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September 1989

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Technology Update

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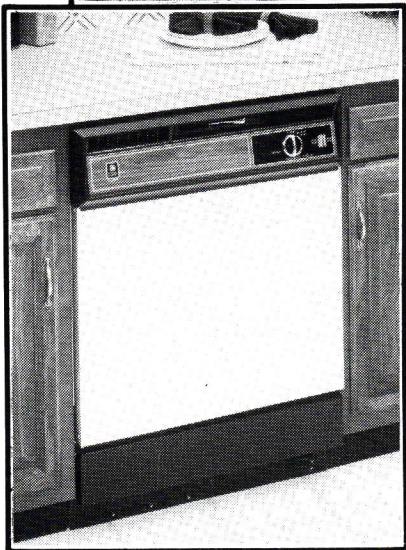
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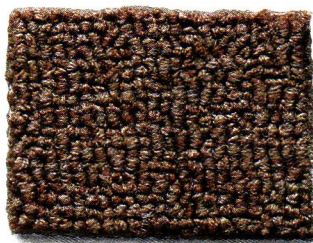
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Mall Management Vice President Charles Shaller recalls the conversion of Pearlridge's old Daiei store into a series of shops as having been a tall order for Allied Builders, but it was one that produced "spectacular results" for owners and shoppers alike.

Complicated interfacing with existing infrastructure, a tight timeline, a vital need to keep the "show on the road" at the Mall, while working effectively with various other on-scene contracting and management entities—these were the execution challenges facing the nationally honored firm.

"A lot was going on at once," recalls Architect Terry Tusher of Stringer, Tusher & Associates. "Allied's crews kept the ball rolling. When problems arose (and they always do in rehab) they were responsive and extremely candid about the resolution options."

"Good intent is swell," concludes Shaller, "but for us, the bottom line is great results. When the dust was settled, that's what we knew we had from Allied."



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Allied project manager Tim Leistico, architect Terry Tusher, AIA,
Mall Management vice president Charles Shaller

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Contents

President's Message

9 Exposing the True Nature of Our Profession

Presenting a better understanding of the architectural profession is the main goal of the Public Awareness Commission.

by Jeffrey Nishi, AIA, Guest Columnist

Office Design

12 Perpetuating the Tradition of Hospitality

In renovating the Hemmeter Corporation Building, architects sought to unveil and restore a sense of pride.

by Peggy Kusano

18 Energizing the Department of Defense

The Medical and Dental Clinic at Kaneohe Marine Corps Air Station is a state-of-the-art facility utilizing energy conservation methods.

by Franklin J. Wong, AIA

22 Creating a Tasteful First Impression

Design of The Myers Corporation offices had to reflect quality and permanence.

by David K.Y. Chung, AIA

Technology Update

26 The Superiority of Digital Data Exchange

Shorter production time and clearer drawing transmission via fax are only a few of the many advantages to digital transfer.

by Jon Toda, AIA

30 Cellular Telephones: From Novelties to Necessities

Once considered a rich man's toy, cellular phones have moved into the mainstream of business.

by Michael Linos

34 Looking for 'the Best' CAD System?

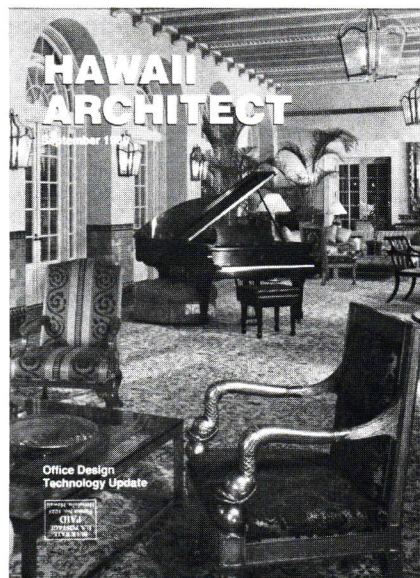
An assessment of the CAD "landscape" as it might apply to the small or mid-sized practice.

by Thomas Fisher

10 Hawaii Society/AIA Design Awards

38 News

46 New Members



Cover: Luxurious best describes the reception area on the second floor of the Hemmeter Corporation Building, which houses the executive offices. Photo by Ron Starr

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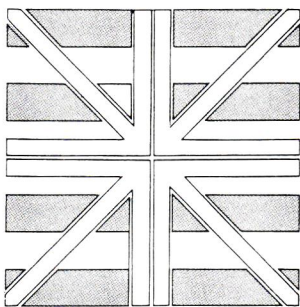
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President's Message

Exposing the True Nature of Our Profession

by Jeffrey Nishi, AIA, Guest Columnist

The picture of the architect in the public eye is quite varied and not necessarily always accurate. The nature of the scope of services provided by our profession is very often misunderstood.

The impression of the architect as a dreamer who spares no expense to make his project look pretty at the cost of function is too common a misconception.

This faulty perception is damaging to the profession and its ability to contribute service to the community. The goal of the Public Awareness Commission is to expose our profession to the public.

The vehicles used to project the true image of this profession are the annual Design Awards program, and the *Hawaii Architect* magazine and Public Education committees. These committees endeavor to familiarize the public with the nature of our profession and abilities of its practicing professionals.

Other committees within the Public Awareness Commission support direct contact with the public through the direction of information of the Public Affairs Committee, dissemination of information through the Bookstore Committee and support of the Society through the Special Events Committee.

All those committees have a specific function in the tree of administration of HS/AIA. They imply that effort is being put forth to expose the nature of our profession to the public.

However, despite the number of committees and how elaborately we administer them, the Society is nothing without the active and dedicated participation of its members.

I would like to take this opportunity to applaud all members who have worked on these committees in all capacities. I also would like to acknowledge those who have directed publicity to create exposure of the architect to the public and who have visited schools to explain our profession to the children.

All members involved in the Design Awards program, which exposes to the public the best examples of the results of our profession, also deserve recognition. I would like to thank all who have contributed to *Hawaii Architect*, the public's window into this profession.

Finally, I would like to invite more of the membership to join this group of individuals to build on what these committee members have started.

The position of the architect in this community is what we, the membership of this Society, make it. Our strength is derived through active and meaningful participation in our community and Society. HA

In lieu of her monthly message, Carol Sakata, 1989 HS/AIA president, has invited guest writers to contribute to her column to inform Society members on a variety of topics.

Jeffrey Nishi is principal of Jeffrey Nishi & Associates and head of the Public Awareness Commission.

HAWAII SOCIETY/AIA 1989 DESIGN AWARDS

Award of Merit

Architects Hawaii Limited Keelikolani Hale

The 1989 Hawaii Society/AIA Design Award for Keelikolani Hale, a state office building, and its block master plan in downtown Honolulu is the second award this year for the project.

In March, Architects Hawaii Limited received an honorable mention for Keelikolani Hale in the City & County of Honolulu's Project of the Year program.

Keelikolani Hale and its entire block, bounded by Punchbowl, Halekauwila, Mililani and Queen streets, were master planned as one project and developed in two parts.

The new Keelikolani Hale houses

the departments of Labor and Industrial Relations, Personnel Services and Taxation.

Joe Farrell, principal in charge and designer, and Larry Ueki, project architect, both of Architects Hawaii, also were charged with creating a harmonious architectural relationship with the existing Hale Auhau (old tax office building), the Federal Building and other buildings in the Hawaii Capitol District-Honolulu Civic Center.

The design fulfills Farrell's vision of wrapping a new low-rise building around an existing structure, leaving a major open space for a public park.

The entire block now consists of the new low-rise Keelikolani Hale, the historic red tile roof Hale Auhau and a generously landscaped open space.

The open space is enhanced by Mililani Mall (formerly Mililani Street), a pedestrian way visually linking the state and federal seats of government, Iolani Palace and Honolulu Harbor.

The building features an innovative vertical concrete grille on the upper floors. A covered arched walkway with bougainvillea trellis surrounds the ground floor arcade. The \$18.1 million project was completed in 1986.

CREDITS:

Architect:

Architects Hawaii Limited

Client:

State of Hawaii

Civil Engineer:

Richard M. Sato
& Associates, Inc.

Structural Engineer:

Hawaii Structural Engineers, Ltd.

Mechanical Engineer:

Frederick H. Kohloss
& Associates, Inc.

Electrical Engineer:

Douglas V. MacMahon, Ltd.

Landscape Architects:

Walters, Kimura & Associates,
Inc. (Immediate Building)
Edward Short & Associates
(Entire Block)

Interior Designer:

Architects Hawaii Limited

Contractors:

Mitsunaga Construction,
Inc. (Phase I)

Dynamic Industries Corporation
(Phase II)



One of three interior open courtyards is landscaped and paved with a tile pattern. *Photo by David Franzen*

JURY COMMENTS:

"This building is a good neighbor among monuments. It sits quietly on the street setting and contributes to and benefits from its contextual setting.

"This subtle composition of mass and proportion quietly establishes its presence without competing with the surrounding monuments.

"The interior courtyard is a pleasant relief within the building, providing light air and living plants for the enjoyment of the occupants."



This view of Keelikolani Hale from the corner of Punchbowl and Halekauwila streets shows the four-story office structure with precast concrete panels and vertical pins. *Photo by David Franzen*

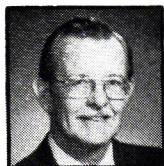
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Office Design

Perpetuating the Tradition of

by Peggy Kusano

An enchanting grace emanates from this place, a charm evoked from times past, revealed once again. For in its design, the history of the building extends beyond the life of its 1928 construction.

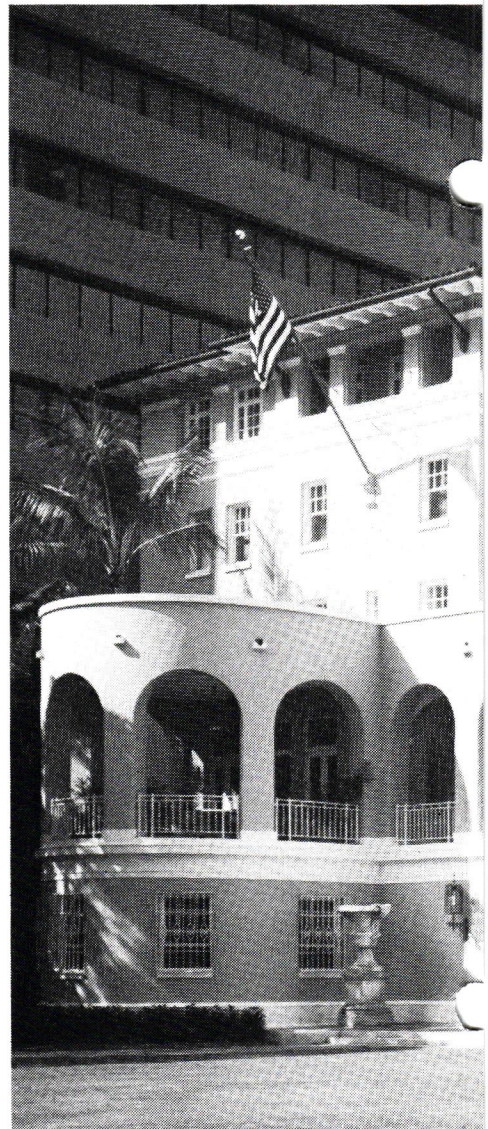
On this site in 1872 stood the picturesque Royal Hawaiian Hotel, where Hawaii's monarchs entertained visitors from around the world. In 1917, when the original structure was purchased for use as the Armed Services YMCA, the tradition of hospitality continued with the YMCA serving as a home away from home for thousands of servicemen.

Even after the building was razed because of severe termite damage, the new YMCA building carried forth in its design the hotel's semicircular lanais and graceful profile that had symbolized for so many the splendor, grace and good fellowship of another time.

Today, the Hemmeters Corporation Building sits with renewed beauty among its neighbors, beside the state Capitol, across from St. Andrew's Cathedral and close to Iolani Palace. Its large expanse of velvet green lawn, bordered by flowers and hedges, combine with large palms, monkeypod trees and fencing details to recall and complement the stately open

spaces of the Capitol district.

Officially designated on the state of Hawaii and National Registers of Historic Buildings, the YMCA building was old and more than worn when it was acquired by Chris Hemmeters, who began the process of



Cast stone detailing and iron grillwork are historic trademarks of the Spanish mission-style stucco Hemmeters Corporation Building. Photo by Ron Starr

Hospitality

restoring the building in June 1987.

Renewing this Spanish mission-style stucco building, with its cast stone detailing, iron grillwork, soffit stenciling and ornamental light fixtures, called for a close working relationship with the

National Park Service, which administers historic preservation.

The turrets and other sections had been boarded up, and small cubicles for sleeping had been squeezed in everywhere, as more and more men, and then their families, overflowed into every

possible space of the building's original 400 rooms.

Chris Hemmeter and project director Paul Ma, however, saw it as it had been during its best years — a happy place and a haven where soldiers would come for rest and recreation.



"This was a great opportunity to bring back the grace we saw in the original building, to bring dignity to the location near the Capitol district, and bring a sense of life back to what was," said Ma. "We hoped that when the work was done, we would feel as though no one had done anything — that it looked as it would have when it was built."

Transforming the building into the new corporate headquarters while restoring significant historical and architectural elements was a tremendously extensive project.

Exterior surfaces were cleaned, patched and repainted. Exposed conduits and pipes were relocated into interior wall chases. Existing doors, windows, balconies and ornamental window grilles were repaired. If not repairable, they were replicated.

The ground floor and second floor lobbies, lanais at the second floor, arched windows and brick interior walls of the former gymnasium, tiled walls and stucco walls with wood ornamentation and trim were all retained and carefully restored.

The Olympic-sized swimming pool, focal point of the central open court, also was restored and given new life.

The entire building was then repainted a slightly lighter color, the original green trim was changed to off-white.

"Working with the National Park Service was a fun process, as they were very cooperative and helped us realize what we could do within the guidelines to which we had to adhere," said Ma.

Jeanne Möller, a Hemmeter Design Group project architect, handled the processing and interface with the National Park Service, and dedicated herself to making sure the project conformed completely.

To rehabilitate the space into offices for the Hemmeter companies and provide such employee amenities as a dining room and aerobics and fitness/

weight rooms, the majority of the existing partitions throughout the building were removed.

"There was much we had to do to make it function. We gutted the building. It was more than retrofit — everything had to be redone," explained Ma. "The building was difficult to make into an office building, in terms of dimensions and sizes. Working this way was a real challenge."

Ma credits Dick Riegels, development and control manager for Hemmeter Development Corporation, for doing a good job in administering the construction process and, incredibly, leaving no scars in the demolition process.

A five-story addition also was made to the west wing. The old exterior wall was restored and now serves as an interior wall,

with original windows, belt-course detailing and soffit featured at the mezzanine level of the library/exhibit hall on the fourth floor.

A new central mechanical plant is housed within the addition to serve the entire building. A new elevator and shaft facilitates vertical circulation between the floors.

"Hemmeter Corporation is an ideas-driven firm," said Ma. "We wanted an image of the building and environment that was not like an architectural office, not corporate, but more like the product we do. Our projects are rest and recreation projects, and we wanted to make sure to bring in an environment that would have comfort, flexibility and a

(continued)



Designed openly with extensive use of marble and light colors, Chris Hemmeter's office reflects his sense of space. Photo by Ron Starr



There is nothing quite like the cool elegance of marble. The inner lobby of the Punahou Cliffs residential condominium surrounds residents and visitors with the magnificence of marble. The floors, walls, even the ceiling reflect the luxurious luster of this timeless material. And marble is as practical as it is beautiful—durable and easily-maintained. Marble. A shining example of creative design.

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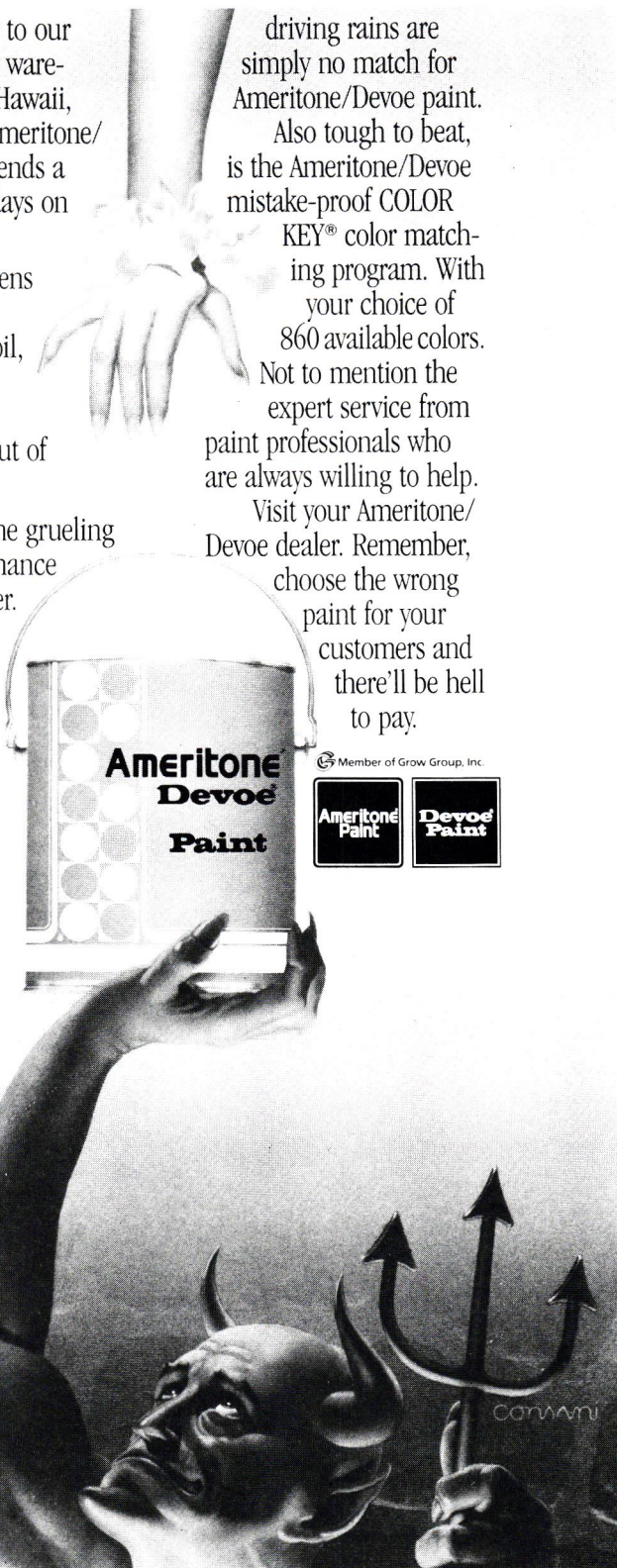
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certain atmosphere to enhance the work environment for the staff."

What was achieved is an image appropriate for a firm that creates some of the most luxurious resort destinations in the world. It is a place designed to inspire, lift the spirits and enrich the lives of those who work within. Grand public spaces convey the kind of relaxed elegance reminiscent of F. Scott Fitzgerald's novels.

On the second floor where corporate offices are located, a lobby with the ambience of a luxury hotel, art objects, artifacts, books and furnishings reflect a wide range of interests and achievements as well as a spirited zest for life.

An engaging mixture of forms, historical backgrounds and aesthetic traditions express the romantic imagination and creative mind of Chris Hemmeter.

"We feel good about this project because we were able to do a complete renovation and bring it to the sense of presence that it has. We would like to think that we have unveiled it and restored a sense of pride in this place," said Ma. "The marvel is in the sense of new life."

Elements of the design for restoration and enhancement of the building and grounds blend in gracious harmony. With its renewed classic profile, distinctive lobbies, elegant executive suites, spacious work areas and abundant artwork and floral arrangements throughout, the Hemmeter Corporation Building perpetuates the tradition of a place of hospitality in the beauty of its architecture and setting. **HA**

Peggy Kusano is director of communications with Hemmeter Design Group.

Opposite: Tile work on the floor and walls of the main entry lobby was fully restored. Photo by Ron Starr



Energizing the Department of Defense

by Franklin J. Wong, AIA

The Naval Facilities Engineering Command and American Institute of Architects biennially co-sponsor an awards program to recognize distinguished architectural achievement. The program was established to encourage professionalism and promote excellence in the architectural design of naval shore facilities.

This year's entries were accepted in several categories, with every entry also eligible for a special energy conservation award.

The 1988 winners included an

administrative office building, medical and dental clinic, reserve training center, hospital and bachelors' dining facility. Judging was done by a panel of AIA and NAVFAC employees.

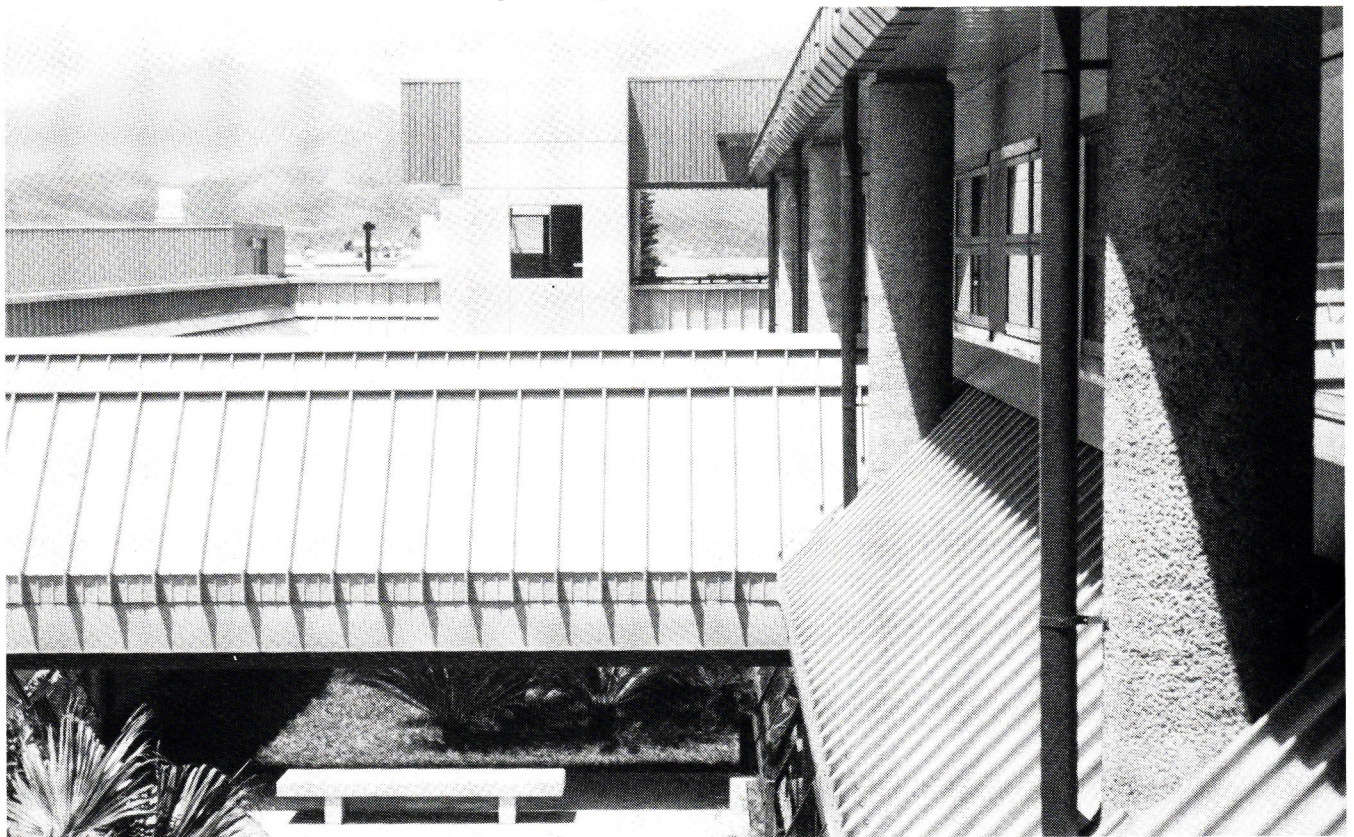
Capturing a merit award and the energy conservation award, the Medical and Dental Clinic at Kaneohe Marine Corps Air Station was designed by the joint venture of Franklin Wong and Associates, Limited and Bobrow/Thomas and Associates.

The scope of work for this project included design and engineering of a 48,000-square-

foot, state-of-the-art replacement medical/dental facility which provides outpatient services for active duty military personnel, dependents and retirees.

It consists of three U-shaped, one-story medical clinic modules and a two-story structure for the dental clinic, radiology department, pharmacy and lab. The four buildings are connected by covered, open-air walkways to take advantage of Hawaii's temperate climate.

The facility is located on a 7-acre site and designed around a landscaped central spine. User



This view from the second level of the Medical and Dental Clinic at Kaneohe Marine Corps Air Station shows expression of building forms and materials. Photo by Franklin Wong

requirements were carefully considered and four areas of health care were addressed: military sick call, family practice, aviation medicine and dentistry.

The natural slope of the site encouraged an organization of the primary clinic functions on two basic entry levels.

At the first level entry, military sick call, family practice, aviation medicine and ancillary functions are accessed. On the second level entry, the user has access to the dental facilities.

Material choices were initially conceived to be concrete and steel. However, final selections were driven by budgetary thresholds which were adjusted by congressional mandates and revised midstream during the design process.

The actual steel frame building is skinned with plaster walls and high-ribbed aluminum roofs. Floor slabs, columns and stair/elevator towers consist of poured in-place concrete.

To handle all tropical storm conditions, large copper gutters and downspouts were provided. A series of metal gates and grilles tie the four buildings together, while addressing issues of security.

A comprehensive interior design package was developed for the facility. The basic breakdown of individual spaces relates to the Standard Naval Medical Plates established for NAVFAC by Bobrow/Thomas. The basic interior furniture package is a co-management between Herman-Miller modular furniture/lab systems in the office and exam rooms and traditional furniture in individual lobbies and waiting areas.

Concrete benches and outdoor furniture are provided in the exterior court. The artwork package comprises historic sepia-tone photos of "old Hawaii" from Bishop Museum.

Last but not least, state-of-the-art medical and dental equipment was specified for the performance

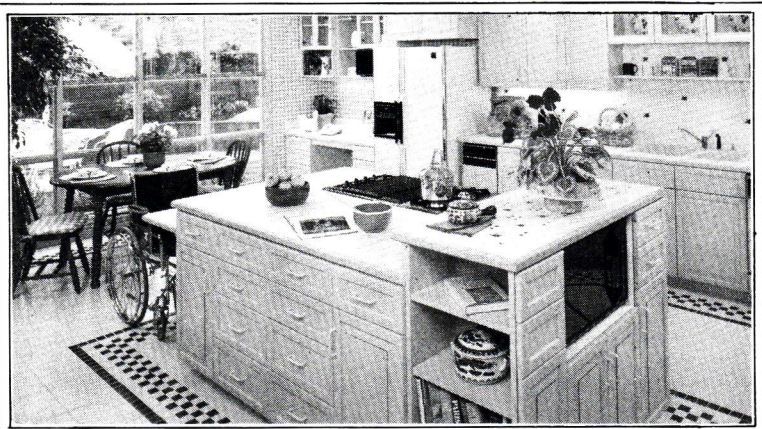


Major circulation is articulated by covered, open-air walkways adjacent to the central spine. Photo by Franklin Wong



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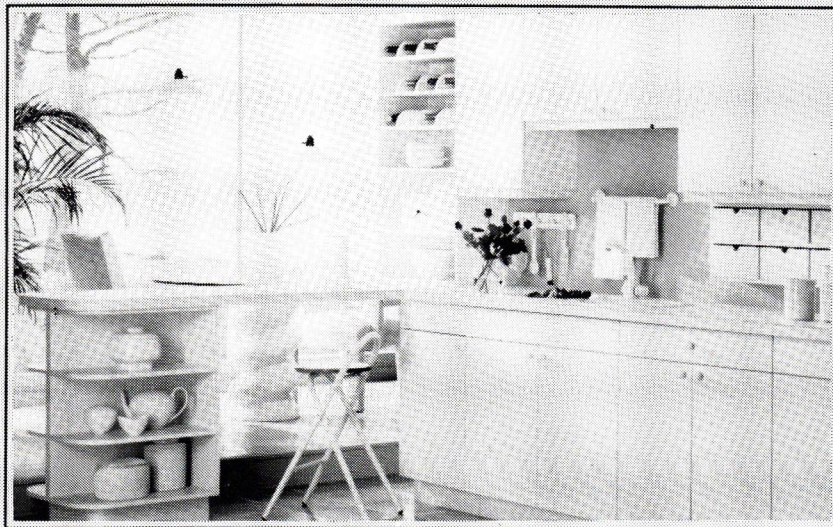
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Diamond Cabinets has introduced a brand-new International Line of wood-doweled "NO FACE FRAME" constructed cabinets. The International Line is based on the European 32mm system. Available in three interchangeable door styles: Coronet, Clarion and Avanti.

Pictured here is the Coronet style, all in white and designed for contemporary decorating ideas.



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of technical functions.

During the concept design stages, an energy theme was established. Numerous energy issues were discussed and a basic outline was adopted. It included:

- A natural ventilation backup.
- Waste-heat recovery.
- Wind generation.
- Energy management control systems.
- The new Department of Defense energy code.

Due to Hawaii's unique temperate, tropical environment, natural ventilation appeared to be a reasonable approach. Constant winds from the north/northeast direction flow over the site.

Our research basis included an overview of the "natural ventilation finger plans" prevalent in hospital design in the South Pacific during the Eisenhower administration of the 1950s, as well as references to Japanese architecture.

A preliminary scale model of site and facility was tested at the University of Southern California wind tunnel for building air responses.

Subsequent to that test, a second, more refined model was tested in Carmel at John Raggart's wind tunnel with specific probes placed within individual cells to test for individual room flushing rates. The laboratory tests essentially validated our design.

Although our natural ventilation design showed good promise for success, it was decided that a state-of-the-art medical facility should be air-conditioned to avoid any potential personal hygiene problems. Hence, natural ventilation was adopted as a backup system.

To take advantage of a by-product of the air-conditioning system, a waste-heat recovery system was introduced to supply all essential hot water needs during normal operating hours.

A 60Hz wind generator was

strategically placed in the northeast quadrant of the site as a demonstration project to be driven by available trade winds. Historical data on wind velocities from the airfield was analyzed for the wind generator and natural ventilation designs.

The design goal was to generate sufficient levels of electricity to power the night lighting circuit. An additional benefit includes "pushing the meter back" with surplus electricity produced when the facility is not in operation.

An energy management control system was implemented to automatically control various electrical circuits during a 24-hour period.

Although installing heat-sensitive switches to operate individual lighting functions was discussed, they did not appear to be cost effective in the final analysis.

Finally, the project was tasked with meeting the new federal energy code for Department of Defense projects. Essentially, this restricted overall energy consumption to 75 percent of previous design codes.

To conform to the new codes, we specified state-of-the-art light fixtures for the bulk of the necessary tasks. Not to oversimplify the matter, special use areas such as the prosthetics lab still required additional fill-in, color-corrected bench lighting.

Having dealt with these design issues and many others, we are pleased to report the Medical and Dental Clinic project was showcased in an energy exhibit at the Smithsonian Institute in Washington, D.C.

As the only architectural project featured, it represented an innovative and technological solution to an ever-present energy problem.

In conclusion, we would like to acknowledge the Naval Medical Command, Washington, D.C.; Naval Medical Command, Pacific Region; NAVFACENGCOM Headquarters, Virginia; NAVFACENGCOM, PACDIV, EFD; OICC, MIDPAC; and ROICC, Kaneohe for their tremendous contribution and participation on this project.

The Franklin Wong and Associates, Limited and Bobrow/Thomas and Associates joint venture is proud to have played a key design role in making the Medical and Dental Clinic at Kaneohe Marine Corps Air Station a successful and distinguished architectural project. **HA**

Franklin J. Wong is president and founder of Franklin Wong and Associates, Limited, an architecture, planning and interior design firm located in Grosvenor Center, downtown Honolulu.



Exterior court waiting lobbies are surrounded by extensive landscaping. Photo by David Franzen

Creating a Tasteful First Impression

by David K.Y. Chung, AIA

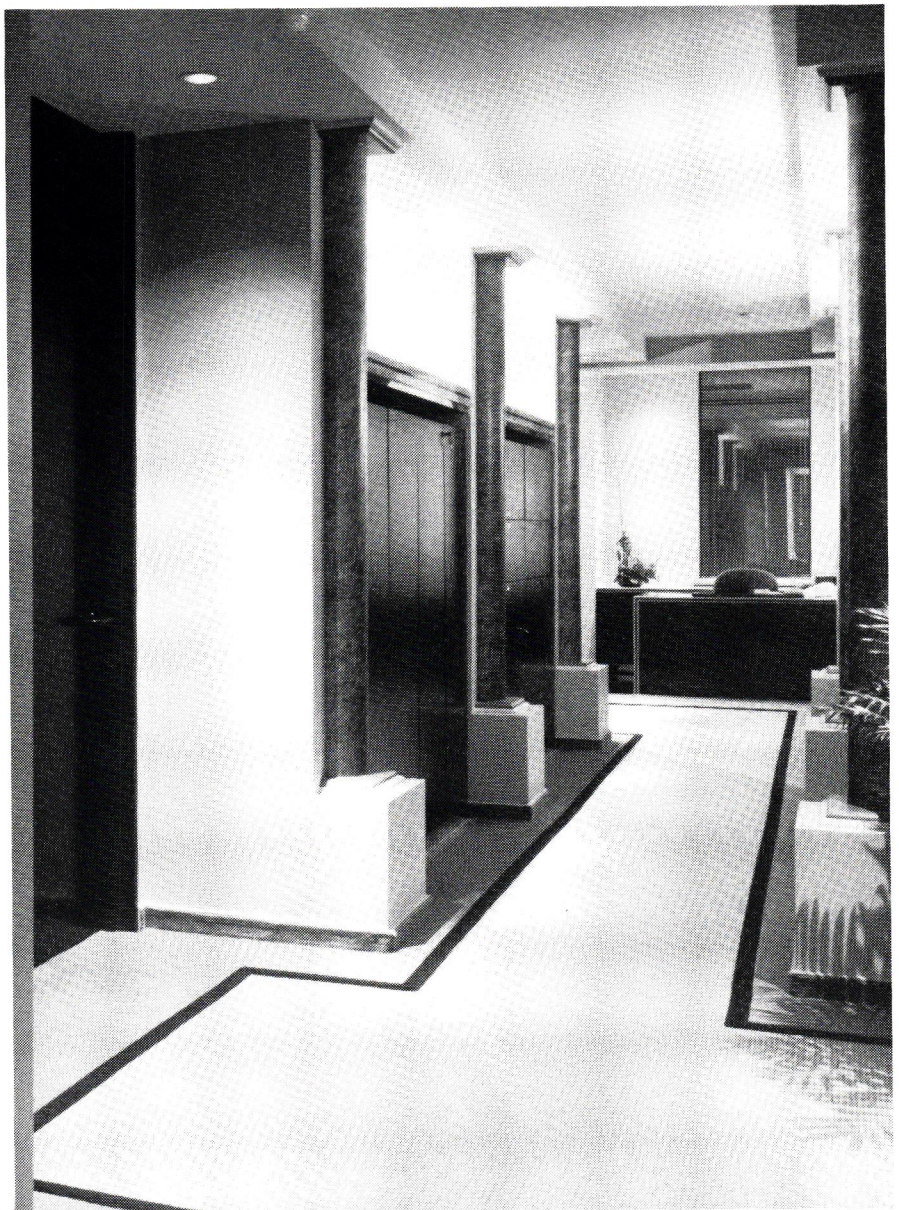
When you hear of a development proposed by Jack Myers, you can assume it will be a quality project before you even see it. There has been a pattern established by earlier projects — distinctive, top of the line, first class.

When The Myers Corporation was in need of additional office space to accommodate its growing staff, a decision was made to move from Waikiki to new corporate headquarters in downtown Honolulu.

A reflection of the projects they develop, these offices had to project a special image. The new office design, a 1988 HS/AIA Design Award winner for the Gulstrom Kosko Group, had to present to the first-time visitor that all-important first impression — one of quality, taste and permanence.

It has been said you need a good client to end up with a good project. A client with excellence as a signature can achieve that intangible quality by demanding the best from his design consultants without prescribing the design itself.

A good client also is knowledgeable about the design process and open to innovation and the latest in product technology. Exceptional projects often are the result of a constant dialogue between client and designer, where the client



Storage and filing cabinets are built in along the mauka corridor of The Myers Corporation offices, a 1988 HS/AIA Design Award winner for the Gulstrom Kosko Group. Photo by David Franzen

carefully reviews each proposal by the designer and they work together toward that definitive solution.

The successful project must have three primary elements: concept, plan and detail.

Concept

The parameters were established from the beginning. This was to be a high quality, spacious working environment for an existing staff of five, however, future projects would require 12 or more employees.

The character desired was contemporary, but not avant garde. The color palette envisioned was shades of black and stainless steel rather than warm woods and polished brass.

While concern for quality finishes was a primary goal, budget was a consideration. The project was put out to bid to four contractors. For a number of reasons, Darcey Builders was selected, even though they were not the low bidder.

Plan

Fortunately, the available space permitted Mike Kosko and Bill Gulstrom to plan a reception area on axis with the elevator lobby.

Obtaining additional adjacent space required relocation of some existing offices at Myers' expense. This relocation permitted additional offices for support staff and provided some balance to the plan on the other side of the reception area.

The resulting plan allowed for two points of arrival — one at the reception desk, and another through a vaulted area arriving at what we called the "Great Hall." This octagonal space was seen like a rotunda space leading to other spaces.

A domed ceiling was built utilizing maximum rise allowed by the floor structure above. The dome turned out to be rather flat, and the angle of incidence from the perimeter neon lighting caused every imperfection in the ceiling finish to be highlighted,

resulting in extra work.

However, even with the added difficulties, the area turned out to be the highlight of the office.

Detail

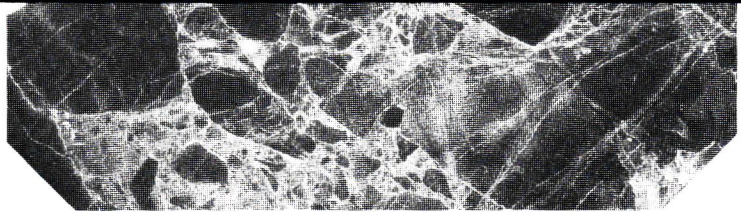
The amount of detail in a project is largely controlled by budgetary constraints.

On this project, Kosko was able to work closely with Greg Guildersleve, shop superintendent at Darcey Builders, who made up samples of

various inlay patterns for the Avonite desktops.

The inlay color matched the burgundy of the nylon lever handles on the door and the accent border of the custom carved carpets. Burgundy colored occasional chairs are covered in goatskin leather.

Detail also is evident in the custom conference table and credenza with black granite inlay. The conference table features a

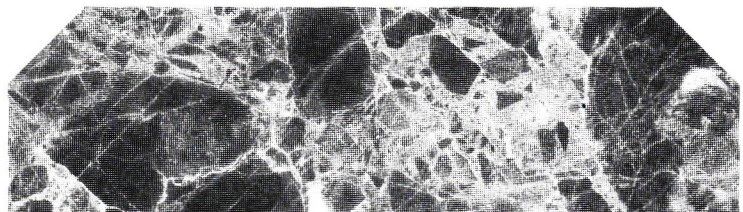


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It has been said you need a good client to end up with a good project.
A client with excellence as a signature can achieve that . . .
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black rolled leather edge with burgundy piping.

The credenza has similar details with a remote-controlled lift

mechanism revealing a television and VCR. These two pieces were probably one of the swan songs for Meder-Hill, two craftsmen

now working in other venues.

Also noteworthy are the painted ceiling and *faux* column effects created by Sharon Hawkins and Sharman Miller.

An additional feeling of height was created in the dome and vaults by feathering and lightening the iridescent paint as the ceiling rose, visually enhancing the sense of volume. The list of people who contributed specialty items could go on and on.

The final ingredient for a successful project is a good contractor. Hal Darcey is familiar with the quality Myers expects in his projects and has the equipment and manpower to do projects requiring critical detail.

One practice he advocates is to have the people who made up the cabinet work participate in the installation, accounting for closer tolerances and better fit in cabinet doors and preservation of higher quality finishes obtainable under shop conditions.

There are so many elements involved in any project that it seems Murphy's Law can take over any time. As for the Design Award, the owner and contractor also get an award. It is only proper and fitting they receive recognition for their role in the project.

While the key players are recognized, everyone involved — from the draftsman to drywall taper and painter — should take some credit for their efforts and contributions to this project. **HA**



Opposite: The elevator lobby was renovated to coordinate with the new reception area. Above: A vaulted ceiling and neon-lit soffits enhance the work and filing areas. Photos by David Franzen

David K.Y. Chung, principal in the Gulstrom Kosko Group, a firm offering services in architecture and interior design, was project architect for The Myers Corporation renovation.

The Superiority of Digital Data Exchange

by Jon Toda, AIA

Architects who are on line with CAD (computer-aided design) are finding opportunities to work more efficiently by exchanging data via digital format.

There are several reasons digital transfer is superior to the traditional transfer of information.

Digital data exchange shortens production time by eliminating duplication of efforts and

speeding up transfer of information between members of the design team.

This also makes joint ventures between mainland and interisland firms more feasible and increases production and the number of jobs architects are able to accept.

Overall, the quality of services rendered to clients improves not only through speed but also through enhanced accuracy and clearer drawings.

Digital Data Exchange

Although digital data exchange has been around for decades, widespread use by architects began less than five years ago.

The availability of high quality CAD and affordability of personal computers make it possible for architects to make the transfer from analog (manual drafting) to digital (CAD) methods.

Exchanging data with various



The latest in graphics communications is a product that takes the output from any program that supports PostScript and translates it into a fax format file. The file can then be transmitted by the appropriate product to any fax machine, resulting in a fax transmission that looks as if it were printed on a 200-dots-per-inch printer.

parties, such as consultants, works in two basic ways. The first and most obvious is by floppy disk.

Drawings done on CAD are stored in digital format on a disk. When working on a project with other consultants who also are using CAD, disks are merely exchanged at different stages of design. Floor plans, site plans and, of course, changes, can be sent back and forth rapidly as the project progresses.

The second method, which is increasing in popularity, is by modem. The modem goes one step further than disk exchange by transferring all data directly through phone lines. This eliminates having to mail disks to off-island parties.

Based on Maui, Gima, Yoshimori & Associates, AIA, Inc., is constantly exchanging information with firms on Oahu and occasionally with mainland groups as well.

The advantages of digital data exchange are obvious, especially when compared with traditional methods. It eliminates much of the tracing, redrawing, mailing of rolls of drawings and overnight couriers that are all part of the standard process.

Whether interisland or interstate, data exchange by disk or modem speeds up design time. At times, it also can expedite an overall schedule by helping architects complete a set of drawings faster. At other times, given the same schedule, we can do more thorough interdisciplinary checking.

The Fax Connection

Another benefit of having drawing information in digital format is that it enables clearer drawing transmission via fax. Although not all consultants or clients have computers with which they can receive digital information, almost all now have fax machines.

Gima, Yoshimori has capitalized on this fact by

installing an accessory called CAD fax, an expansion card that fits into a personal computer and is hooked up to a phone line.

CAD fax is superior to regular faxing because it allows a drawing to be sent in digital format.

Because a regular fax machine is actually a scanner and printer, it must first scan the drawing or text, convert the image into a raster image, or series of "dots,"

and then into digital format.

However, because scanning is not perfect, some information is lost in the process. Thus, at the receiving end, the fax may print out a copy with blurred or disconnected lines that give drawings an incomplete, rough look

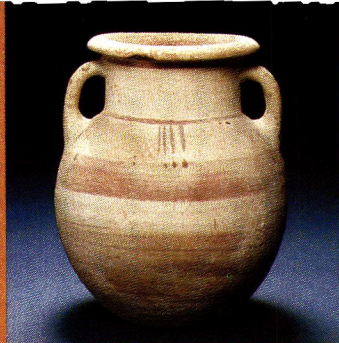
CAD fax works differently. It takes the computer data base and converts the description directly

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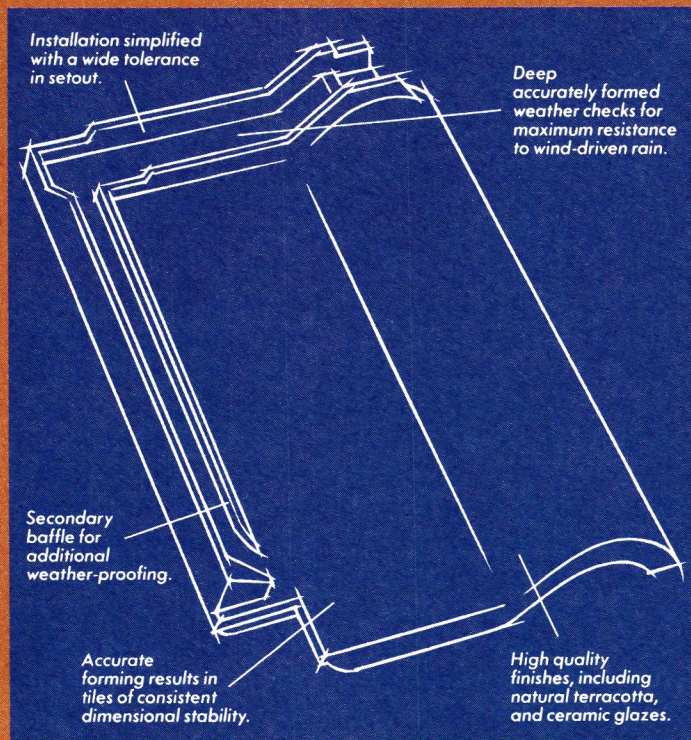
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into a raster image, bypassing the scanning. What comes out is a clean, clear image similar to the output from a laser printer.

Clients see a sharp drawing rather than a fuzzy rendering. This is important because at the speed many projects move, all a distant client may see during a critical design stage is a series of faxes.

CAD fax allows drawings of any size to be sent. It automatically divides a drawing to be sent in 8½-inch strips which can be taped together on the receiving end. For example, a 24-inch by 36-inch drawing would be outputted as three 36-inch strips.

Another advantage of CAD fax is that information can be faxed directly from a computer.

If a memo must be sent to several consultants it can be typed on a word processing program. Then the fax program can be instructed to send the note to the individuals. The computer will call the first consultant and fax the memo, then go on to the next consultant, and so on.

No one has to stand at a fax machine to make calls and wait while it feeds paper. This allows information to be faxed straight from a phone line without tying up the fax line and machine. For an especially busy office, this eliminates the need for a second fax machine.

Costs and Cautions

When CAD is already set up, the modem and fax card are inexpensive additions. Adding a data exchange modem would cost between \$200 and \$400. CAD fax hardware and software are approximately \$1,000 for sending drawings, about half that just for text.

Unless someone in the firm has computer expertise, it is best to work with a computer consultant or vendor to make sure all hardware and software are compatible and there is support during the learning or adjustment period of integrating new

equipment.

Can we go even further with this concept of fast, accurate transmission of data? In the future, it is likely we will all be connected by phone. We also may exchange information significantly quicker, and we might even do it in color.

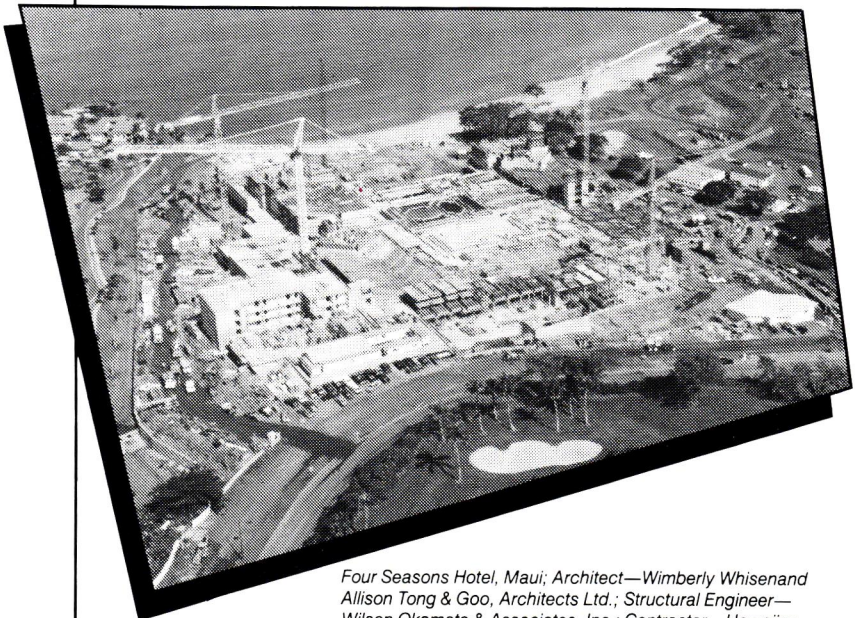
The bottom line for using technology is that architects gain, rather than lose, time, and improve services to clients. An

added benefit is greater job enjoyment.

By using innovative computer methods, we can cut down on the time that ordinarily goes into the drudgery of paperwork and free it up for designing and creating architecture. **HA**

Jon Toda, a senior associate and CAD manager of Gima, Yoshimori & Associates, AIA, Inc., teaches AutoCAD at Maui Community College.

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Cellular Telephones: From Novelties to Necessities

by Michael Linos

We haven't quite reached the caliber of Dick Tracy's two-way wrist radio, but with the advent of cellular technology, the world is definitely a step closer. Cellular telephones provide portable communications capabilities that are changing the face of business as it exists today.

Five years since their introduction nationally, cellular telephones are moving from high-priced novelties to business necessities. Once considered simply a rich man's toy or prestige item for the high-powered corporate executive, cellular telephones have moved into the mainstream of business.

People who get into cellular wonder how they ever did business without it.

Cellular telephones enable architects and contractors to maintain contact with clients, suppliers and their offices while at a job site, eliminating the annoying game of telephone tag. Vital information is at their fingertips in seconds.

Cellular technology involves the transmission of calls via radio waves rather than telephone wires.

On Oahu the mountainous terrain of the Koolaus required Honolulu Cellular Telephone Company to strategically install 14 transmitting sites throughout the island.

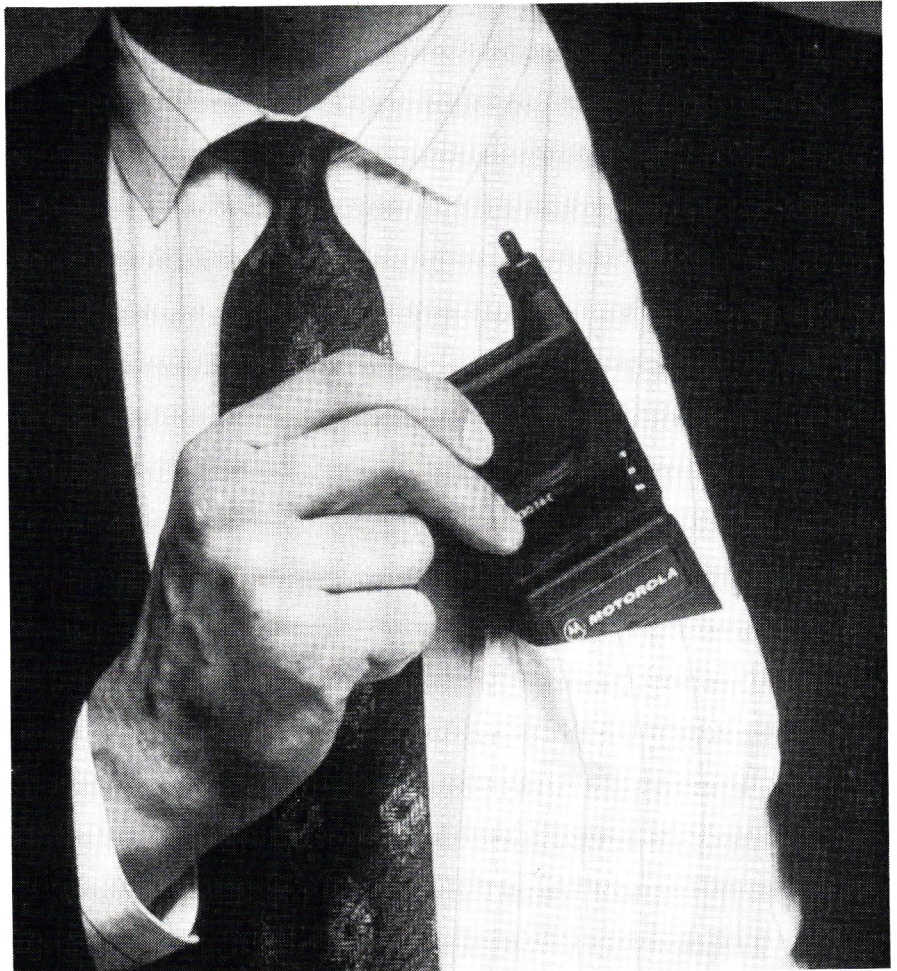
Accordingly, customers islandwide are assured of a prompt connection

and a telephone conversation equal in quality to home and office telephones.

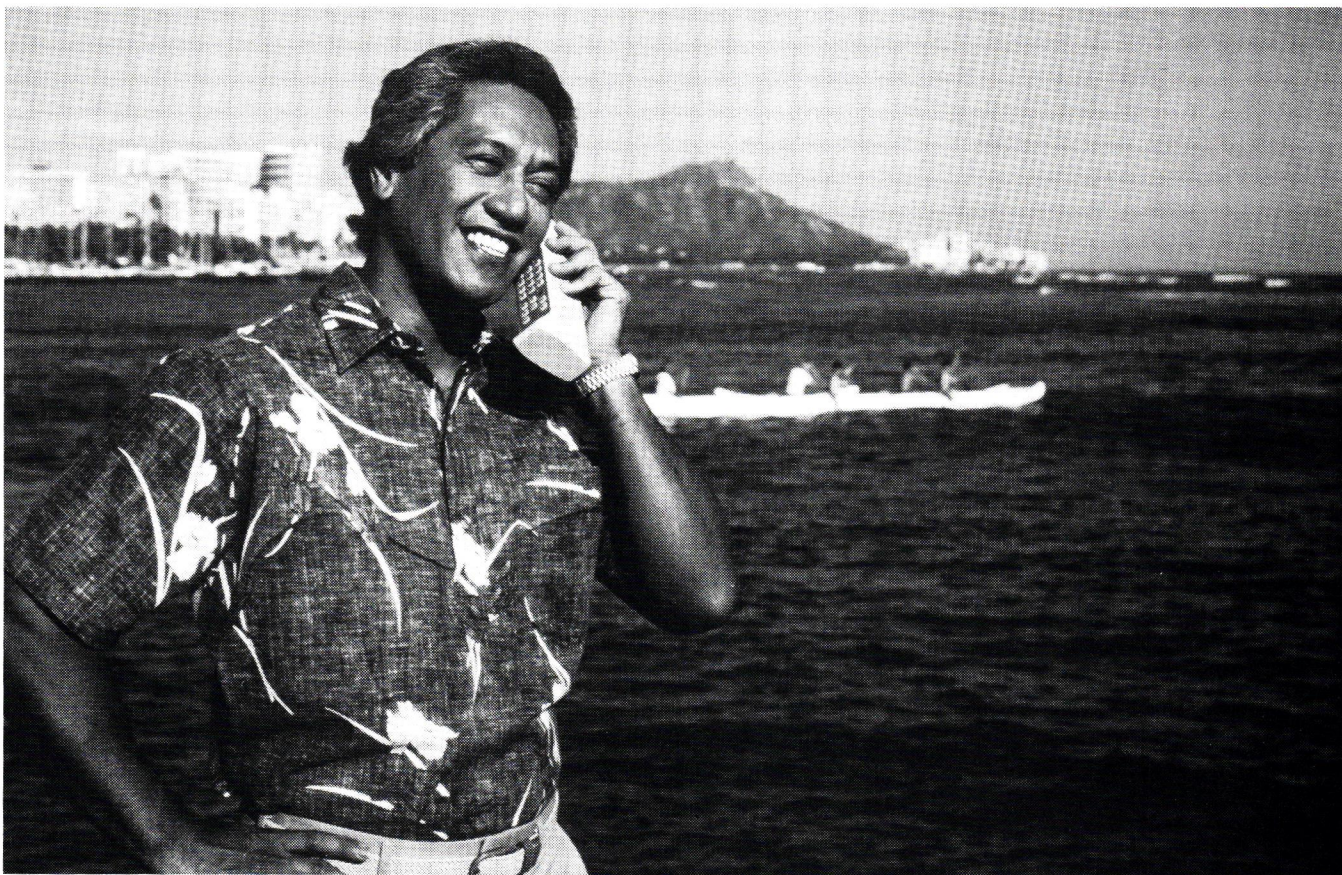
There are three basic types of cellular telephones: car, transportable and portable. Each offers the convenient features and service options of a regular business phone including direct local and long-distance dialing,

call forwarding, call conferencing and memory dialing.

Car telephones, now being offered as an option in some new cars, are powered by a car battery, allowing users to turn traffic jams and long commutes into productive office time. Car phones are equipped with numerous features including



The latest in cellular technology is Motorola's Micro Tac Personal Telephone, a 10-ounce cellular phone small enough to fit inside a shirt pocket.



The superior quality of cellular transmission in Honolulu has made lightweight portable phones the preferred choice among local users. Photo courtesy of Honolulu Cellular Telephone Company.

hands-free, voice activation and speaker phones.

Transportable phones come with a large rechargeable battery pack and, although cumbersome, are perfect for individuals whose jobs require constant communication from the field.

Lower powered, battery operated portable phones are lightweight, versatile and small enough to carry in a purse or briefcase. In Honolulu, the superior quality of cellular transmission has made portable phones a preferred choice among users.

Increased popularity and use of cellular telephones, coupled with competition between carriers, have helped create a cost reduction.

Five years ago, the average car telephone cost at least \$3,500. Today a vastly improved model is available for about \$1,000, including installation. Portable models also retail for about \$1,000.

(continued)

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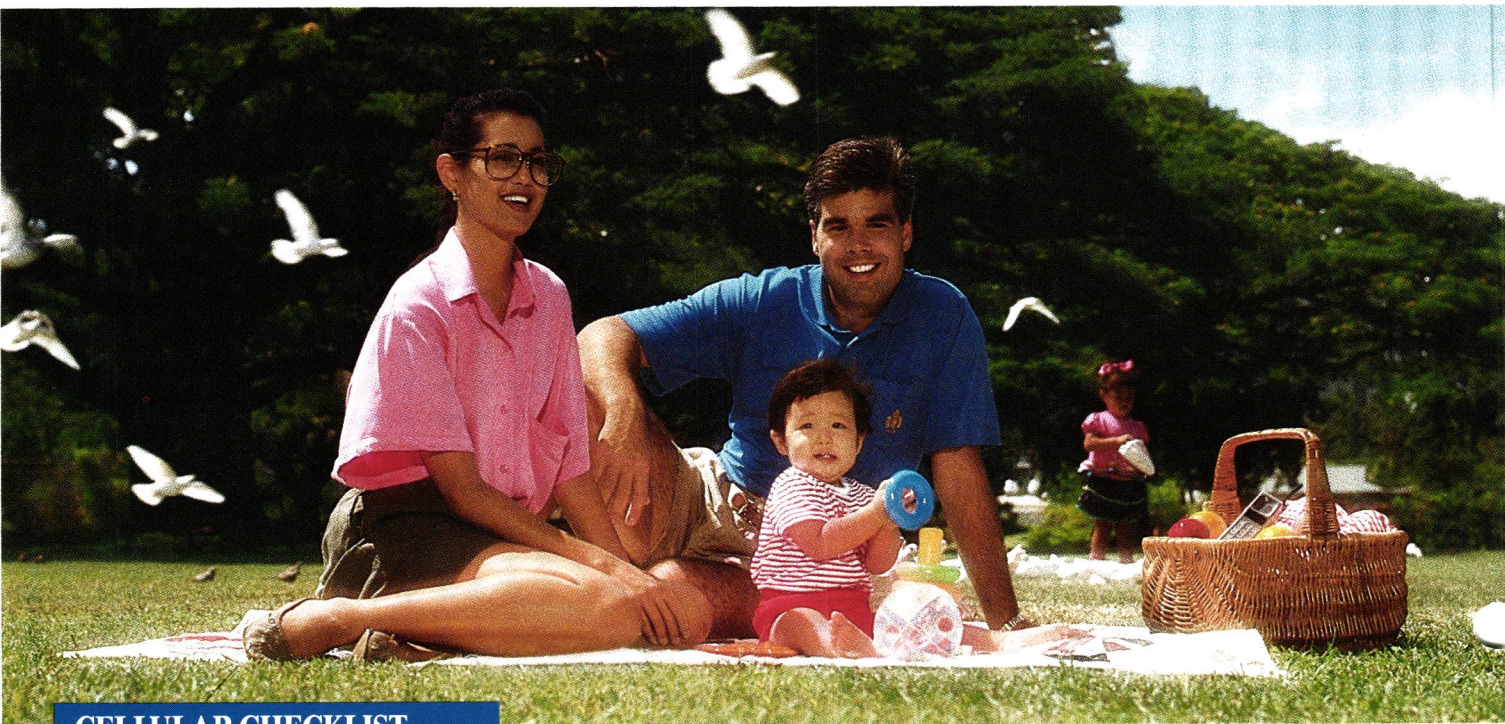
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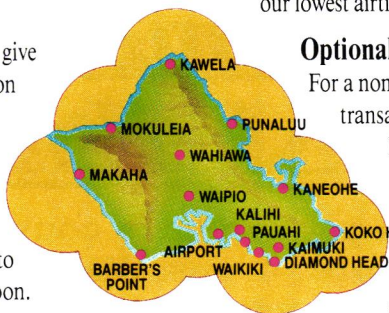
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Future prospects for the mobile executive are fascinating. Armed with a cellular telephone, businessmen and women have the capabilities of a "mobile office" at their disposal.

The 65-mile-an-hour freeway fax has arrived. Compact, portable facsimile machines, many weighing less than 10 pounds, can be hooked up to a car phone. Even if an individual is out of the car, the machine can continuously receive documents. This application is proving especially useful for architects.

By adding a modem to a car phone, users can transmit data from a lap-top computer to a central computer system. A device to watch for in the future is an "ultracompact" combination fax and modem about the size of a pack of cigarettes.

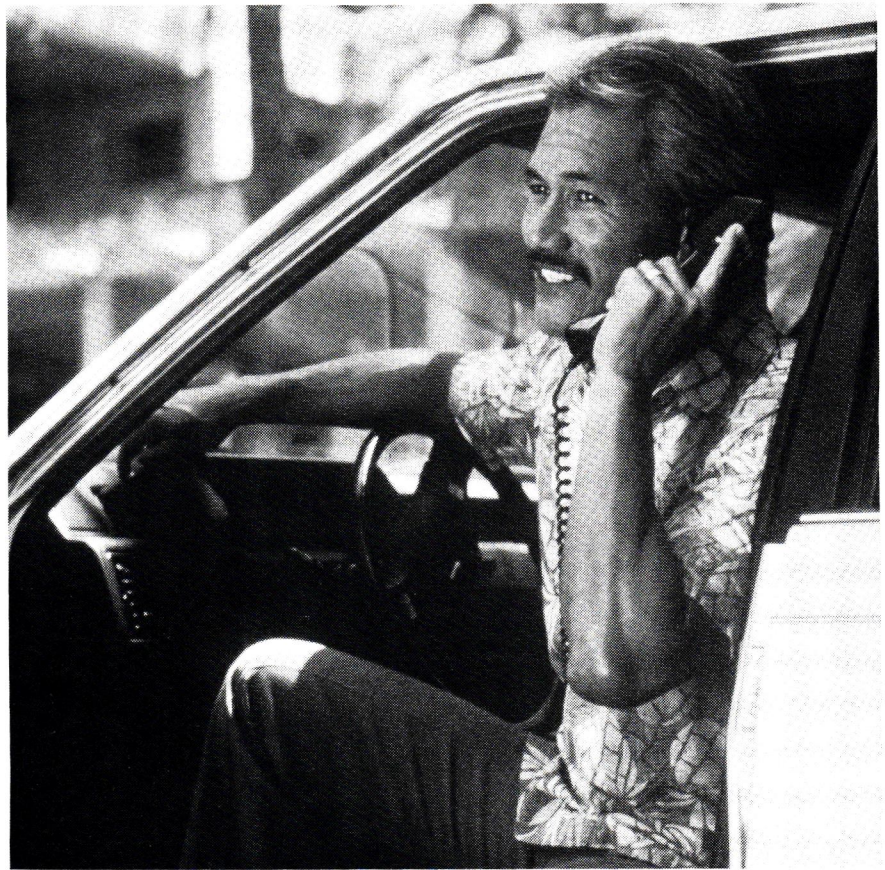
Other fascinating innovations include smaller and lighter portable telephones.

Motorola recently introduced a new 10-ounce Micro Tac Personal Telephone that fits inside a pocket or small purse. It works on a 30-minute rechargeable battery. For 2 ounces more, a "bigger" version has a 75-minute battery.

In Hawaii, transmitters are currently being installed on neighbor islands allowing Oahu users the capability of statewide cellular communications.

Transmitters on Kauai were scheduled to be available for use by the end of August, with Maui and the Big Island receiving cellular service by mid-1990. **HA**

Michael Linos is vice president of marketing at Honolulu Cellular Telephone Company.



Now being installed as an option in some new cars, cellular car telephones are powered by a car battery, allowing users to turn traffic jams into productive office time. Photo courtesy of Honolulu Cellular Telephone Company

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Looking for 'the Best' CAD System?

by Thomas Fisher

In discussions with architects about their newly acquired or planned CAD (computer-aided design) system, one occasionally hears they have purchased "the best" system available. If nothing else, there is no "best" system in the price ranges usually considered by small to mid-sized architectural firms.

What there are, are a series of trade-offs to be judiciously weighed in terms of a firm's unique needs. "The best" one can do is outline what criteria of performance for cost best suits a particular office style.

These criteria can be briefly discussed as six issues against which an office considering CAD can compare. They are:

- Whether the tendency to go CAD is even appropriate for a

particular firm or management style.

- The combined capacity of a system to network and/or multitask.
- Memory strengths or limitations of a system.
- Speed of the system operating on complex drawings.
- Interface and ease of use presented to the user.
- Capabilities of CAD software to be used.

In the following discussion of these issues, the intent is to give an objective, if cursory assessment of what is now the CAD "landscape" as it might interest the small to mid-sized architectural practice.

Going CAD? Hold on.

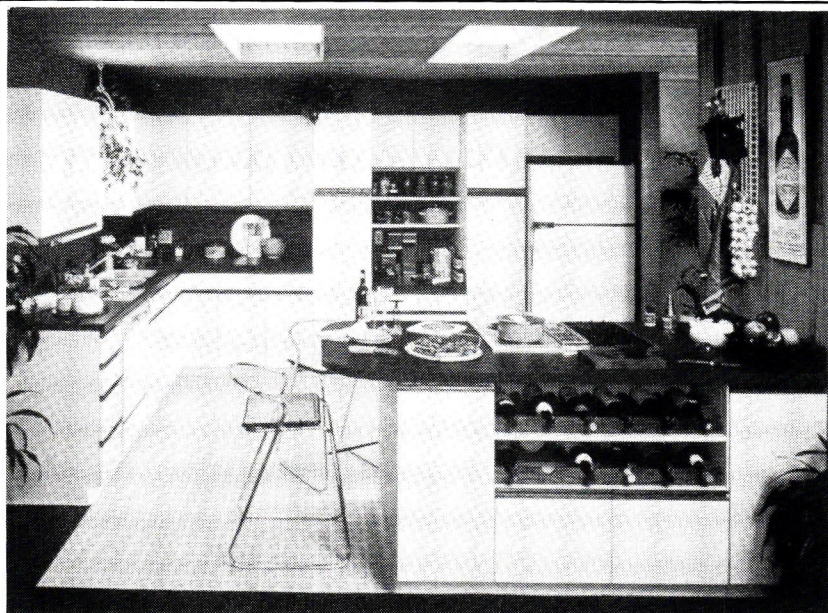
"You must be in a position to compete in tomorrow's world,"

"Boost your office productivity by 70 percent," "Improve your marketing image," etc. The media is full of hype about the necessity of CAD.

There also are a lot of architects with closets full of computer equipment and unrealized expectations. For an office with an array of varied and unique projects, the promise of improved productivity and efficiency is probably about 75 percent myth and 25 percent realistic potential.

Acquisition of the system poses one financial burden. Principals and staff learning to use the system is another one.

Depending on how the system is managed and what users' attitudes are toward it will determine whether it becomes an albatross or an integrated, fully



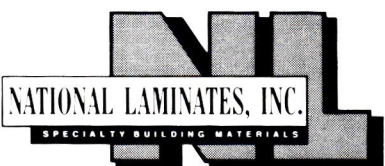
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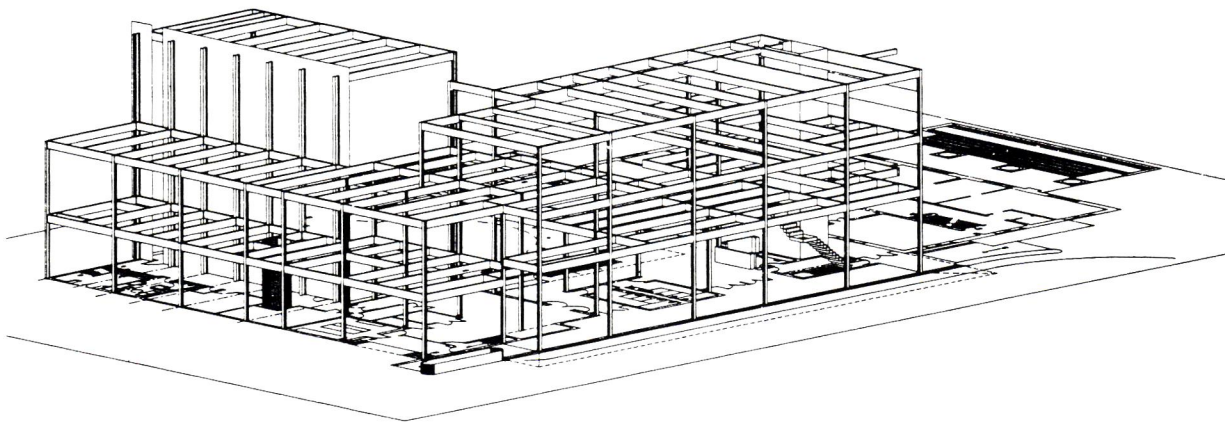
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Wire frame images allow architects and clients to quickly visualize multiple views of a project. However, removing hidden lines from a complex drawing can be time-consuming. Drawing courtesy of HONCAD

utilized and expanding tool to a firm.

The best candidates for success seem to be firms in which a principal will take an active role in the system's use, master the complexity of CAD software and direct, manage and require its use with the real world problems of design and construction document production.

Where the time to learn comes from is a real problem. An alternative is to encourage several associates to make it work, but the temptation to revert back to a majority of hand-drafted sheets will be considerable and the "CAD habit" won't develop.

Granted an intention to purchase some degree of CAD capability, the next several issues are current hot topics.

Multitasking and networking

The ability of a personal computer (or micro) to perform more than one task at a time is one of the emerging "must haves."

How easily does a particular system run computing chores simultaneously? How easy is it to transfer files between independent stations? Can one easily manage peripheral access, plot cueing, sharing of printers, etc.?

There are a lot of promises for the future capability of particular operating systems. Of all the prominent options, however, only

UNIX, or its derivatives, has it in full measure. UNIX is a cryptic beast unless you go with something like Sun and buy an interface friendlier to it.

The more stations anticipated, the more important this issue becomes. Multitasking facilitates networking. Without it, an expensive server or extra computer is required.

Memories

Most people currently using a disk operating system (DOS) will attest to the array of strategies needed to address more memory. Hardware capacities of current generations of 32 bit processors make memory address requirements of the present or near future expressed in megabytes, rather

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than kilobytes.

While the vast majority of applications use DOS, we are entering a transition period in which new applications will be written for one of several high capacity operating systems such as UNIX, OS-2, System 7 (Apple) and perhaps others from the mini and mainframe world.

This makes choice of software and its memory requirements a key determinant in choosing the operating system and hardware configuration.

Speed

Speed as an issue is now dominated by the current generation of 25 megahertz, 386-based machines. These machines with graphics accelerators now scream in seconds through CAD operations that recently, or currently, warranted a coffee break.

At issue here is productivity of a facile user spending significant

amounts of time (more than 30 hours a week) on large and complex drawing files.

It will gain importance in two areas — to the dedicated CAD operator/draftsperson and in the generation of 3-D graphics.

Speed, while important, will be less of an issue to an architect who will use the computer for a variety of tasks. This relates to the fifth issue.

How it all looks and works

Interface is the buzzword. At issue is a system's ease of use, anticipation of an intuitive user response and easily understood graphic organization. At stake is a perception of the computer as comprehensible only to a resident guru.

Undoubtedly, Macintosh comes to mind, and it is true Apple does indeed have the most highly integrated and friendly user interface currently available.

Others, such as Sun, are now

competing with the Mac, and there is a developing industry standard interface called Motif. However, they are far from reaching the level of craft and sheer numbers of integrated applications that Apple commands.

The trade-off is in speed. Most CAD applications will run faster on other platforms or computer systems than on Macintosh systems.

Independent research published by Apple shows significant statistics comparing Mac to DOS users in terms of number of different applications used, speed of learning time, productivity and even "personal fulfillment." Not surprisingly, Mac wins.

The point is that any system now or in the near future can be expected to be relatively easy and fun to use. Some are currently better than others. What to consider is how a system will be used.



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If used by a CAD operator sweating to achieve deadlines, go for speed.

If used by an architect who must simultaneously shift a building on a site, fax a detail to a consultant, examine a project cost overrun and make a date for lunch, ease of use is more important.

Software

When comparing CAD software options, it is difficult to find objective assessments. Everyone swears by what is familiar, and nobody knows all of them.

Most major CAD packages are basically similar, differing only in interface and minor features. Attribute definition and 3-D capabilities are exceptions, but will you use them?

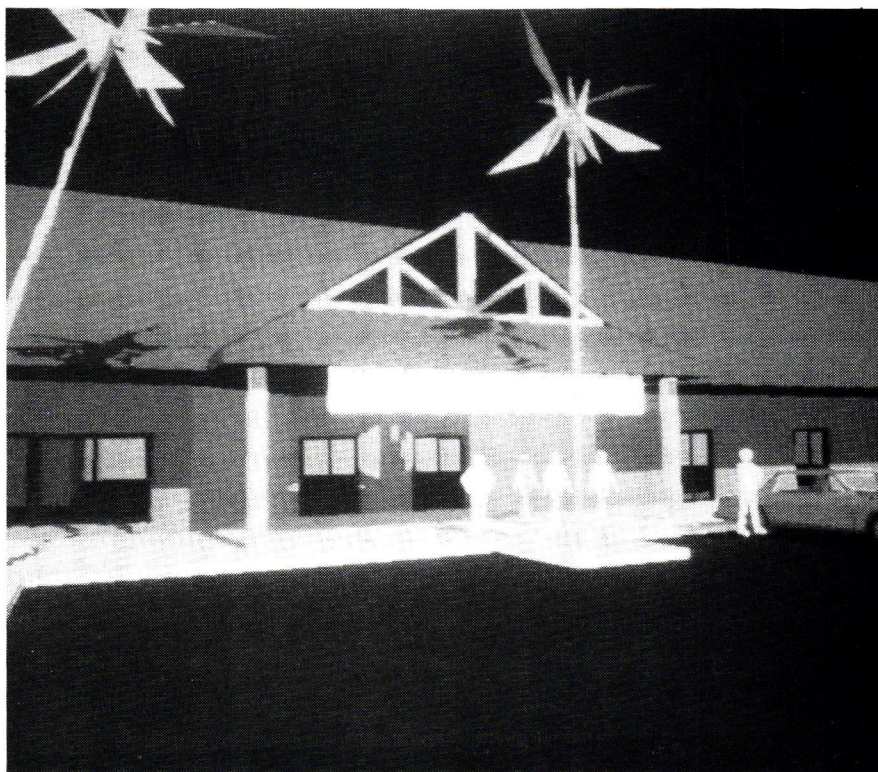
AutoCad is most popular, not because it is "the best," but because it got out in front first and stayed there. But it still takes a while to learn.

There are simpler, less expensive options, and other packages such as Arris or Integraph have superior 3-D and layering capabilities. However, 65 percent or more of CAD users looking for a new job will know AutoCad, and the third party support is the most extensive.

There are other issues. Choice of vendor is one. Prospects for third party enhancements, accelerators and training are others. But, to belabor the point, there is no "best" system that has everything for the small to midsized office.

"The best" one can do is grasp what strengths and weaknesses a system, and CAD in general, will reveal before it is brought through the door. **HA**

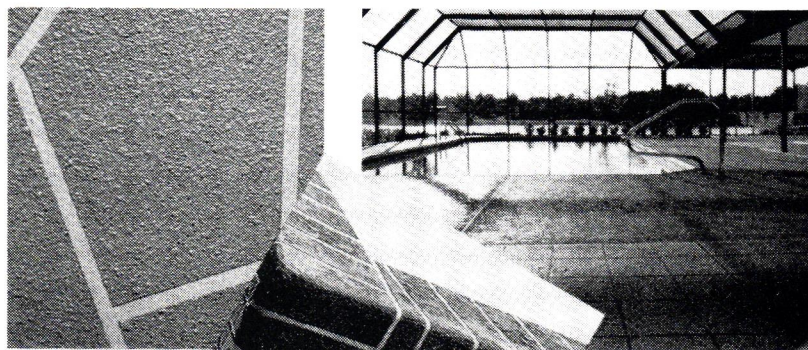
Thomas Fisher, who holds a master's degree in architecture, has certification as a computer programmer and experience on a variety of CAD systems. He is an architectural project manager with Philip K. White Associates.



Some CAD packages offer advanced 3-D features. While powerful as a marketing tool, and exciting for design studies, they are complex to learn, time-consuming to generate and have little to do with CAD's overwhelming strength in production. Market research indicates that 3-D capability is a high priority to purchasing architects, but a much lower one a month or more into actual use. Photo courtesy of CDS International

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Maui HS/AIA Awards Scholarships to Two Architecture Students

Two Maui students have been selected to each receive a \$500 scholarship from the Maui section of HS/AIA.

Randy Badua Tamayo and **Shelley Anne Fujikane** were presented their awards by Stanley S. Gima, Maui AIA president, and Hans Riecke, vice president and president-elect.

Originally from Lahaina, Tamayo is a 1986 graduate of Lahainaluna High School. He is currently enrolled in the School of Architecture at the University of Hawaii. UH professor Joyce Noe nominated Tamayo for the scholarship.

Fujikane, a native of Kahului and 1989 graduate of Baldwin High School, has been accepted to

the UH School of Architecture. She will begin studies in the fall.

Fujikane was nominated by Stanley Yamato, industrial arts teacher at Baldwin High.

Scholarship recipients were selected by a committee headed

by Alvin Yoshimori of Gima, Yoshimori & Associates, AIA, Inc. Criteria included scholastic ability and achievement.

This is the fourth year the scholarships have been awarded by the Maui HS/AIA.

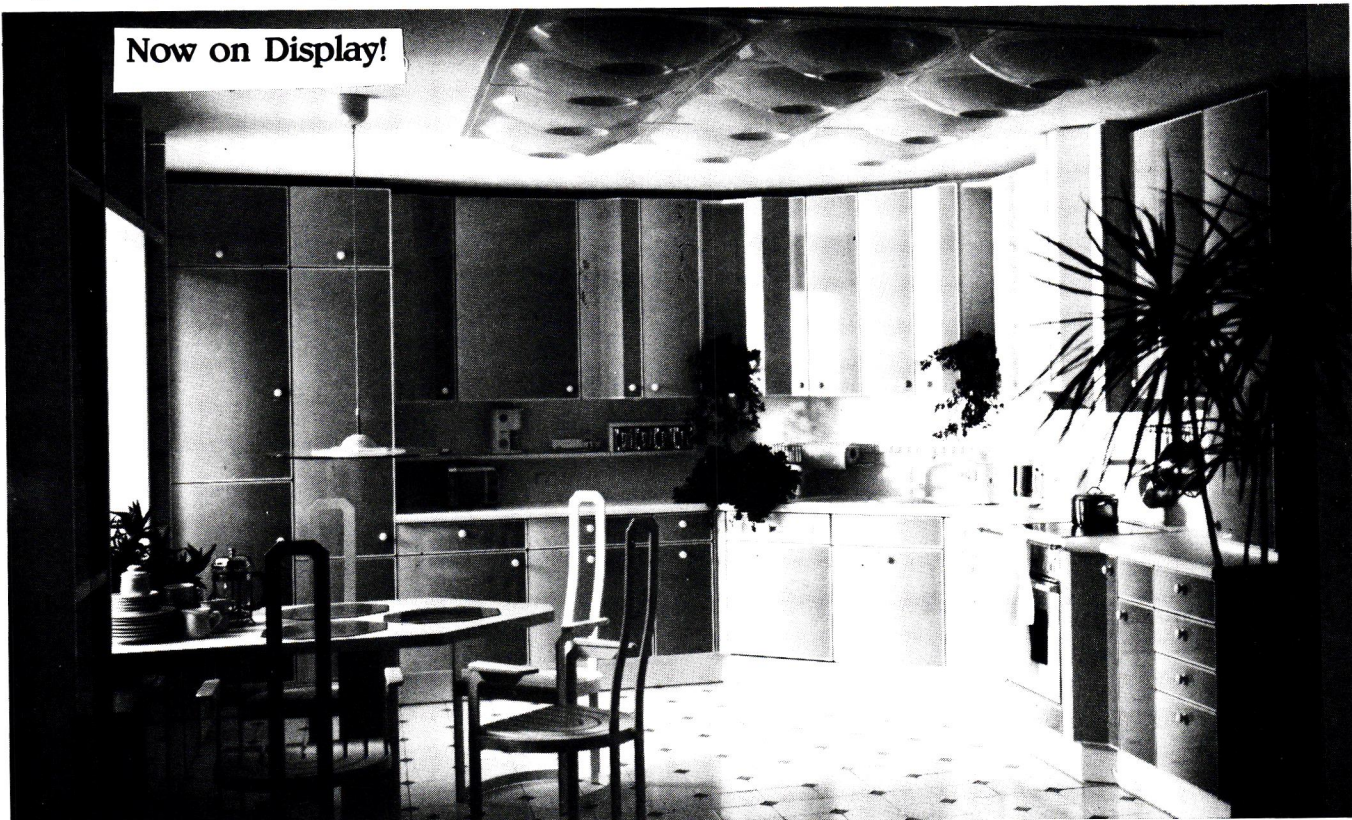
Leo A. Daly to Design Condominiums on Guam

Leo A. Daly has been retained by Hanil Development Co. Inc., a Korean-based firm, to provide conceptual architecture and interior design services for the Agana Beach Condominiums on Guam.

The 11-story, beachfront

building will contain 72 units — seven one-bedrooms, 51 two-bedrooms and 14 three-bedrooms. The 169,650-square-foot project also will include a two level parking structure that will be able to accommodate 96 cars.

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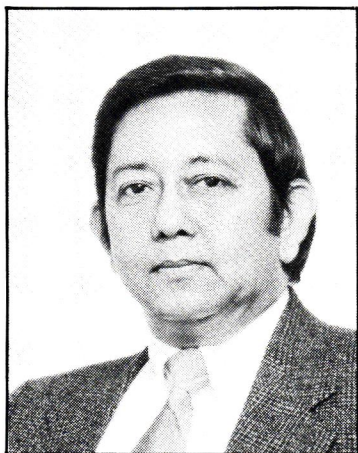
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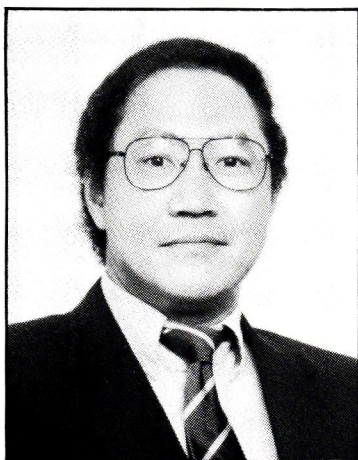
Kajioka, Okada & Partners, Inc. recently announced two additions to the firm.

Sirazul Kazi is currently a vice president and senior associate in charge of the Duty Free Waikiki Expansion Project. He has 20 years of architectural experience in Hawaii, Guam, Taiwan and Iran.

Satoru Henry Inui, who joined the firm as vice president, was previously senior principal architect and manager with Shimizu Corporation in Tokyo. During the last 16 years he worked on projects in Singapore, Malaysia, Iraq, West Germany, the United States and Japan.



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Garduque Selected as Parade of Homes Judge

Theodore Garduque, HS/AIA president-elect, and members of the landscape and interior design industries are among judges selected for the 1989 Parade of Homes.

This Home's For You, theme of the 33rd annual event, underscores an emphasis on showing homes which appeal to a wide range of buyers, from first-time purchasers on a budget to those who can afford a second or luxury home.

Co-sponsored by the Building Industry Association of Hawaii and Hawaii Association of Realtors, the Parade will feature 21 new and remodeled single and multifamily homes on Oahu, Maui and the Big Island. Prices range from \$94,000 to \$5.5 million.

The fully furnished homes will

be judged on criteria including energy conservation, site use, interior space relationships, appropriateness to Hawaii climate and visual appeal.

Open houses begin Sept. 16 and continue for three consecutive weekends through Oct. 1.

Stringer Promotes Potter

Kirk Potter has been promoted to associate of Stringer Tusher & Associates, Ltd.

Potter, who joined the firm in March 1988 as staff architect, is currently involved with high-rise commercial and private custom residential projects.

Prior to joining Stringer Tusher, he was an associate and senior designer for Babcock Pace in Salt Lake City, Utah.

A banquet, multimedia presentation on Parade entries and awards ceremony will be held Sept. 28 at 6:30 p.m. at the Hilton Hawaiian Village Coral Ballroom. A no-host cocktail party starts at 5:30 p.m.

For reservations, contact Barbie Watanabe at 847-4666 by Sept. 5.

Potter's experience encompasses a broad range of building types and uses including residential, commercial, institutional and recreational. His work has been published in national and trade publications.

He has a master of architecture degree from the University of Utah, where he received a teaching fellowship for graduate studies.

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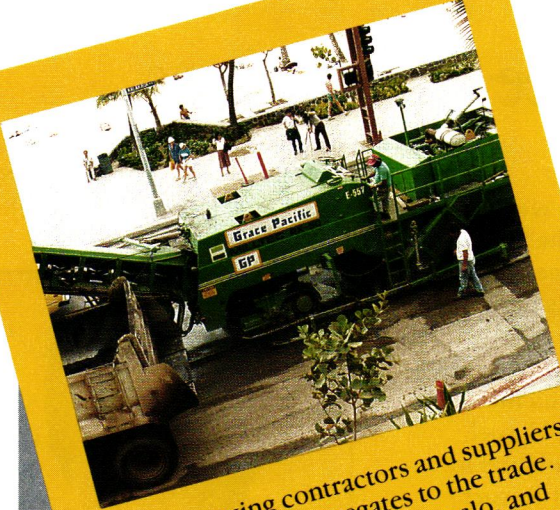


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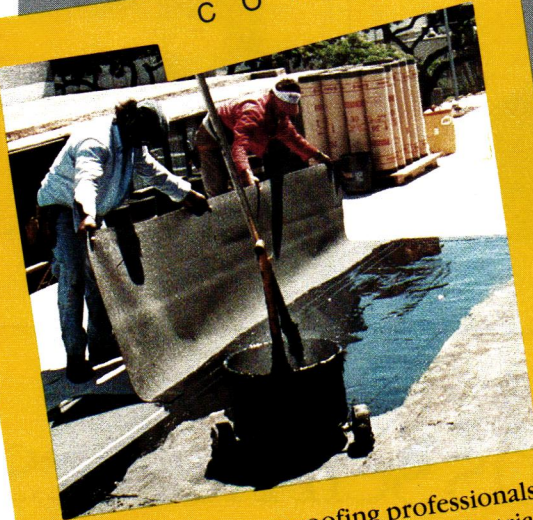
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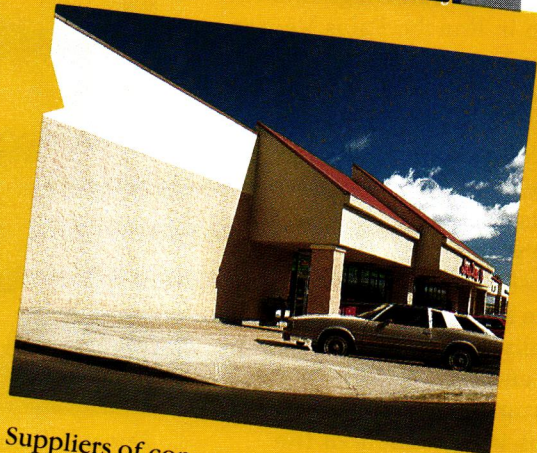


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WAT&G Announces Three Promotions

Wimberly Allison Tong & Goo recently announced the promotion of three staff members.

Donal P. Rounds, who joined WAT&G as project manager in 1985 with 30 years of architectural experience, has been named senior associate.

Rounds' background includes 18 years of private practice in Oregon.

With WAT&G he has served as project manager on projects such as Pacific Islands Club in Guam and Saipan, the Catamaran Hotel renovation in San Diego and Ritz-Carlton in Rancho Palos Verdes, California.

Since joining WAT&G in 1984, **Henry T.Y. Kwok**, who also has advanced to senior associate, has been responsible for several projects, including the Hyatt Regency Nusa Dua on Bali, Indonesia, Canberra Brickworks and the Hyatt Regency Coolum in Australia, Shilla Cheju Resort in Korea and the Waikiki Beachcomber Hotel renovation.

Kwok is a graduate of the

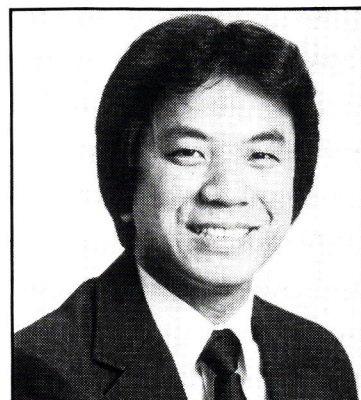
University of Hawaii.

Jon G. Pharis, who was named an associate, joined the firm in 1981 with two architectural degrees from Washington State University.

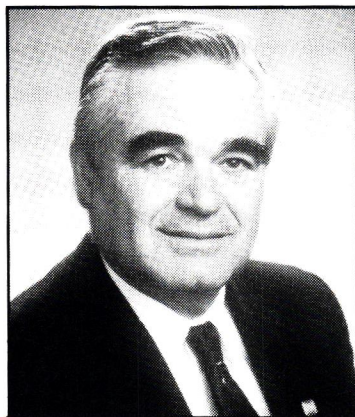
WAT&G projects in which he has played a key role include the Ritz-Carlton, Laguna Niguel, Hyatt Regency Cheju Hotel in Korea, Takakura Golf Resort Hotel in Okinawa and Hilton Hawaiian Village master plan and renovation.

Other major renovation projects include the Hyatt

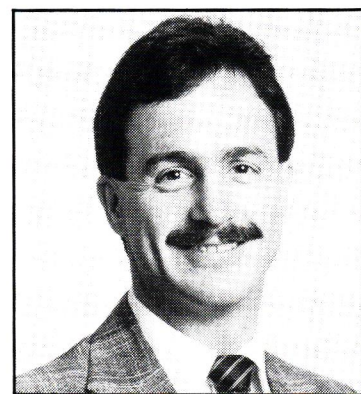
Regency Maui, Kaanapali Beach Hotel and Turtle Bay Hilton and Country Club.



Henry T.Y. Kwok

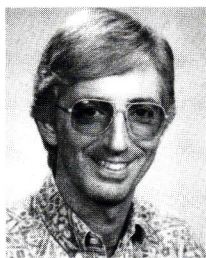


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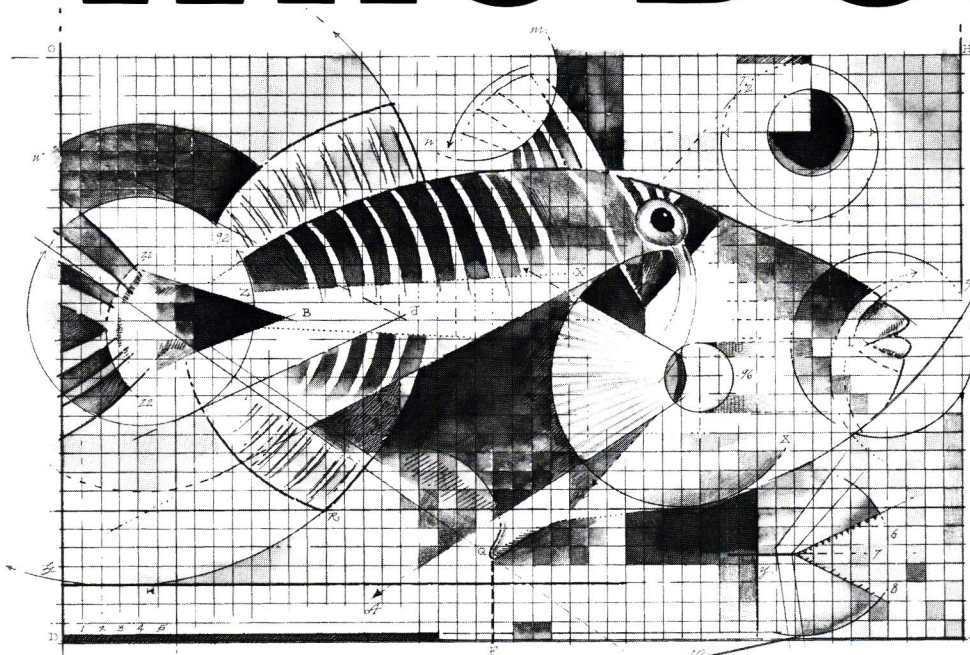


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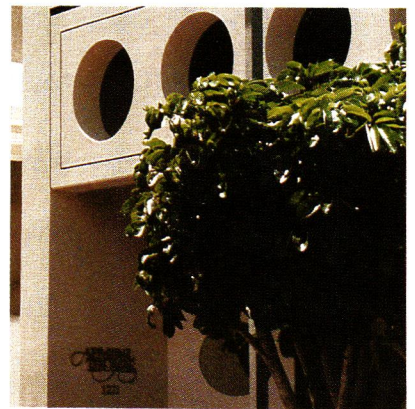


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New Members

Society Membership Increases by 15

Membership to the Hawaii Society/AIA has increased by 15 over the past few months.

Joining as members were **Peggy M. Hoefer, Lloyd Sako, In Pok Lee** and **Myrl Rae Douglass**.

A graduate of the University of Hawaii with a bachelor of architecture degree, Hoefer is employed by Suzuki, Kawabata & Associates. She is married and enjoys cooking and needlepoint.

Sako, a staff member at Project Design, Inc., earned his bachelor's degree from UH and master's from North Carolina State

University.

He and his wife, Susan, have two sons, Bradlee and Christopher. Sako lists woodworking and jogging as hobbies.

Lee is employed by CDS International, previously known as Chapman Desai Sakata, Inc. He earned his bachelor's degree from McMurry College in Abilene, Texas, and also attended Tulane University in New Orleans.

Married with one child, Lee includes photography, painting and fishing among his pastimes.

A staff member at Lacayo Architects, Douglass holds a bachelor of architecture from Mississippi State University and lists sailing, hiking, painting and model railroading as hobbies.

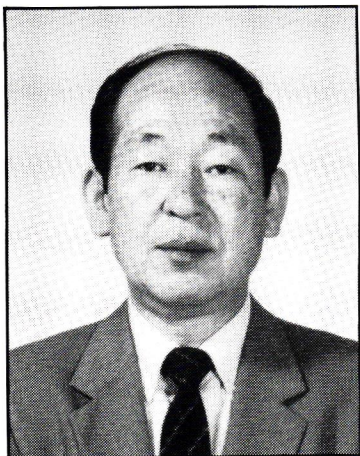
The Society also recently welcomed seven associate members.

Employed by K.G. Hawaii Corp., **Thomas F. Fitzgerald** earned his bachelor of architecture degree from the University of Texas. He and his wife, Elvira, have two sons, Tommy and Kevin.

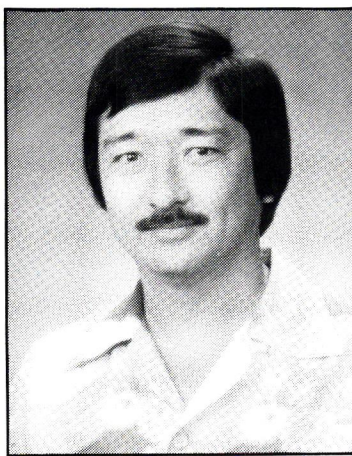
Al Yap of Al Yap and Associates is married and enjoys golf, surfing, skin diving and fishing. **Gibb Fischer**, who is employed by Ferraro Choi and Associates, attended Cornish College of the Arts. He lists golf and tennis as hobbies.

Kabir M. Rafiq of Jeffrey Nishi & Associates holds bachelors' degrees from the University of Kabul and UH. Tennis, running and reading are among his hobbies.

Clyde H. Morimoto, a UH graduate with a bachelor's in



In Pok Lee

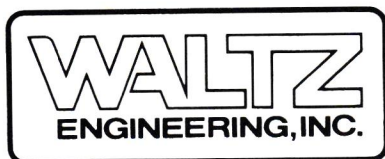


Clyde H. Morimoto

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electrical engineering, is employed by Gima, Yoshimori & Associates, AIA, Inc. Married with one daughter, he enjoys fishing, tennis and diving.

Sylvia M. Jordan of Design Alternatives attended Ithaca College in England, Onondaga Community College in New York and UH, from which she earned her bachelor of architecture degree. Jordan is married and includes skiing, tennis, windsurfing and biking among her pastimes.

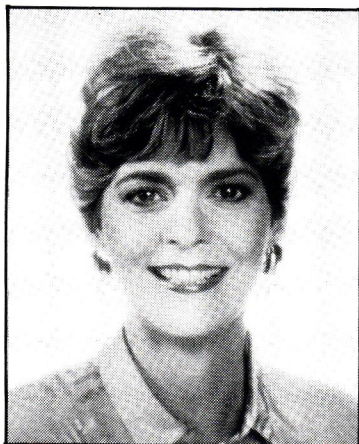
Employed by Wimberly Allison Tong & Goo, **Norman Soohoo** holds a bachelor's from Rhodes School of Design. He enjoys tennis.

Four professional affiliates also have joined HS/AIA.

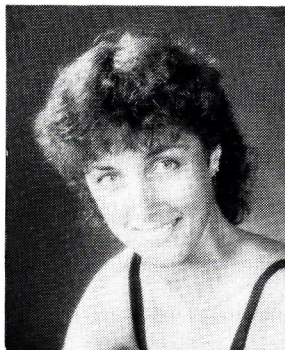
Tosh Ishikawa, a self-employed planning consultant, holds a bachelor's from California State College at Los Angeles and master's from Claremont Graduate School. Married with four children, Ishikawa is an avid golfer.

Also self-employed, **Russell Y. Gushi**, a landscape architect, is a graduate of the University of Oregon. **Jeff Paz** of Accugraph Corporation earned his bachelor's from Kansas State University and enjoys running and reading.

Employed by The Houseworks, **Kathleen Merrill** attended the University of Colorado. Married with three children, her hobbies include swimming, reading and renovating homes.



Kathleen Merrill



Kim Giovannella
Copy Technician

Advice from Kim...

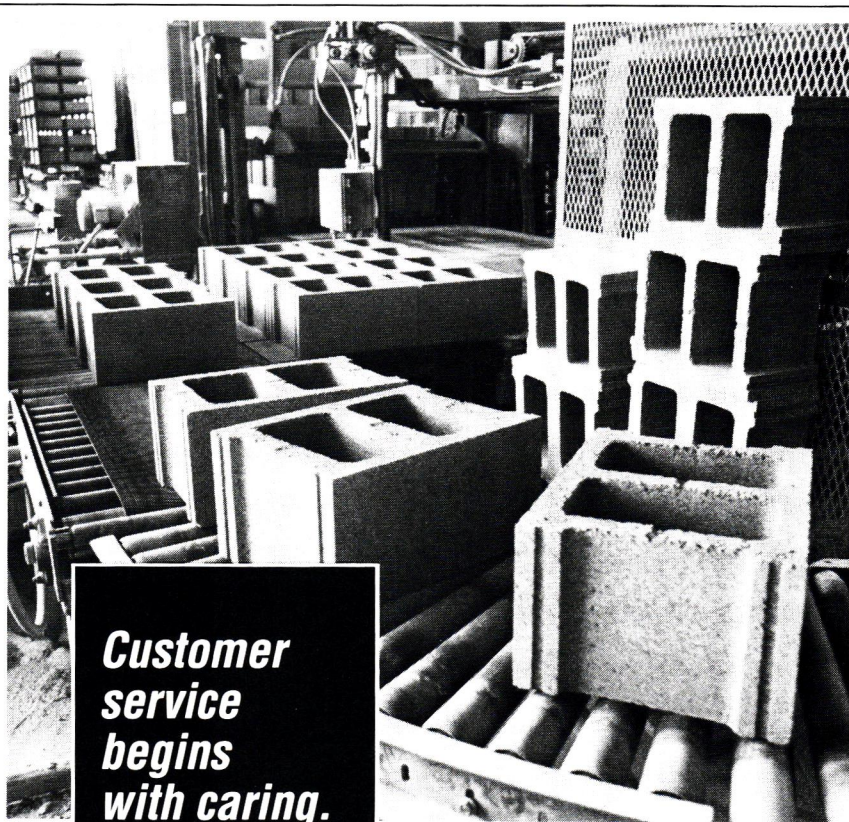
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