme Court ruling makes it easier for state and local officials to challenge court settlements that require them to improve prison conditions. Yet despite the high court’s ruling—and despite a hardening of public attitudes toward criminals and stricter sentencing guidelines for convicted offenders—the Justice Department’s Federal Bureau of Prisons prides itself on maintaining humane environments for both inmates and staff. Likewise, the bureau is moving as swiftly as possible to keep up with demand as the federal prison population burgeons.

Architect Scott Higgins, who heads the Bureau of Prisons’ Office of Design and Construction, has spent his entire professional life working to meet these goals. After graduating from the University of Oklahoma with a bachelor of architecture degree in 1967, Higgins joined the bureau; seven years later, he was named administrator of its regional facility management office in Dallas. In 1983, he returned to Washington, D.C., to head the bureau’s design division.

Higgins’s tenure has paralleled sweeping philosophical changes in prison design and an increase in the federal prison population—from 20,000 in 1967 to more than 66,000 in 1992. The year that Higgins joined the bureau, President Lyndon B. Johnson appointed a commission to study prison reform, resulting in a Department of Justice pilot program to upgrade correctional facilities. A revolutionary new management approach was introduced: direct supervision, an open prison environment in which inmates and staff freely intermingle. This approach to incarceration required new architecture, which resulted in a wave of building for the federal prison system. The number of new facilities has grown from 28 to 68 during Higgins’s nine years with the office of design and construction.

“When the bureau embarked on a major building program 25 years ago,” recalls Higgins, “there was an understanding that quality design was an important component.” Three prototypical urban prisons, which opened between 1974 and 1975, reflected the bureau’s new architectural standards: a facility in Chicago designed by Harry Weese & Associates; another in New York City by Gruzen & Partners; and a third in San Diego by Tucker Sadler & Bennett. “The Chicago facility is a milestone in the federal prison system,” Higgins asserts. “Weese’s triangular plan for the housing unit remains the model for all prison housing.”

Despite the success of these facilities, increasing crime and mandatory federal sentencing laws have led to an explosion in the prison population over the past decade. As a result, the bureau has had to build more prisons than ever before in its history; in 1990, for example, the federal prison population grew by 10.7 percent. Currently, $2 billion worth of federal prison projects are being designed and constructed, and Congress has appropriated another $269 million for 1992.

This boom in prison population has led Higgins and his staff to develop a campus model for new medium- and minimum-security facilities. Scheduled to open in 1993, the bureau’s Cumberland complex, designed by RTKL, incorporates a campus plan comprising a medium-security facility (below) and an adjacent minimum-security prison camp.
Federal Correctional Complex
Florence, Colorado
LKA Partners/Lescher and Mahoney/
DLR Group, Architects

THE FLORENCE COMPLEX REPRESENTS THE first time the U.S. Federal Bureau of Prisons has located four facilities of varying degrees of security on one site (master plan, below). Scheduled to open in phases later this year and next year, the 600-acre complex houses a minimum-security camp (top left), a medium-security institution (second from top), a high-security penitentiary (second from bottom), and a maximum-security penitentiary (bottom). Although Lescher and Mahoney had designed a medium-security facility in Phoenix in the early 1980s, the firm worked closely with bureau architects in programming and designing the bureau's first facility constructed specifically to serve as a maximum-security facility for confining the federal system's most dangerous inmates. Located in a sparsely populated, environmentally sensitive area 40 miles southwest of Colorado Springs, the Florence complex reflects Higgins's commitment to site-specific solutions that also function as models for future facilities. The architects, working in joint venture, utilized complementary materials and developed an architectural vocabulary to create a unified compound that differentiates the four levels of security through density and massing.
rity federal prisons. This campus plan, which originated in Otisville, New York, with a 1980 design by Davis, Brody & Associates, clusters triangular housing modules and communal structures around a courtyard. "Otisville set the standard," explains Higgins, "but the bureau's medium-security facilities have constantly evolved during the last decade." The campus model has continued to develop under the federal architect, with 14 new facilities opening within the past 10 years. The next important prison model was the 1989 Sheridan, Oregon, facility by Zimmer Gunsul Frasca Partnership, which in turn served as a forerunner to the Three Rivers, Texas, facility (facing page). Both prisons encompass a medium-security compound and an adjacent minimum-security prison camp.

Higgins is very sensitive to the fact that his office oversees an enormous public expenditure. The less institutional look of the recently completed medium-security prisons can be credited to the bureau's search for the most cost-effective structures. "Our new facilities are as much a reaction to the expense of utilizing super-security prison hardware as trying to create a 'normal' atmosphere for the inmate," explains Higgins. His commitment to fiscal responsibility encourages architects to incorporate local building materials and construction techniques.

Although a few large and specialized firms design many new federal correctional facilities, the bureau is willing to consider firms that are not "prison architects," using the federal government's standard qualifications-based selection process. Architecture firms submit an SF-255 qualifications statement; the final decision is made from a short list of four to six firms. Once selected, the design firm works with one of the bureau's 13 staff architects, who serve under Higgins and manage a project from programming through construction. Firms currently working on federal prisons include the Kling-Lindquist Partnership, DMJM, Dovorski Associates, Odell Associates, and Middleton McMillan Architects. Keyes Condon Florance Eichbaum Escoff King was recently selected to design a 1,200-bed facility in Washington, D.C.

As head of the bureau's Office of Design and Construction, Higgins has directed the largest federal prison-building program in the country's history. Although the 1993 appropriation for new construction is only $118 million—less than 10 percent of Higgins's budget three years before—prison construction promises to remain strong throughout the decade.

—LYNN NESMITH
Three Rivers's medium-security facility wraps around a central courtyard (facing page, top) anchored by an administrative wing to the east (facing page, center), gymnasium to the north, and chapel (facing page, bottom left). The architects exposed the structure's roof gables within the dining room (facing page, bottom right). The satellite camp (below) also links administrative buildings with arcades and features a sunny cafeteria (bottom right). The camp's gym is crowned with a metal roof and exposed trusses (bottom left).

Federal Correctional Center
Three Rivers, Texas
Hellmuth, Obata & Kassabaum, Architects

Like many prison projects designed under the auspices of the Federal Bureau of Prisons, the Three Rivers complex comprises a medium-security facility and a satellite camp. The site of the new prison is a 302-acre tract approximately 70 miles south of San Antonio near the Choke Canyon Reservoir. Unlike many government agencies that strive for uniformity, the U.S. Bureau of Prisons strongly encourages architects to incorporate regional materials and building techniques. In recalling his experiences at the Three Rivers facility, HOK project architect Gordon Gilmore credited the bureau with "appreciating good design and being open to our ideas." Accordingly, HOK incorporated split-faced concrete masonry blocks and stucco with standing-seam metal roofs to recall the scale and massing of South Texas vernacular architecture. Further responding to the bureau's goal of blending with the rural context, HOK developed a master plan with approximately 30 percent of the site left as a landscaped buffer of indigenous vegetation.

The main component of the complex (facing page) is a medium-security facility with buildings arranged in a campuslike setting—albeit within a double-perimeter security fence. The 30 acres within the fence contain the workings of a small city, including administrative offices, clinic, dining facilities, commissary, laundry and clothing exchange, library, classrooms, nondenominational chapel, gymnasium, and recreational facilities. The architects organized administrative and inmate services buildings around a 450-foot-long central courtyard and connected the structures with covered arcades. The prison's 958 inmates are housed in four two-story buildings, each divided into two triangular wings with two floors of cells surrounding a multipurpose room.

For the adjacent minimum-security prison camp, the architects kept the buildings' profiles deliberately low and fragmented and repeated the rooflines, window proportions, color, and materials of the main prison facility to the west. Administrative/inmate services and dormitories are also grouped around a central landscaped courtyard. To house the camp's 289 inmates, the architects designed a pair of one-story residential structures that define the southern edge of the camp's facility. Each building contains four open dormitory wings.
Public Servant

More than 30 years ago, following the dream of most young architects, Arthur Rosenblatt quit his drafting job and opened an office in New York City. It was an audacious move that Rosenblatt, married with two young children, would soon regret: lacking enough commissions, he was forced to close his practice within the year. The architect was soon to improve his lot, however, by inventing an alternative career that has made him a force behind New York's most powerful cultural institutions.

Self-reinventors can always do with some help, and Rosenblatt's came in the form of his next boss, the late architect Irwin S. Chanin, who allowed Rosenblatt to participate in the civic life of New York during working hours. The young architect joined a community planning board and helped neighborhood groups to fight for better park design and maintenance. As a result of these volunteer activities, in 1966, the newly appointed parks commissioner, Thomas P.F. Hoving, named Rosenblatt first deputy commissioner of New York City's Department of Parks, Recreation and Cultural Affairs—a job that was to lead to a lifetime of public service.

In his two years as deputy commissioner, Rosenblatt initiated the first major construction program for New York's parks and cultural facilities since the Robert Moses era. In 1968, once again summoned by Hoving, now director of the Metropolitan Museum of Art, Rosenblatt became the Met's vice president for architecture and planning, a position he held for 18 years. In that capacity, he was responsible for the museum's more than $1 billion renovation and expansion, designed by Kevin Roche John Dinkeloo & Associates. (During the last four years, he also served as director of capital projects for the New York Public Library restoration by Davis, Brody & Associates and restoration architect Giorgio Cavagli.)

In 1986, Rosenblatt became the director of the U.S. Holocaust Memorial Museum in Washington, D.C. Responsible for program development, as well as securing approvals from the federal Fine Arts Commission, National Capital Planning Commission, and D.C. Historic Preservation Review Board, he was instrumental in the selection of Pei Cobb Freed & Partners to design the building.

Today, Arthur Rosenblatt, FAIA, is back in New York serving as vice president of the Grand Central Partnership (GCP), a private, nonprofit group consisting of property owners, commercial tenants, and city officials dedicated to the restoration and rebuilding of the 53-block area surrounding Grand Central Terminal. This high-density district includes nearly 53 million square feet of commercial space within an irregular boundary that stretches from 38th to 48th streets between Second and Fifth avenues. Dilapidated, seedy, and a magnet for the homeless, it has long been outclassed by adjoining business districts; capital improvements, funded by property owners through a self-imposed tax assessment, are expected to cost $28 million. Architect of the GCP is Benjamin Thompson & Associates, which has drawn up a five-year master plan. BTA's proposals include the recently completed lighting of the terminal, the restoration of the 1919 viaduct, storefront and street design criteria, and a new system of lighting, signage, and traffic signals (facing page).

Meanwhile, Rosenblatt is currently steering the project through New York City's Art Commission, Landmarks Preservation Commission, Department of Consumer Affairs, Department of Transportation, Department of Parks and Recreation, Fire Department, and Community Planning Boards 5 and 6, a task that will test his well-earned political skills. "Too many architects," he asserts, "present their projects in a manner that reveals total innocence of the political realities. They need to function as effectively in the public sector as they do in the private."

—Mildred F. Schmertz

Rosenblatt supervised improvement of Grand Central Terminal, directed development of the U.S. Holocaust Memorial Museum (below left), and served as vice president for the Metropolitan Museum of Art (below).
In 1953, as he contemplated the design of a new kind of amusement park in Anaheim, California, Walt Disney consulted Los Angeles architect Welton Becket. Legend has it that after Becket toured Disney’s animation and motion picture studios, he told the famous film producer to forget about commissioning an architect. With its set designers, art directors, and animators, the company had all the talent Disney needed; Disney then formed the original “Imagineers,” a group of about 20 people culled from the studio, to design Disneyland. The company has relied on in-house design talent ever since to create its theme parks around the world, and today the Imagineers number 3,000, of which 70 are architects.

But Disney’s most celebrated design is now cultivated by the Disney Development Company, the entertainment conglomerate’s real estate arm. It was established in 1984 with the arrival of Walt Disney Company Chairman and CEO Michael Eisner, a self-described architecture buff. “In a company such as ours, architecture and design are part of our very fabric, interwoven into the environments we create,” explains Eisner. “Architects are smart, well-educated, and recognize good ideas. I’ll trade a good investment banker for an architect any day.”

The chairman’s appreciation of architects is reflected in the Disney Development Company, which is responsible for everything Disney builds except the theme parks, which are handled by the Imagineers. The development company master-plans the company’s vast real estate holdings in California, Florida, Japan, and France; it determines land use, interviews outside architects for new building commissions, and invites architects to compete for the design of guest facilities. Disney Development’s in-house architects manage projects throughout design and construction.

The senior vice president for master planning, architecture, and design at Disney Development Company, Wing Chao, FAIA, is such an architect. Born in Chungking, China, Chao holds degrees in architecture and urban planning from the University of California, Berkeley and Harvard University. He joined Disney in 1972 after working for the architecture firms of Charles Luckman and John Carl Warnecke in Los Angeles. After two years at Disney World in Orlando, Chao spent a decade working as an Imagineer in Oakdale, California. In 1984, he moved to Disney Development and began working on projects such as Michael Graves’s Swan and Dolphin hotels and Robert A.M. Stern’s Casting Center and the Yacht and Beach Club Resorts (Architecture, June 1991, pages 90-93). More recently, Chao directed Graves’s Team Disney Building in Burbank, California (Architecture, June 1991, pages 80-89); Arata Isozaki’s Team Disney Building in Orlando (Architecture, April 1991, page 30); and a conglomeries of hotels, restaurants, and other attractions for the recently opened 5,000-acre Euro Disneyland near Paris, designed by such architects as Stern, Graves, Antoine Predock, and Frank Gehry. Today, Chao divides his time between Orlando and Paris, and is about to start new projects in Anaheim, where a second theme park is being designed for Disneyland. He is also coordinating efforts to expand Disney World’s hospitality facilities in Orlando with several new hotels (right) designed by Antoine Predock and...
THE DISNEY VACATION CLUB AT WALT DISNEY World in Orlando, Florida, is a new venture for the company in vacation time-sharing. Although club members don't actually own a unit, the design is geared to make the Vacation Club buildings variegated in appearance to suggest individual houses (top left). Of the 478 units planned for construction, 197 have been completed, along with a hospitality house (above), which contains a restaurant, snack bar, convenience store, pool, sauna, and a big, comfortable living room that can be used by club members. The residential units were designed by Bassenian/Lagoni of Santa Ana Heights, California, while Richardson Nagy Martin of Newport Beach, California, designed the hospitality house.

The club's theme, which was determined by Wing Chao, Michael Eisner, and Peter Rummell prior to hiring an outside architect for design, is the colorful architecture of Florida's Key West. The design architects for the residential units consulted with Chao and studied Key West architecture before starting design work. The two- and three-story buildings (left), which are sited diagonally to one another to create vistas of the nearby golf course and other recreational areas, contain a variety of studios and one-, two-, and three-bedroom units that range in size from 410 square feet to 2,360 square feet. Different types of decorative exterior siding, pastel colors, and metal roofs with varying slopes and heights suggest separate houses. —M.J.C.
Robert A.M. Stern, among other architects. Rather than rely on in-house talent for its resorts and vacation centers, Disney seeks outside architects for their freshness and creativity. "I could hire 50 creative people to be in-house architects and do these projects," says Chao, "but it would be a Disney product. When Stern or Rossi designs buildings for us, we're making the public aware of architecture."

Typically, a project will start with a brainstorming session among Chao, Eisner, and Disney Development President Peter Rummell to determine the project's theme. For the recently completed Disney Vacation Club in Orlando, for example, the theme evolved from discussions about popular vacation spots. "We get a lot of our ideas from the New York Times's Travel section," explains Chao. When they decided to model the club on the Victorian and Caribbean styles of Key West, Chao and Rummell spent a day walking around the Florida island, noting the different pastel shades, wood siding, ornament, and metal roofs of its buildings.

After determining a project's theme, Chao may invite three or four architects to submit design schemes. Invited architects are selected based on past work for Disney, or through magazines, books, exhibits, or word of mouth. More ideas are discussed, more architects may be consulted, and, finally, one architect, or, more commonly, a team of architects (one firm responsible for design, the other for production of construction documents) is chosen. As designs develop, they are critiqued by Disney's finance, operations, resort management, marketing, and engineering staff, according to Chao, who is constantly in contact with the architects himself, faxing ideas back and forth and guiding development. Robert Stern, now a member of Disney's corporate board of directors, has been through a number of these presentations and likens the experience to an audition. "They're made on a soundstage, with rows of chairs occupied by people from the company," notes Stern. "Decisions about a building's design are made with the same level of involvement as those made about a movie, by watching the rushes."

Chao maintains that in cultivating the work of outside architects, the "wow factor," as he calls it, is always a guiding design principle. "The first time you see Disneyland's Magic Kingdom castle, you say, 'Wow!'," explains Chao. "We want to make sure that every time you turn a corner, you have that experience, even when you go back to your hotel room."

- Michael J. Crosbie

Bonnet Creek Golf Club
Walt Disney World
Gwathmey Siegel & Associates

Disney considered four architecture firms before selecting Gwathmey Siegel & Associates to design the golf club's clean, Modern structure. "We first considered traditional country-club architecture," explains Wing Chao, "so we had a couple of Georgian schemes, but they didn't seem right." Given the context of natural landscapes, the idea of creating a contrasting, sculptural object in the landscape seemed promising. "We looked at Philip Johnson's Glass House in New Canaan, Connecticut, which is surrounded by trees, as inspiration," says Chao.

Sunk into a hill, the two-story building appears as one story when approached from the southwest. A crisply detailed porte cochere of thin steel frame and translucent fiberglass arcs over the entry. The splayed walls of the foyer lead to a round skylit core, from which the building's functions are visible: a pro shop to the north, whose ribbon windows frame sliver views of the golf course; a grill and banquet room to the east, overlooking a lake on the building's northeast side; and locker rooms to the northwest and south. The building also acts as a gateway to the golf course, with a long flight of stairs extending to the building's lakeside. Bold, deep colors, each applied to a separate element, are not the typical muted colors of Disney World, but serve to distinguish the building among the rolling, green hills. Chao praises the golf club as a "jewel in the landscape." —M.J.C.
Contemporary Resort Hotel Lobby
Walt Disney World
Daroff Design

DISNEY WORLD'S CONTEMPORARY HOTEL, designed by Welton Becket in 1971, is an icon of "futuristic" architecture, with a 15-story atrium through which a monorail glides. But the future is not what it used to be, and 20 years later, the Contemporary's interior appeared frayed, if not downright depressing. Philadelphia-based Daroff Design introduced bright new colors, materials, and dynamic geometries that would make even the Jetsons feel at home.

"We had to live up to the name 'Contemporary,'" says Wing Chao in describing the renovation. "An initial scheme showed a clean, Modern design, but we thought it was too commercial and would soon look outdated. Then we started looking at the work of contemporary artists Andy Warhol, Frank Stella, Jasper Johns. How could their esthetic be applied to three-dimensional space?"

Daroff Design met the requirements by skewing and radiating grids on walls and floors to give the illusion that the lobby is in constant motion, shifting within its container. The 18,000-square-foot space was expanded by glazing three structural bays on the exterior to capture needed daylight. Ceilings were dropped around core elements such as elevators and the reception desk to make ceilings appear higher elsewhere. Curved walls in synthetic stone and perforated metal act as sculptural objects, playing off carpet patterns and furnishings. Colors throughout were chosen to coordinate with Gwathmey Siegel's new convention center next door.

—M.J.C.

Curved, radiating floor grids (plan) suggest motion, as curved ceiling planes (above and left) raise perceived lobby height. Lacquer-finished fiberglass columns, furniture, and perforated metal screens (facing page) animate the low, rectilinear lobby.
ARCHITECT DOUGLAS GARDNER ADMITS THAT HE TOOK on the role of architect with Maguire Thomas Partners, the Los Angeles-based real estate giant, with some trepidation. After 13 years with I.M. Pei & Partners, where he had begun practice fresh out of Yale Architecture School in 1975, Gardner feared he “might be disenfranchised from the design process.” But the 41-year-old architect explains, “I was surprised to discover that my influence on architecture is more potent working here than it might be in conventional practice.”

Maguire Thomas Partners, with a staff of about 225 and offices in Los Angeles, Dallas, and Philadelphia, specializes in mixed-use development in urban settings. Started in 1965, the development company has completed approximately 19 million square feet of projects, including the Solana office and commercial park in Dallas/Fort Worth by Legorreta Arquitectos and Leason Pomeroy Associates, and Plaza Las Fuentes in downtown Pasadena by Moore Ruble Yudell, Lawrence Halprin, Gruen Associates, and Barton Myers Associates. Gardner first associated with Maguire Thomas while he was working in Pei’s office on Commerce Square in Philadelphia: approximately 2 million square feet of office space and a public plaza. The architect was impressed with the developer’s philosophy, which is that responsible design contributes to the life of a city. Instead of constructing isolated office towers with little connection to their surroundings, the company has developed challenging, complex projects that incorporate pedestrian open space, parks, mixed uses, and sensitive scale.

Upon joining Maguire Thomas in 1989, Gardner became project manager of Playa Vista, a mixed-use development planned for a 1,000-acre site on the west side of Los Angeles, just southeast of Marina del Rey. The project will combine residential, office, retail, recreational, and educational uses with open space (facing page) and is being planned by a cast of designers noted for their urban work, including Andres Duany and Elizabeth Plater-Zyberk; Moore Ruble Yudell Architects; Legorreta Arquitectos; Moule & Polyzoides Architects and Urbanists; and Hanna/Olin landscape architects.

Maguire Thomas develops it projects using a team approach, with an architect often serving as project manager. The Playa Vista team comprises about 15 people within the company: financial, accounting, and property management personnel; public policy experts; a construction manager; and support staff. Gardner has supervised continual meetings with planning, engineering, transportation, and environmental protection bodies, from the California Coastal Commission to the Army Corps of Engineers. He and Nelson Rising, the company’s partner-in-charge of Playa Vista, have also spent many hours presenting and discussing the design with local community groups. The site borders five L.A. communities, each with a half dozen neighborhood organizations. “They often call us, curious about the plan,” admits Gardner. “We make presentations and keep them updated about the design.”

In working with the design team, Gardner finds that he most often wears the hat of a developer. He sets the agenda and conducts the team’s quarterly meetings, guides the design, and clarifies development priorities. “I also act as a critic,” notes Gardner, “and set ground rules for the work of the design team.” Buzz Yudell of Moore Ruble Yudell explains that Gardner’s guiding role has kept Playa Vista grounded in the reality of complex urban design. “He can represent all sides of a situation, knowing how architects work, the development company’s goals, and getting things built within existing political and financial restraints.”

Gardner claims that his experiences as a corporate architect have made him more aware of how architects may significantly affect design if they step out of their private-practitioner role. As he points out, architects often become involved in the design of a building only after important decisions about program, site, and size have been decided.

“The conventional role of the architect is reactive: to respond to a given set of problems, rather than defining what those problems are,” notes Gardner. “Working as an architect within a development company, I can influence fundamental issues—transportation, land use, building program—that will ultimately be translated into built form.”

—MICHAEL J. CROSBIE
Playa Vista
Los Angeles, California

THE DESIGN OF PLAYA VISTA, A LARGE INDUSTRIAL TRACT SOUTHEAST OF MARINA DEL REY, ATTEMPTS TO REVERSE CONVENTIONAL PLANNING: LOW DENSITY, RESTRICTIVE ZONING, AND RELIANCE ON AUTOMOBILE TRANSPORT. THE 1,000-ACRE DEVELOPMENT WILL CREATE SEVEN DISTINCT NEIGHBORHOODS, EACH WITH ITS OWN MIX OF HOUSING, OFFICES, RETAIL, HOTELS, SCHOOLS, AND RECREATIONAL USES—ALL WITHIN A FIVE-MINUTE WALK OF ANY RESIDENCE. AN INTERNAL PUBLIC TRANSIT SYSTEM, CYCLE PATHS, AND PEDESTRIAN ROUTES WILL LINK THE NEIGHBORHOODS. FULLY 40 PERCENT OF THE ACREAGE WILL BE LEFT AS OPEN SPACE, INCLUDING A 260-ACRE WETLAND PRESERVE, LINEAR PARKS SYSTEMS, PLAYING FIELDS, JOGGING PATHS, AND WATERFRONT AREAS.

Playa Vista will comprise approximately 13,000 multifamily residential units, many based on the courtyard housing common to Los Angeles. Streets will be heavily planted with trees and vegetation native to the region. The development will also incorporate its own "ecological infrastructure" to help relieve the strain on the region's present systems, with its own recycling facilities and wastewater and solid-waste treatment systems.

Douglas Gardner attests, "Securing entitlements for this project is a major undertaking, and the approval process is numbingly complex." Gardner has supervised planning, coordinated consultants, and negotiated with public agencies for approvals for the project. "Los Angeles has a reputation for 'anything goes' in terms of development," says Gardner, "and for not dealing with growth responsibly. Playa Vista will demonstrate that this needn't be the case." Construction is scheduled to begin in the spring of 1993, with completion in 1995.

At Playa Vista (bottom), retail centers (top) are located adjacent to housing. Among multifamily housing schemes are luxury condominiums (above) and traditional California houses clustered around courtyards (left and facing page).
Backwoods Craft

DEEP IN THE OZARK MOUNTAINS, NOT FAR FROM MUTTON Hollow Craft Village, Baldknobbers Hillbilly Jamboree Show, and Haunted Hayrides, a rustic mountain retreat artfully blends 19th-century craftsmanship with late 20th-century technology. While many visitors may think it has been there forever, the 201-room backwoods getaway has taken shape over the past four years. That’s a tribute to owner John L. Morris and the in-house staff he employs to design and build every structure on the 300-acre parcel.

Big Cedar Lodge is one of several subsidiaries of Bass Pro Shops, the 21-year-old sporting-goods retailer and manufacturer best known for Bass Pro Shops Outdoor World, a giant hunting and fishing emporium in Springfield, Missouri. Founded by 44-year-old Morris, an avid hunter, fisherman, and conservationist, the retail operation has grown into a 315,000-square-foot extravaganza that bills itself as “the world’s largest sporting-goods store by reputation.” A large part of its appeal is its hybrid nature—part fisherman’s paradise, part department store, part aquatic museum. Drawing more than three million visitors a year, it rivals St. Louis’s Gateway Arch as the number-one tourist attraction in the “Show Me” state.

Capitalizing on the phenomenal growth of his first business, Morris branched out into related areas over the past 15 years, launching Tracker Marine, a designer and manufacturer of power boats; Redhead, a sportswear maker; American Rod and Gun, a wholesale supplier; and Outdoor World Travel, a travel agency specializing in adventure trips. After years of commissioning architectural firms for specific projects, he decided nearly five years ago to form an in-house office to oversee the company’s many building projects, and hired Thomas W. Jowett to serve as its director. Jowett, 39, a native of Independence, Missouri, who was educated at the University of Nebraska, first met Morris while he was director of design for a Kansas City firm commissioned by Bass Pro Shops; he went to work for Morris’s company in November of 1987.

Jowett was joined eight months later by Donald Briggs, a 35-year-old Muskogee, Oklahoma, native who studied at the University of Arkansas. Before coming to Bass Pro

Big Cedar Lodge
Ridgedale, Missouri

FROM THE MINUTE VISITORS DRIVE through the entrance gate and up the winding trail that leads to the registration house for Big Cedar Lodge, they are treated to an Ozark original. Constructed on land that was once the private getaway of railroad magnate Harry Worman and later used as a dude ranch, the lodge consists of more than three dozen buildings that overlook Table Rock Lake, a man-made body of water that has become a regional center for hunting and fishing. A rustic restaurant and community building (facing page, top) frame a pool that overlooks the lake below. The four-story Valley View Lodge (facing page, bottom right), the largest single building on the property, is reminiscent of an Adirondack lodge, with starburst patterns in cedar under the eaves. A site plan by Bass Pro Shops’ architecture department (facing page, bottom left) shows how the buildings are clustered on the former Worman estate, whose original residence has been converted into a registration area and gift shop. After four years, the community is a mixture of recycled older buildings and new ones built nearby, with styles ranging from Tudoresque to Late Victorian that reinforce a symbiotic relationship to the surrounding landscape. “One of our primary objectives has been to touch the human emotions by creating a strong feeling of place,” maintains in-house architect Donald Briggs.
shops, Briggs recalls, he worked for five companies in five years, specializing in custom houses, commercial work, and ecclesiastical design. In 1989, Morris hired Rene Wade, a Springfield native and graduate of the town’s recently accredited Hammons School of Architecture at Drury College. Rounding out the department are design coordinator Jeff Masters, who is pursuing an interior design degree; construction supervisor Guy Essay; and office manager Jan Burch.

The Bass Pro Shops team also manages a full-time staff of cabinetmakers, ironworkers, and other craftsmen, and hires additional consultants as needed. “We are in touch with the region’s traditions. ‘We’re from Missouri and we’re trying to capture Missouri,’ says Tim Burrows, a 43-year-old metal artisan who had his own welding shop before joining Morris. ‘We want to leave something for others when we’re gone.’”

The staff works out of the corporate offices that Bass Pro Shops maintains in the shopping mall next to Outdoor World. The design studio is visible through a storefront window—a sign of its importance within the organization. Jowett is in charge of management and design, and Briggs is his chief designer. Wade works on construction documents and signage for the various properties, and Masters handles exhibit work, fixtures, and store design. All spend time in the field, overseeing construction and working alongside contractors and craftsmen.

Although they recently completed a new manufacturing facility for Tracker Marine and are planning to expand Outdoor World, much of the staff’s attention these days is devoted to Big Cedar Lodge, 50 miles to the south of Springfield in Ridgedale, Missouri. There, Jowett, Briggs, and the design team are to Morris what Imagineers are to Disney’s Michael Eisner. And what they have produced at Big Cedar Lodge is nothing less than a Disneyland of the Ozarks.

After four years of development, the camp-like resort is a mixture of recycled older buildings and new ones constructed nearby, all showcasing vernacular building traditions of the Ozark Mountains. Styles include Tuscanesque, Late Victorian, and Adirondack Rustic. Guest accommodations range from simple log cabins to cozy cottages to spacious suites inside a four-story lodge that features panoramic views of Table Rock Lake. The owner originally wanted to make Big Cedar Lodge a campground for hunting and fishing, but later decided to create a more upscale resort for couples or families, complete with a corporate meeting center. The grounds include stables, a marina, and other facilities for horseback riding, hunting, fishing, tennis, and miniature golf. Because the lodge has been so successful, with occupancy rates of 80 percent or more even in winter, the owner has kept the architects busy making plans for its expansion, including a possible golf course, more cabins, and perhaps permanent residences. “We have a workload projected for the next 20 years,” Briggs maintains. “There is no end in sight.”

Briggs says the design process works well because the team members are comfortable working with one another and are “on the same wavelength” as Morris. At Big Cedar, the owner typically discusses a project with corporate architect Thomas Jowett, who then might ask Briggs to design it. Briggs, in turn, gives the design to the carpenters or metalworkers to fabricate. The process is essentially the same whether the project is large or small.

Jowett stresses that the goal of the in-house architects is to carry out Morris’s vision, not their own. But he and Briggs say Morris gives them enough latitude and encouragement to be creative. The reward, they say, comes from helping the owner realize his vision—and touching other people in the process. “People are really hungry for something that is not generic,” Briggs maintains. “I think there is a real desire for craftsmanship.” Adds Jowett, “You study in school about Gothic cathedrals and how the stonemasons carved faces into the walls as an expression of themselves. That spirit is being revived here.”

—Edward Guns

Collaboration between architects and craftsmen at Big Cedar Lodge is evident throughout the 38-building complex. A cedar, ponderosa pine, and gnarled oak stairway in the community building (top left) leads to the “grand view” room (center left), with timber roof trusses. A large stained glass window provides views of the lake from one of the guest cottages (bottom left), which also features a taxidermy menagerie. To create lighting (facing page), in-house architect Donald Briggs drew rough sketches (facing page, left column) to give craftsmen Tim Burrows and Jay Wood an idea of the size and character of the fixtures, then allowed them to develop the designs on their own. Deer antlers, turtle shells, and other natural forms convey hunting and fishing themes. “I think of it as Ozark-itecture,” says Briggs.
Although the state's economy is struggling like the rest of the nation's, the nine campuses of the University of California (UC) system are engaged in their biggest building program since the 1960s. With $3 billion worth of construction projects currently under way and plans on the boards for a 10th campus in the Merced-Modesto region, construction at UC, funded largely by state bond issues passed in the late 1980s, has turned the nine schools into modern-day WPA projects. According to Michael J. Bocchicchio, the architect who serves as assistant vice president-facilities administrator of the entire UC system, "Governor Wilson views building within our university system as one way to stimulate the state's economy. We have to grow to meet demand." The state guarantees a spot at the University of California to the top 12 percent of graduating seniors; the class of 2005 is expected to exceed the class of 1992 by as much as 23 percent.

That growth has pushed architects working within the UC system to new prominence, as both stewards of their respective campuses and as agents for commissioning leading architects from around the country. The campus architect whose university environment may be most affected by the need to accommodate more students is Frank Zwart of the University of California, Santa Cruz.

Set among 2,000 acres of Northern California coastal forest and grassland, the university now boasts 10,000 students and anticipates a 50 percent increase by 2005. The institution comprises eight distinct colleges, each with its own architectural as well as academic identity, surrounding a campus core of science and library buildings. UCSC is also a haven for social and environmental activists; both students and townspeople were arrested in a recent protest against cutting trees for new buildings. Zwart, a former UCSC student with an abiding interest in preserving the campus's pristine environment, admits, "The best of our buildings extraordinarily respect the land. As the campus gets larger, that's harder and harder to do."

Since opening in 1965, UC Santa Cruz has followed a long-range development plan by John Carl Warnecke and Associates and Anshen + Allen, for which the grandfather of landscape architecture, site planning, and preservation in California, Thomas Church, served as a consultant. That plan and its three subsequent revisions provide the impetus for a long tradition of buildings in harmony with their surroundings.

Zwart sees his challenge as shepherding the school's inevitable growth while protecting its environmental legacy. A second-generation California native who graduated with a math degree in 1971, Zwart's first response to a professor who suggested a career in architecture was that he didn't want anything to do with the buildings being constructed at the time. Yet he had only to look around at Santa Cruz's new campus, at Joseph Esherick's Stevenson College and Hugh Stubbins's Porter College, to be inspired. Zwart began Princeton's architecture program in 1973, one of two Santa Cruz students in a class of 15.

Housing studies of the UCSC campus (right) by the team of William Turnbull Associates, Community Development By Design, LSA Associates, and Lyndon/Buchanan Associates are designed to respect natural areas.
"It may sound corny," Zwart confesses, "but I feel that my choice of profession is in large part due to having studied here, and I feel very close to the campus. It's a chance to repay a kind of debt." Zwart joined the campus architecture staff in 1985 after working for several small firms on both coasts; he was hired to head the 28-person office after a nationwide search in 1988.

The current $100 million building program under Zwart's stewardship includes a physical sciences building by Moore Ruble Yudell and McLellan Copenhagen; a music facility by Antoine Predock; Esherick Homsey Dodge and Davis's Colleges Nine and Ten, and Zimmer Gunsul Frasca Partnership's earth and marine sciences building. With only a third of its land presently developed, UC Santa Cruz clearly has room to accommodate future state-of-the-art facilities as well.

Zwart plays a hands-on role in all stages of the architect selection process, but his is by no means the final say. Once a project for the campus has been approved by the state's board of regents, Zwart's office advertises it in local newspapers, requesting that firms submit statements of interest. He and his staff screen 40 to 70 responses, narrowing the field to 20-25 firms which are sent questionnaires. Those firms are asked for references from clients and contractors, and are required to prove prior experience on similar building projects. The responses are evaluated by Zwart and his staff, who cut the submissions down to 10, which are sent to a selection committee comprising the campus architect, another architect from Zwart's staff, members of the department—including students—requesting the building, and the university's director of capital planning. The group narrows the field to the four or five firms that will actually present their qualifications to the selection committee, which then chooses an architect by consensus. "People come to similar conclusions very quickly," Zwart notes. "A lot of proposals come across as being too corporate, and people will say, 'That's not right for Santa Cruz.' The campus is a real lesson in the power of good design."

Over the next decade, Zwart would like the campus's growth to appear seamless, preserving the natural beauty that the 42-year-old architect learned to respect as a student 25 years ago. "When you are a campus architect, you live with what you do," Zwart muses. "For projects that are great successes, that's terrific. For those that are less successful, you have painful reminders of what needs to be better next time." —HEIDI LANDECKER
Science Library
Esherick Homsey Dodge and Davis

Originally selected in the early 1980s to build an addition to an existing science library, Esherick Homsey Dodge and Davis (EHDD) was on the job when Frank Zwart was hired as associate architect in the office he now heads. As funds came through for a new library, Zwart worked with the librarians to help convey their program needs to the architects, serving as a liaison between the users and the design team throughout the project. He credits the architects with making that an easy task, adding, "They broached creative solutions to fit the user's needs."

Situated on a ridge called Science Hill, the Science Library demonstrates one of Zwart's priorities: creating open spaces within the campus core. With landscape architects Nishita & Carter, who designed the landscape of earlier Santa Cruz colleges when they worked for Lawrence Halprin, EHDD included a tree-shaded plaza at the library's entrance. This public space links the library to an existing science laboratory and classroom building on the site and creates a gathering point for science students.

The architects solved the problem of building on a wooded slope without removing too many trees by arranging the library into a sawtooth footprint. The building steps down the hillside, its main entrance located on the second floor, which is level with the site's highest point. Special functions such as periodicals, reference services, and the card catalog are also organized on this level, which is sandwiched between the stacks on the first and third floors. The primary reading spaces are positioned along the northeast side of the building, where the sawtooth perimeter and steel-framed glass walls afford the best views of surrounding trees. "We developed these corner reading areas as open, treehouse-type spaces that thrust out into the woods," asserts EHDD project designer and manager Todd Sklar, who adds that he kept a picture of his childhood treehouse at his desk while working on the library.

The periodicals room, which is extremely important to students and faculty engaged in scientific research, is elevated on a concrete column (facing page, bottom). In the interest of retaining a simple, maintenance-free structure, the architects chose concrete bearing walls supporting waffle slabs. The architects clad stair towers and elevator shafts in copper to provide a visual accent and link the building with nearby copper-roofed buildings.
F OR CAMPUS ARCHITECT CHARLES WARNER “DUKE” OAKLEY, AIA, flexibility, patience, and an ability to steer through mountains of bureaucracy are all in a day’s work. His job includes overseeing some $1.1 billion worth of projects currently in programming, design, working drawings, or construction at the University of California, Los Angeles (UCLA), one of the nation’s top research institutions. Under his surveillance is the largest building program of all the nine colleges in the UC system, on one of the smallest campuses, with the system’s largest student population. Where UC San Diego (pages 66-69) supports 18,000 students on 1,600 acres and UC Santa Cruz (pages 62-65) houses 10,000 on 2,000 acres, UCLA maintains a steady population of 55,000 on 419 acres. Oakley likes the dense, urban campus to a small city. "But where else," asks the director of Capital Programs, Design & Construction, "does an architect get the chance to visualize a comprehensive environment and receive the tools to make it real?"

Established in 1929 on a group of north-south-running ridges that reminded its earliest architects of Italian hills, UCLA’s campus, with its Lombardian Romanesque central core, is also the second oldest in the system. Therefore, a portion of Oakley’s budget goes to renovating and replacing older structures, many of which have their own architectural identity and emotional appeal. For instance, the site of Pei Cobb Freed & Partners’ Anderson Graduate School of Management, now under construction, impinged upon 9 wooded acres that belonged to the Corinne A. Seeds University Elementary School (UES), a private school built on campus in 1946. A much-loved school for faculty children, the UES included several classrooms designed in the 1950s by Richard Neutra. Oakley commissioned a study of the Neutra buildings, revealing that the late Modern master had designed them in partnership with California architect Robert Alexander, as expansions to Alexander’s original complex for the school.

Oakley’s staff analyzed the site, and, in the end, came up with a scheme that meant razing three of the Neutra-Alexander buildings. “Not without regrets,” Oakley admits. “It’s sort of like growing up.” A new, state-of-the-art school building has been designed by Los Angeles architect Barton Phelps. As if completing a circle, Phelps included Alexander, now retired, on the design team.

Such history and density necessitate sound planning and urban design for new buildings, so Oakley administers a thorough pre-RFP process. His staff, which includes 40 architects, carries out a feasibility study and develops a detailed master plan. They pick the site, determine circulation, underground utilities, landscape and parking, and develop the program. “We then take our best shot at two or three conceptual designs for the project,” explains Sarah Jensen, associate director of Capital Programs, Design & Construction, and they then estimate costs to see if the project matches its funds. “By the time the architect is selected,” Jensen maintains, “we have a good set of master-planning guidelines, a good existing-conditions survey, a program, and a budget.” The in-house design is abandoned, but commissioned architects are required to work within the master plan drawn up by Oakley and his staff.

“Getting a design on paper isn’t the answer for me,” says Oakley, who has used a wheelchair for mobility since a sports accident at Dartmouth College left him a paraplegic. “I want to get the project built.” For the 47-year-old architect, getting a project built means seeing it through the state funding cycle, gaining approval from users, administration, academic senate, and California’s Board of Regents, and then bringing together users and architects to get them talking the same language. According to Oakley, that process is the challenge: “If you want to bring about your ideas of quality architecture and good campus design, you have to get it built.”

Architects whose buildings are now part of the UCLA campus attest that constructing them was no easy task. Barton Phelps, whose addition to the university’s rare books library was completed in 1990, describes UCLA’s democratic approvals process as a bureaucracy that tends to work against good architecture. “Duke walks the line between that bureaucracy and his heartfelt concerns about trying to do the best buildings possible. That’s an enormously stressful, continually compromised position that a lot of architects wouldn’t be able to tolerate. But he’s fundamentally interested in the greatest good for the most people.” Part of the reason architects appreciate Oakley is that he understands their frustration with the university’s endless meetings and red tape. When Phelps called to complain about a hang-up on the library project, Oakley soothed him, commenting, “If it makes you feel any better, this week I’ve received calls like this from Harry Cobb, Robert Venturi, and Craig Hodgetts.”

However, as Los Angeles architect Rebecca Binder points out, Oakley also gives architects free rein, affording them the responsibility they require to do their best work. Binder’s addition to the Ackerman Student Union will incorporate much-needed space into the 30-year-old Welton Becker-designed building, as well as reconfigure both streetscape and scale along Westwood Plaza, the
University of California, Los Angeles
Westwood, California

1. NORTHWEST HOUSING
EHDD, ANTOINE PREDOCK, BARTON MYERS, AND GENSLER & ASSOCIATES, ARCHITECTS

2. UNIVERSITY ELEMENTARY SCHOOL
BARTON PHELPS & ASSOCIATES, ARCHITECT

3. ANDERSON SCHOOL OF MANAGEMENT
FEI COBB FREED & PARTNERS, ARCHITECT

4. ACKERMAN UNION ADDITION
R.L. BINDER, ARCHITECT

5. CHILLER PLANT WITH COGENERATION
HOLT HINSHAW PF AU JONES, ARCHITECT

6. MACDONALD RESEARCH LABORATORIES
VENTURI, SCOTT BROWN AND ASSOCIATES AND PAYETTE ASSOCIATES, ARCHITECTS

7. BIOCHEMISTRY BUILDING
ANSHEN & ALLENI, ARCHITECT

8. UCLA GATEWAY
HODGETTS AND FUNG DESIGN ASSOCIATES
campus's most important pedestrian zone. "He gives us good directions and the latitude to get the work done," Binder asserts.

Oakley's experience uniquely positions him to appreciate the university's history as well as its present needs. Before joining UCLA, he studied architecture under Louis Kahn at the University of Pennsylvania, practiced for eight years with John Carl Warnecke & Associates, served as consultant to UCLA's campus architects, and took charge of the Campus Architects and Engineers office six years ago. Retaining the title of campus architect, he was promoted to director of Capital Programs, Design & Construction in 1990, bringing building construction under his purview. He first came to the campus in 1984 as project designer and director for Warnecke's renovation of Royce Hall, the 1929 Lombardian Romanesque building that, as the architect notes, "appears on all our trays and coffee mugs." Yet Oakley recognizes that UCLA, which began as a commuter college for teachers, now needs modern medical and scientific facilities to compete with the other top research institutions in the nation. "When I took sociology at Dartmouth 30 years ago," Oakley quips, "you didn't need a lab. Education has changed, and architects who want to compete have to change too."

A committed Modernist, Oakley nevertheless recognizes a need for blending new and old into a unified campus ensemble. "In the '50s and '60s, architects unwilling to go against the Modernist tide created a campus that lacked coherence and a sense of identity," he admits. He describes that last phase of campus-building, which ended in the early '60s, as a series of ad hoc choices that eroded the order established by the original architects of the Neo-Romanesque campus core. "Whatever we accomplish in the period of my tenure," Oakley muses, "I don't think we can err on the side of too much order."

To that end, Oakley perceives his current projects as a series of individual places that, together, will make a sum greater than the parts. "When I look for architects, I want people who have proved that they can design in such a way that the whole is strengthened." For instance, shortly after awarding the MacDonald Research Laboratories to Robert Venturi, the university commissioned Anshen + Allen to design another laboratory at the end of a nearby walkway. "Their approach is dialectically opposite," Oakley admits, "but the bones of what they do, how they feel the building functioning as a part of the campus, are the same." —HEIDI LANDECKER

Antoine Predock's Northwest Housing residences are arranged around a triangular courtyard (above), and include a convenience store/café area (top) and dormitory buildings (left). Esherick Homsey Dodge and Davis's new dormitories (facing page) are clustered around courtyards. The complex also includes Barton Myers's rectangular residence building over a parking garage and a commons building with circular bay overlooking the campus.
Northwest Housing
Escherick Homsey Dodge and Davis,
Gensler Associates, Antoine Predock, and
Barton Myers, Architects

CHARLES OAKLEY LIKENS UCLA’S 1960S HIGHRISE DORMITORIES TO PRUITT IGOE, THE COUNTRY’S MOST INFAMOUS PUBLIC HOUSING COMPLEX. FOR A NEW, 1,260-BED RESIDENTIAL COMPLEX, HIS DEPARTMENT DETERMINED THAT NEW HOUSING COULD BE INSERTED AMONG THE EXISTING DORMITORIES BY RELOCATING TENNIS COURTS. WORKING WITH THE HOUSING ADMINISTRATION, OAKLEY AND HIS STAFF CAME UP WITH THE IDEA OF A STUDENT VILLAGE, WITH A CENTRAL COMMONS AND CAFETERIA BUILDING, OPEN SPACES, SNACK BARS, AND CAFÉS.


“We wanted to respond to UCLA’s complex mosaic of cultures,” Myers explains. The team arranged the residences as three 400-unit complexes, each organized into “houses” of 50 units around a courtyard. The dorms will be served by Myers’s Commons Building (center of plan), to be completed, along with his rectangular dormitory (right in plan), in summer 1992. Completed buildings include Antoine Predock’s residences and café, configured around a sloping triangular courtyard (facing page, center). EHDD’s complex includes eight irregularly configured houses, each with its own entrance, central stair, and living room.

Oakley’s challenge included arbitrating budgetary disputes between the housing office and the design architects, several of whom remain dissatisfied with the resolution of their projects. George Homsey laments the loss of trellises that would have softened his firm’s residences, while Antoine Predock regrets the university’s color palette. Oakley admits that the project probably fails to meet its designers’ expectations, but wishes “the architects could understand how much better off we are with their housing than we were before.”
Before any architects were commissioned for the 155,000-square-foot research laboratory for UCLA's medical school, Duke Oakley and his staff conducted a detailed master plan of the southern edge of campus, an area located between the medical school complex and the main campus. A parking lot was designated a site for two science buildings enclosing a courtyard, with a walkway along their northern perimeter to connect UCLA's main thoroughfare to the Court of the Sciences on the ridge above. Before advertising for an architect, the office researched successful labs around the country and sent RFQs to several architects noted for their labs. "Forty bad labs wasn't as good a recommendation as one good one," notes Oakley. The team of Venturi, Scott Brown and Payette Associates had recently finished the Lewis Thomas Laboratory at Princeton, so they were asked to submit a proposal, and were ultimately selected by a committee of users, administrators, and Oakley himself.

Oakley describes the next phase of his work as representing "the users of the walkways and open spaces." Although funding was only secure for one structure, Venturi was asked to include a scheme for an eventual second building on the site, defining the plaza between them. Oakley administered a series of meetings between users and designers, including one between Venturi and UCLA chancellor Charles E. Young. "Venturi explained his building as a loft space full of labs wrapped with a brick skin," Oakley recalls, "and described how, in his mind, this was what a lab should be in the waning days of the 20th century."

Venturi's design accommodates Payette's flexible interiors, and its patterned brick exterior (facing page) recalls UCLA's Lombardian Romanesque central core. Limestone was selected to clad the first three stories of the building (top left) because the architect felt its light color would cheer the courtyard. A staircase leads up through an arch, angled slightly away from the building, pointing the way to a new walkway that will create an important east-west axis for the campus. At the base of the stair, a two-dimensional UCLA bruin surmounts a pedestal (facing page). Glazed tiles and steel columns adorn the arcade (above left and center left) to create a pedestrian scale at ground level.
Boone Hellmann

CAMPUS ARCHITECT

College Unifier

When Campus Architect Maxwell Boone Hellmann, AIA (known as Boone), arrived at the University of California at San Diego (UCSD) in 1985, he was planning to attend law school. Although he now is in charge of UCSD's $638 million capital improvements program; directs a staff of 75 architects, engineers, accountants, and support people; oversees $200 million worth of projects currently under construction; and recently received his AIA chapter's annual Corporate Architect award, Hellmann still seems somewhat astonished by his professional success. The 37-year-old architect clearly loves his work, but adds that he "fell into this job by accident. I never even knew this career existed."

An architect trained in both the theoretical program of the University of Oregon and the nuts-and-bolts program of the University of Idaho, Hellmann began working in 1977 for his father's 15-person Reno, Nevada, firm, Raymond Hellmann, Architect. The younger Hellmann says his father's practice designed "everything from doghouses to hospitals" — that is, from a kennel for the humane society to an addition to a local VA hospital. Hellmann passed the state licensing exam in 1980; that same year, his father was diagnosed with cancer, leaving 26-year-old Hellmann, the youngest registered architect in Nevada, responsible for running the firm. "It was trial by fire," says Hellmann. He survived, and even successfully administered a large commission for a western regional headquarters for the Gannett newspaper conglomerate. After his father recovered and returned 18 months later, Hellmann decided to start his own Reno firm with another architect; but his experience with large projects left him dissatisfied with the residential work his young firm was able to secure.

Always interested in construction litigation, Hellmann began thinking about law school, a goal he had pursued briefly as an undergraduate a decade earlier. He was considering Western State University's law program in San Diego when, coincidentally, he heard about a job opportunity as a project manager on the UCSD campus. He applied, was hired as associate architect with the school's Office of Facilities Design and Construction in 1985, and planned to begin law school the following year.

But as one of the first new architects hired by UCSD, Hellmann arrived just as California's strong economy facilitated much-needed development on the 23-year-old campus. The recession of the 1970s had precluded any new construction, and California demographers had miscalculated the size of the student population for the 1980s. By the middle of the decade, the UC system was running out of room. When Hellmann was promoted in August 1986 to assistant director of design, he "put law school on the back burner."

As right-hand man to Assistant Vice Chancellor (the campus architect's official title) Charles Powers, Hellmann's responsibilities included hiring architects and engineers to support what was clearly going to be the biggest building program since UCSD moved to its present site, a former U.S. Marine Corps training camp, in 1962. Because the office lacked a sense of architecture as a service profession, Hellmann recruited design and engineering professionals with private-practice experience. In the mid-1980s, he was involved in commissioning buildings by Kaplan McLaughlin Diaz, Charles Moore, and the relatively unknown Antoine Predock.

The process of campus-building took off rapidly, but not without problems. UCSD's 1,600-acre site includes three components: to the west, Scripps Institute of Oceanography, which is positioned along Pacific coastal bluffs; West Campus, which straddles a coastal ridge; and East Campus, a chapparal marked by canyons and arroyos that fill with water in the rainy season, supporting lush vegetation. A much-loved, 363-acre eucalyptus grove runs through the center of the campus, and vistas of the ocean to the west and the Cuyamaca foothills to the east are possible from West Campus. As sites for new buildings began to be cleared, UCSD's articulate and environmentally conscientious academic community grew concerned about the lack of planning that seemed to surround new campus development.

In the resulting turmoil, Powers decided to return to private consulting, and Boone Hellmann stepped easily into the office's top post in November 1987. One of his first tasks was to assist in the preparation of a new master plan by Skidmore, Owings & Merrill, Richard Bender (dean of UC Berkeley's School of Architecture), landscape architect Emmet Wemple, and others. As a result of the detailed campus plan, completed in 1989, canyons, groves, and arroyos are protected, and areas for further development and preservation are delineated. Throughout, the goal of preserving the neighborhood identity of UCSD's five different colleges is paramount.

Hellmann's mandate includes shepherding huge building projects, such as the recently completed Molecular Biology Research Facility by Moore Ruble Yudell (ARCHITECTURE, March 1991, pages 78-81) through the UC system's Byzantine design review and approvals process. On campus, Hellmann is a member of the Capital Outlay Space Advisory Committee, which reviews departmental
requests and establishes priorities for new facilities. Based on the committee's recommendation, the university submits a funding request to David P. Gardner, president of the UC system, whose office establishes systemwide priorities. Once approved, building projects are sent to the legislature for funding, and then advertised in major regional newspapers, from which 50 to 70 responses are received.

Often, the respondents are a who's who of architectural firms: James Stewart Polshek and Partners, Richard Meier and Partners, and Frank O. Gehry & Associates have all applied. The UC system doesn't need to advertise heavily to attract this kind of competition. "There's a phenomenal grapevine," Hellmann explains. "The university constructs 100-year buildings and pays its bills on time."

Hellmann administers a screening and selection committee comprising architects from his office, the campus planning office, the university's budget office, user representatives, and a member of the design review board, a UCSD anomaly currently made up of outside architects Joseph Esherick, William Turnbull, Rob Quigley, and Ignacio Bunster-Ossa of Wallace Roberts & Todd. The selection committee creates a short list of architects, who present their ideas and credentials to the committee, which awards commissions by consensus.

As to why star architects are often chosen, Hellmann explains, "It's hard not to be impressed by the experience of renowned firms." He adds that since the university hires its faculty from among top academics all over the world, it is not surprising that it commissions prominent architects as well.

Although the campus was established on its present site at about the same time that the University of California began construction of its Santa Cruz campus, San Diego lacked the early, preservation-minded, long-range development plans that governed the northern campus (see pages 62-63). As a result, San Diego's different colleges, though academically similar to UCSC's, have never seemed part of a unified whole. Hellmann's goal for the future is to knit these disparate colleges into a cohesive fabric. He foresees creating walkways, rows of eucalyptus trees, and unifying elements that will link the various college "neighborhoods" with a central university core. "My vision," Hellmann muses, "is to get rid of the stigma that UCSD doesn't hold together. To do that, landscape is even more important than bricks and mortar."

—HEIDI LANDCKER
Campus Services Complex
Biology Field Station
Anshen + Allen, Architects

"HOW DO YOU GET SUPERIOR DESIGN FOR some warehouses?" asked Boone Hellmann, in seeking architects for a campus services building and new biology field station on a 17-acre site near a major freeway. He resolved the problem by choosing Anshen + Allen, which seemed intrigued by the challenge of designing an unglamorous project on a highly visible site. Hellmann’s mandate required designing two very diverse buildings: the Biology Field Station, which consists of labs, offices, and six greenhouses; and Campus Services, which houses the university’s post office, telecommunications, and graphics and printing services. Anshen + Allen’s solution was to design esthetically complementary buildings that create a cohesive unit on the site.

Hellmann collaborated with principal David Rinehart and senior designer Dennis McFadden to develop a three-phase scheme that places the complex at the edge of a natural arroyo. The first, completed phase of the project includes the 140,000-square-foot Campus Services building on the southern portion of the site, with an axial north-south linear footprint. To the north, the Biology Field Station is oriented along an east-west spine, with a south-facing entrance.

The Campus Services Complex comprises five buildings linked by walkways and courtyards. Cylindrical forms mark the main entrances to the one-story ensemble, and the concrete block walls appear to rise from the arroyo. Mail sorting is housed behind a curved facade at the southernmost end of the building, designed to direct visitors around to the entrances. Brightly colored awnings along the western elevation shield office windows from summer sun and distinguish the facade with a man-made element.

The Biology Field Station includes a narrow rectangle of offices and labs containing cold rooms and growth rooms with special lighting for plant experiments. Like the Campus Services building, the structure features concrete block walls and trellises.

When the second phase of the project is completed in 1994, the one-story buildings will be flanked on their eastern side by a row of warehouses to accommodate university maintenance crews. The final phase will comprise garages, creating a coherent enclave that meets Hellmann’s goal of preserving neighborhoods within a unified campus.

The Biology Field Station comprises two concrete bearing walls that enclose a steel-framed volume (above center) containing laboratories and offices. Greenhouses are located to the north and are used for agricultural experimentation. Two openings in southern elevation (top) connect to breezeways (above) that lead to greenhouses. At the easternmost end of the building are shade houses, required by the university’s population-control biologists for research with animals.