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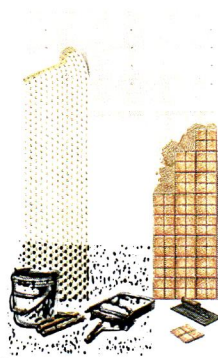


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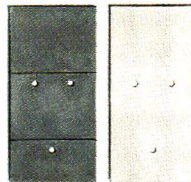
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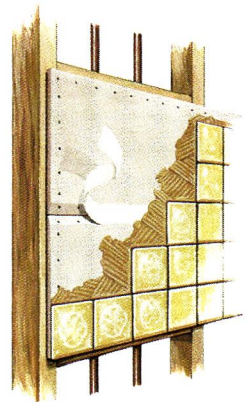
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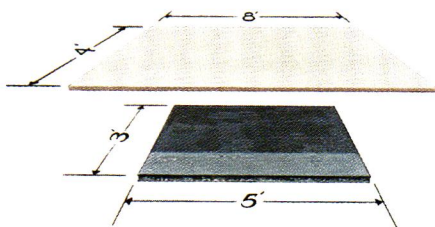
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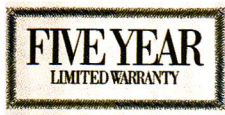
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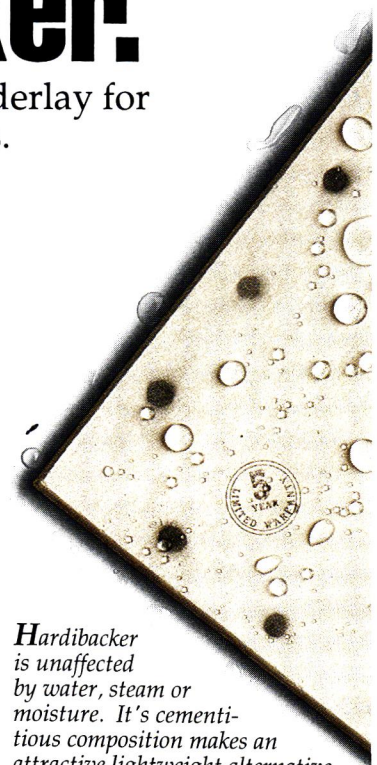
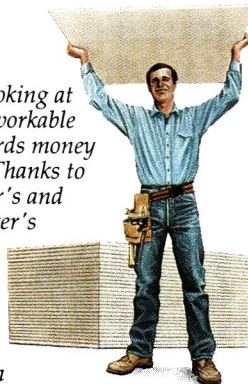


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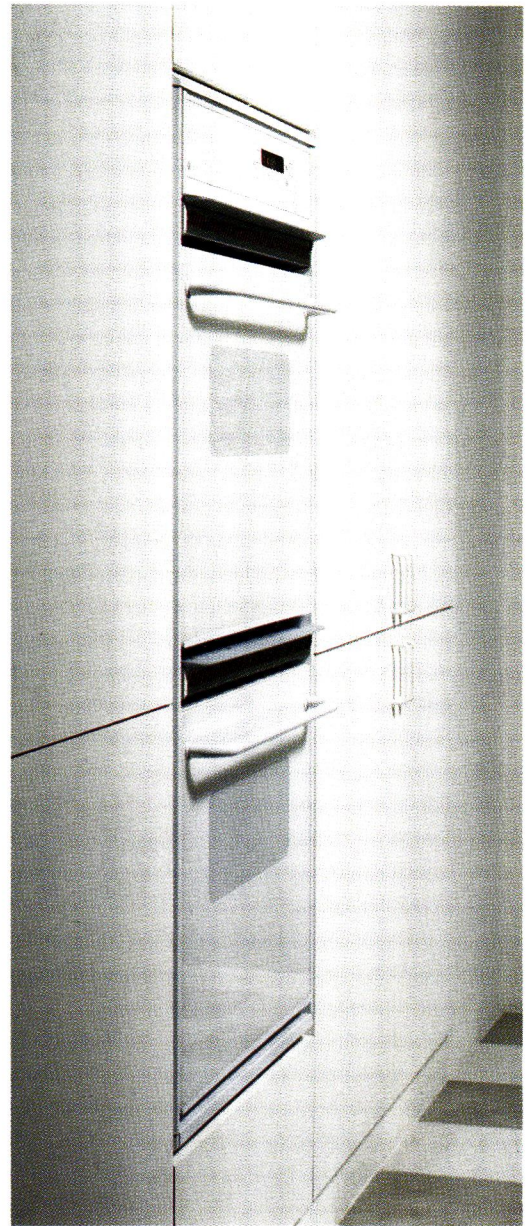
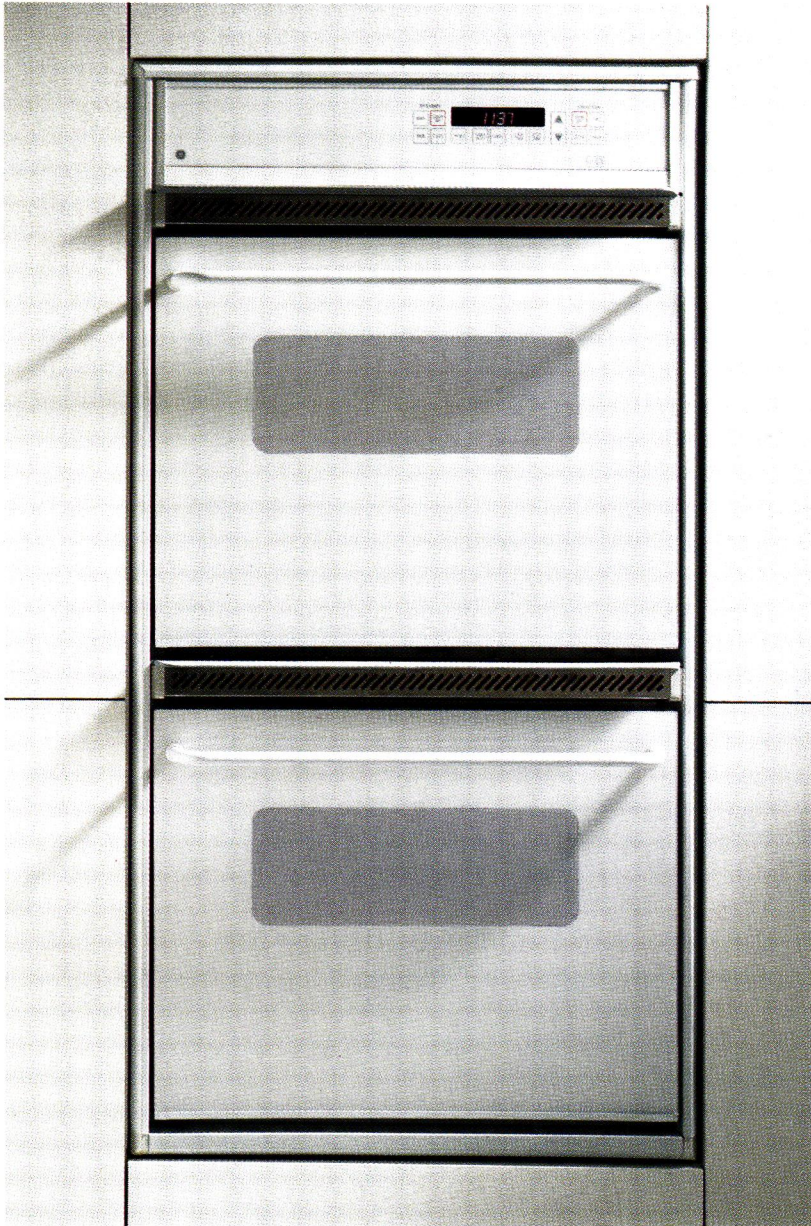


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Contents

Leadership Message

6 Outgoing Council President Reviews Year's Activities

In her end-of-year message, Hawaii State Council AIA president thanks members who sacrificed their time to advance the cause of the AIA.
by Nancy Peacock, AIA

Remodeling

7 Remodelers Live by 'Ten Commandments'

Architect goes over the guiding principles she uses in dealing with renovation projects.
by Spencer Leineweber, AIA

Reflections

9 AIA Membership Growth Holds Steady Course

AIA leadership indicates membership is not affected by economic trends.
by Paul Sanders

Water Resources Management

12 Water Is 'Hot Topic' on Big Isle

Water conservation has been a major concern at the Mauna Lani Resorts.
by Paul Jordan and Mike Gilbert

Feature

17 CAD System Helps Firm's Expansion

Computer networking between offices in Maui and Honolulu allows firm to bid for larger projects.
by Wes Deguchi, AIA

Profile

27 Architect Leaves Lasting Imprint on Cityscape

Gregory Goetz, AIA, who died Oct. 10, had many interests.
by Paul Sanders

News

20 HC/AIA 1992 Awards

30 New Products

32 Hawaii State Council/AIA Elects Officers

32 HC/AIA Welcomes New Members

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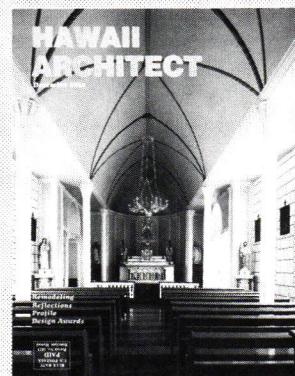
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In this issue ...

The cover, photographed by Carol M. Highsmith, shows the interior of the Saint Philomena Catholic Church, Father Damien's Church, at Kalaupapa National Historical Park, Molokai. The church, built in 1872-78 and recently renovated by Spencer Mason Architects, received an HC/AIA 1992 excellence award in the renovation category.

Remodeling and year-end reflections are featured.

Normally, in a sluggish economy, homeowners will opt to remodel their homes rather than razing them and building new ones or buying another.

This would seem to indicate that there should be increased activity in remodeling, which should keep some architectural firms busy. This trend seems to be corroborated by John Bennett, assistant vice-president, Bank of Hawaii and Leroy Lenny, PhD, chief economist, First Hawaiian Bank. Both indicate that in these times, with interest rates at an all-time low, demand for homeowner, line equity and construction loans is up and that much of the money borrowed is for remodeling purposes. They also indicate a growing do-it-yourself attitude among many homeowners.

Even in bad times, the AIA leadership indicates that membership in AIA remains as strong as it ever was and may even show modest growth by year-end.



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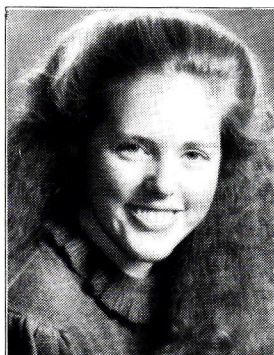
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Leadership Message



Nancy L. Peacock, AIA

1992 Was A 'Very Good Year'

Outgoing President Thanks Members

As my term as state council AIA president ends, it's time to thank many who gave up their time and talent to make this a year of growth.

I wish to thank the council's Board of Directors for attending many Saturday board meetings, usually lasting four to five hours. Many came from neighbor islands. Mahalo to all who participated in our three-day planning retreat on Maui in June. Special thanks to my executive committee of Dan Chun, AIA, and Stanley Gima, AIA, and Executive Vice-President Beverly McKeague who ably hand-led the day-to-day council matters.

The council's main priority is our legislative work, and this year our effectiveness continued to grow. Special thanks to our legislative consultant Ken Takenaka who monitors many bills, writes testimony, and who is there when we need him.

The council this session discussed and often took positions and testified on bills related to housing (41 bills), energy and water conservation (five), regulation (six), statute of limitations (one), initiative (three) and public contracts (one). I believe our Legislature cares about what the AIA thinks on these issues, and our efforts do have an impact.

In support of our legislative positions, the council board at the June retreat adopted 10 public policies compiled and in support of policies developed by the Honolulu and Maui Chapters. Many thanks to Alan Holl, AIA, for compiling the drafts. The housing white paper approved and adopted by both chapters, was particularly helpful with those 41

housing bills. Special kudos to Nick Huddleston, AIA, and his AIA Honolulu Chapter housing committee, Rob Hale, AIA, Marie Kimmey, AIA, Terry Cisco, AIA, and all those who had input and ideas to this paper.

The council also adopted at the retreat the statements of our mission and goals. Our mission statement is:

AIA/HSC shall represent and act for the Institute and the chapters within the state of Hawaii on state matters only.

AIA/HSC shall not directly or indirectly nullify or contravene any act or policy of the Institute or of the chapters within the state of Hawaii.

This year we formed an editorial board with Vice-President Dan Chun as head. Thanks to members of the board including Tom Cannon, AIA (Maui), Gregory Field, Fritz Harris-Glade, AIA (Big Island), Nick Huddleston, AIA, Charlene Oka Wong, AIA, and Andrew Yanoviak, AIA.

An *ad-hoc* committee was also formed to deal with illegal practice (stamping/false advertising). Special thanks to Sharon Leng of RICO, Co-chairs Christopher Smith, FAIA, and Virginia MacDonald, AIA. Much support has been received from AIA/Honolulu and AIA/Maui, and the AIA/Big Island Section. These efforts will continue in 1993.

Many challenges lie ahead. Environmental and energy bills will increase at the Legislature and an energy position paper from our organization would be most helpful. We shall need the continued support of the chapters and section to be an effective assistance group to you. Imua! HA

Remodelers live by 'Ten Commandments'

by Spencer Leineweber, AIA
President, Spencer Mason Architects

Whether it is working with five church congregations as clients, valuing life more since Hurricane Iniki or just discovering the epic movie section at Block-Buster video, the Ten Commandments have been in the forefront of organizing principles for my everyday existence. A remodeling project requires a different type of relationship than typical new construction. It is the focus on process rather than product that can make a project so worthwhile.

1. You shall not have other gods before me.

A successful remodeling project must respect the aesthetic and historic value of the original building. While it can be challenging and intellectual to transform a truly ugly duckling into a better building, if the basic skeleton or quality of the structure is not respected, it will be cheaper to build a new building. There are some good examples if you drive around Manoa of mid-1960s house "oldified" into looking like they were built in the first wave of construction in the valley rather than the last. The opposite corollary is also true, where double hung windows have been turned into jalousies and gently hipped roofs have been brutalized by marriage to a clipped eave shed. It takes a very carefully restrained architect's hand to design an appropriate addition or renovation. A closer commandment might be: One shall honor the building rather than oneself.

2. You shall not take the name of the Lord, your God, in vain.

There is always on every remodeling project a time when at least one member of the project has had "enough" and desires to

throw in the towel and call it quits. Bad language, name-calling and complete dissatisfaction surfaces to become the major focus of the project. Remember this commandment! It may feel like inordinate amounts of perseverance are required in a renovation project for what may be perceived as very nebulous physical rewards. That is only true if one focuses only on the final product rather than the process.

3. Remember to keep holy the Lord's day.

When the project is focused on as product it can be all-consuming. When there is also respect for the process, there tends to be more fun and enjoyment in the project. While it may seem strange, if one enjoys one's work, the time not at work also becomes better. This allows for adequate and rewarding time off to attend to the other issues and people that are important in one's life.

4. You shall honor your father and mother.

The father and mother of any project is the owner/architect/contractor relationship. It is of paramount importance during the construction process that this relationship be held in a careful balance. The alignment of part of the team against the other results in a project that has a much harder time being successful. In remodeling work the alignment is typically strongest between the contractor and the owner. Few owners don't visit their remodeling projects every day, so it is very easy to build up that rapport. This frequency of interaction has to do with the owner's perceived "ownership" of the premises already, and the temporary nature of the contractor's occupancy.

Part of the architect's responsibility is to support every member in his or her individual role as typically defined by the AIA General Conditions. Regular meetings with the team at the job site until the owner becomes confident of the construction process, are essential to keep the owner from directing the work. Many contractors have pledged to do "new contracts only" because of the high costs of intense owner involvement in the remodeling process.

5. You shall not kill; with the corollary of You shall maintain saint-like patience.

Renovation construction takes more time than new construction. It also takes longer in the design and construction documents process. Most owners assume the opposite. Generally, there is more involvement by the owner in the precise "fine tuning of the instrument" during the construction phase. For a project to be successful, the architect must be aware of these time lags and allow them to happen in an orderly, non-disruptive manner.

6. You shall not commit adultery.

Communication is the operative word for a renovation project as well as a marriage. Frustrations and tensions rise rapidly when there are no clear and frequent discussions. This may have to do with the level of expectation on the part of an owner for that final and perfect solution to a problem that has been so personally experienced. A renovation project should involve very intense discussions because the idea of the project and its possible solutions are often already carefully planned out by the owner. It is understanding these preconceived notions, shifting them ever so

subtly and arriving at a "more perfect" solution that is one of the challenges in remodeling work. It is important that there be a stated commitment to the overall process and product. This can often make the difference between a project that falls apart in times of stress and a project that doesn't.

7. You shall not steal.

Most owners automatically assume that remodeling is cheaper. It can be, but the changes during construction are more costly. It is important to provide a cushion of ten percent of the construction cost for changes that will be made during the construction phase. This is seen as a huge amount by most owners who want to stretch every last penny of their construction dollar. These changes will be from both unknown conditions, as well as unrealized opportunities that present themselves during the construction period. Without this cushion, undue pressure is placed on the general contractor to include many "small" changes within his or her scope. This places a pressure on the relationship that can be destructive to the final product.

8. You shall not bear false witness.

It is important to state only what one knows to be true. The assumptions made by architects are often perceived by the owner to be facts. The condition of the building is a significant contributing factor in the design process and subsequent costs.

The architect makes many assumptions in the design process that are built on to make further decisions. Condition should not be one of those assumptions. If possible, a demolition phase during the design process can provide needed factual information. The owner needs to understand clearly that the architect does not have X-ray vision, and the architect should not pretend to have this sixth sense when the construction documents are prepared. The assumptions that have been made and the

resultant repair information should be clearly identified in the construction documents. The general contractor should be tasked with verifying the assumed conditions before proceeding with all the work and final ordering of the materials.

9. Do not covet your neighbor's goods.

While most owners swear they will not change a thing once the job gets started, I have never had this experience in 20 years of remodeling work. There is always something that "must be" included late in the design process. Even more than a typical new project, it is important to identify and refine program requirements as the job progresses and continuously match these changes in scope to budget constraints. While this seems to be the most basic of ideas, it is the area of a project where the biggest problems occur. Wanting "more and more" always seems to raise its ugly head somewhere in the remodeling process.

Most owners know in

remodeling what it is that doesn't work in their home. Often, the articulation of this list is very clear in the first discussion. However, the expansion of that list occurs later on in the process. The possibilities begin to reveal themselves even more during construction because it is easier to "see" the potential. In the worst construction phase case, the project becomes a large-scale mock-up for the owners ideas to be built and ripped out and rebuilt. The solution to this problem is constantly to remind all participants of the prioritized goals for the renovation so that distractions of the minor desires do not begin to undermine the major process and product.

10. Do unto others as you would have them do unto you.

While technically this is not one of the official Ten Commandments this is the greatest commandment and the primary guide to any project. It determines how we should all live, not just work. **HA**

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AIA Membership Growth Holds Steady Course

by Paul Sanders

Fluctuations in membership in professional organizations can be good indicators of good or bad economic times. Not so with AIA membership according to AIA's leadership. Although economic trends show a downturn, membership in AIA, particularly in Hawaii remained steady in 1992.

Honolulu Chapter

Robert Hale, President of the AIA/Honolulu Chapter, said membership in AIA/HC is unchanged from the same period in 1991.

"We had 878 members then, and we have 878 members now," said Hale.

Hale indicated that a certain amount of shifting took place. "Some members moved away or relocated," he explained. "There has also been a drop in student membership. On the other hand, new professional members joined our ranks. The total membership has remained constant and is expected to increase by year end."

Hale indicated that during 1992, because of the economic downturn, there was a shift in project types from the luxury condos and resort complexes to affordable housing, small commercial projects and government work.

"I anticipate this trend will continue in 1993," he pointed out. Also, there was an increase in overseas projects, including government-oriented projects in the Pacific; some firms are quite active throughout Asia."

He also reported that a number of architects are assisting with the reconstruction of Kauai including

damage assessment and permit processing.

Maui Chapter

Marie Kimmey, president, AIA Maui Chapter reports membership showed a modest increase of three members over 1991. The Maui Chapter now has 53 members.

"Essentially, we retained existing members," said Kimmey. "We anticipate membership will not show significant increase in 1993 because of negative economic trends and because most architects on Maui are already members."

The island's size, its population and construction activities limit the number of architects the local economy can support. This condition, according to Kimmey, makes membership drives very unique.

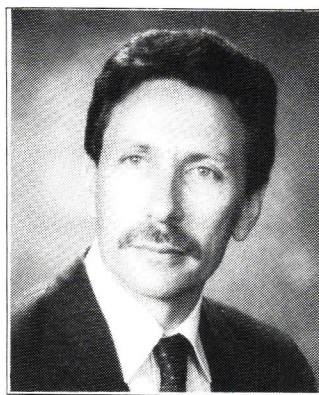
"We know all architects on Maui—including the non-members," she pointed out. "There are only 10 non-members on the entire island."

The state of the economy and size of some of the architectural firms are reasons for having less than 100 percent membership.

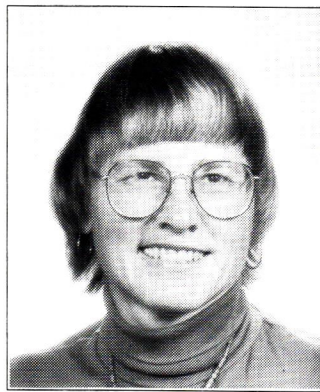
"We tried to bring all non-members in," she explained. "However, it was not economically justifiable for small, one-person architectural firms operating out of private residences."

The Chapter, however, in its third year, experienced substantial growth in affiliate professional memberships during 1992 by including landscape architects and interior designers.

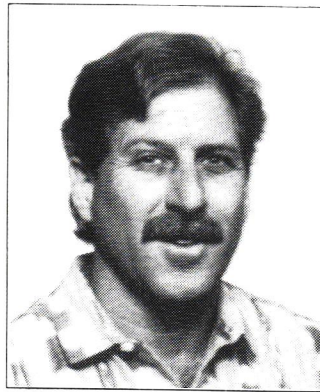
"We actively recruited in this area," she pointed out. "And it paid off. Membership has increased from 8 to 13. This trend is likely to continue in 1993."



N. Robert Hale, AIA



Marie E. Kimmey, AIA



Terrance Cisco, AIA

Big Island Section

Terrance Cisco, President, AIA/Hawaii Island Section, also reported membership "stability" on the Big Island.

"We have a membership of 35 plus members—80 percent of the Big Island architect's population," said Cisco.

Because Big Isle firms are small (the largest has 16 people) and adverse economic trends, Cisco indicated that some of the members are having difficulties keeping up with membership dues.

Cisco believes that a major roadblock in membership growth

is that the Section is fragmented into three separate entities—Hilo, Kona and Waimea—each with different problems and needs.

Distances prohibit rotation of meetings. "Barring expenses," he remarked. "It would be almost easier for Kona members to fly to Honolulu rather than drive to Hilo or Waimea for a luncheon meeting."

As on Maui, the Big Island Section accepts affiliate members.

"Business, depressed until a couple of months ago, is showing signs of improving. Very small firms are still hurting," said Cisco.

Kimmey and Cisco agree that one of the main values of AIA membership is political representation with county, state and national legislatures.

They also agree about the value of continuing education. Kimmey pointed out that AIA-sponsored seminars this year provided "excellent resources for members who want to keep up with current legislation.

Cisco added that because of distances, his organization falls short on education opportunities. "It is an area that we need to beef up," he said.

UH School of Architecture

Barry John Baker, interim dean and professor of Architecture at UH Manoa, reports that student

membership in AIA has declined. The fluctuation, according to Professor Baker, is due to the tendency on the part of students not to respond when times get tough, and also because enrollment acceptance to the School of Architecture has been reduced from 50 a year to 35.

"The reduction in enrollment was due to lack of space. We are in a temporary building while a new one is under construction," said Baker. "Enrollment will increase again after the new School of Architecture building is completed during the summer of 1994."

AIA National

Virgil Carter, Group Vice President for membership, AIA, Washington, D.C., reports that membership nationwide as of September was 52,066, a mathematical decline of 3.8 percent over 1991.

Carter, however, cautioned that these numbers, at this time of the year, are not indicative of end-of-year trends. Historically, membership levels are high at the end and beginning of the year and low at mid-year. He explained that, often, members fail to pay membership dues at the beginning of the year. By the time reports from the chapters come in and reminders go out to these members, it's mid-year. "Numbers

tend to go up from that point on," he remarked.

Carter said that membership growth, by the end of the year, may be slightly lower or at a par with last year's. Typically the past couple of years, growth has been 1 to 2 percent.

"Membership in the Northwest and Pacific region, and particularly Hawaii, has been as strong as in any other part of the country," he said. "Some isolated chapters in the East, where regional economy has been stagnant, however, have shown a decline of 10 to 16 percent.

He remarked that more than 3,231 new members joined AIA's ranks so far this year—the largest influx of new members in some time.

This was attributed to the licensing of 3 to 4,000 architects and the graduation of some 4,000 architectural students.

"The fact that these new members, even in these uncertain times, recognize the value and benefits of belonging to AIA speaks well for the organization and its continued growth," he said. "The challenge for AIA in 1993 is not the recruitment of new members, but the retention of old ones."

Carter said AIA will continue stressing the value and benefits of continuing membership in AIA. **HA**



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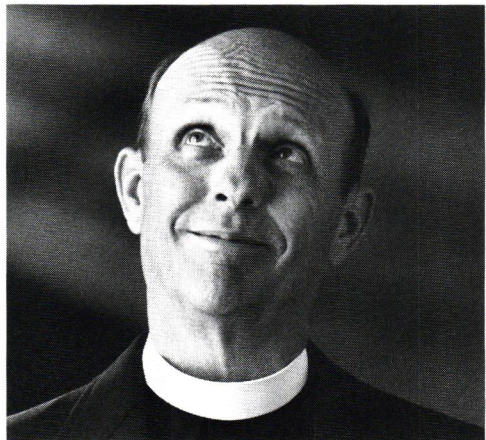
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Water Is 'Hot Topic' on Big Isle

by Paul Jordan & Mike Gilbert

Water, water, everywhere. ... Here in the islands, surrounded by an ocean, washed by typical rains, it's hard to imagine that water conservation is a concern. But on the arid Kohala Coast of the Big Island of Hawaii, water scarcity equals that of many mainland areas. Though the

eastern coast is lush and tropical, Kohala, on the northwestern shore, receives only about 7-12 inches of rain annually—less than "dry" Los Angeles. So it's no wonder that water resource management has become a hot topic as more developments dot Kohala's landscape.

This concern for water

conservation is bringing new technologies, and a new vocabulary. To understand the problem, we need look no further than typical watering patterns: most people over-water by 100 percent, applying two inches of water where only one is needed. Matching the water application rate to the local evapotranspiration (ET) rate is essential to effective water management. (The ET rate is a measurement of how much water transpires through the plant materials and evaporates from the soil surface.)

Compounding the ET problem are plants, landscaping, grading and irrigation systems that do not make the best use of site conditions and weather patterns.

Because tourism is Hawaii's major industry, water is essential not only for the health of the people and plants, but also for its aesthetic value. Witness the myriad man-made fountains, waterfalls, pools, ponds and golf courses that are part of a visitor's Hawaiian experience.

When major resorts are developed in conservation-sensitive areas like south Kohala, they can be a lightning rod for misuse of resources. Or, as is the case with the world-class Mauna Lani Resort, they can serve as a model for others to follow.

Since incorporation in 1972, Mauna Lani Resort has been guided by a philosophy of "malama," the Hawaiian term for enlightened land stewardship. Water conservation has been a major concern simply because of the resort's sheer size:

- Some 200 acres irrigated with fresh water;

Five Commandments of Water Management

1. Form and function: Have a clear view of what you expect from the system. Will your plan accomplish that? Look at what you want to achieve, then work backward for the steps to take.

2. Use appropriate plants: Beware of terms like "native plants" or those described as "drought tolerant." They may not be appropriate for your project, or for climatic conditions at the site.

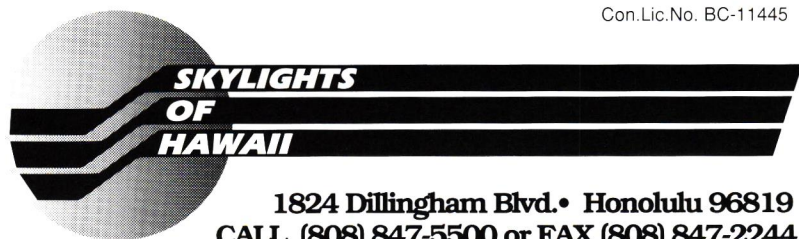
3. Know the soil: To maximize water efficiency, soils may need modification. For instance, too much or too little clay or sand can materially alter water absorption and retention.

4. Use mulches: Essentially new to Hawaii, mulches have long been used in landscape projects on the mainland. They conserve water by reducing evaporation from soil, add decorative touches with materials such as bark or rocks, and control weeds.

5. Irrigate wisely and manage the system: Remember your ETs (evapotranspiration rates); don't use two inches of water when one will do. Make certain that system maintenance personnel are fully trained to perform regular testing procedures such as pressure, timing and condition of heads. Groundskeepers should know their roles, too. And periodic refresher courses should be standard operating procedure. **HA**

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No. 17, North Course, Francis H. I'i Brown Golf Courses, Mauna Lani Resort. Using lava as a landscape element results in striking natural beauty, as well as reducing demands on water resources.

- About 1.3 million gallons used daily;
- Seventy percent is for landscape.

"Water resource conservation and management is one of our most important environmental programs," notes Gordon Chapman, Mauna Lani's manager of environmental affairs. "It is essential to the long-term sustainability of our resort development and limited natural resources."

To mark the 20th anniversary of its commitment to environmental responsibility, the resort has embarked on a pioneering water management program, guided by Jordan Gilbert, Landscape Architects, of Ventura, California.

Developed by principal Mike Gilbert, it is a four-phase project. Phase One involved training Mauna Lani personnel on water management techniques, and evaluating the existing irrigation system. Results are already significant: a nearly 10 percent saving—120,000 gallons of water—every day.

Phase Two has just been launched. It encompasses a full water system audit and adjustments, followed by

equipment recommendations. Gilbert anticipates saving an additional 120,000 to 150,000 gallons a day. The total recovery, up to 270,000 gallons, would supply the daily fresh water needs of 540 four-member families!

Phase Three will see development of long-term water use guidelines, including irrigation and planting design, plus

implementation standards.

The last phase will monitor and fine-tune the program for results and effectiveness.

Jordan-Gilbert advocates a carefully-planned strategy for any water management project. It begins with the basic design, to ensure that all areas will use water effectively. For the actual system installation, key factors are ease of maintenance, upgradeability and a religiously-followed monitoring program to maintain the system's efficiency and integrity.

And, finally, there's the correct water application scheme. "No matter what you've done mechanically," says Gilbert, "how you use the water is crucial. Choice of flora is critical, and water must be delivered not only where it's needed, but in the correct amounts. You also want to avoid waste on bare stretches of ground.

"Resources management is a complex process," Gilbert cautions, "not a one-time thing. It begins with a long-term commitment to the future." **HA**

Paul Jordan and Mike Gilbert founded Jordan Gilbert, Landscape Architects, in Ventura, Calif., over 10 years ago.



Mauna Lani Resort's ancient fishponds are an oasis in an otherwise arid landscape. The plantings around the fishponds and at other areas of the resort are being converted, using plants which are drought-resistant and tolerant of brackish water.

Memorial Design Competition

Intern Produces Winning Entry

A low-profile memorial design submitted by Paul Medley is slated to be built within the trees on the state Capitol's ewa lawn next year in remembrance of the Korea and Vietnam conflicts and the 700 Hawaiians who were lost in them.

Medley, 30, an architectural intern and CAD specialist with Fritz Johnson Associates, produced the winning entry, selected from a field of 51 by the Governor's Commission for the Memorials, in accordance with recently enacted legislation.

The road to Hawaii's own memorials has been long and, at times, difficult as veterans, community groups, legislators and others sought participation in the process. In this, the second formal effort to choose the memorials, the public was invited to view all 51 designs and to comment. Commission Chair Ken Kupchak said he and his colleagues considered more than 1,000 comment cards before unanimously picking Medley's design.

Observed Medley: "The primary purpose to me is to reach out and connect with individuals and the community. This goes beyond logic. It reaches into our emotional side, our conscience, to our very soul. Of course, the realities of the site were also carefully considered. The challenge for me was conceiving a design that would transcend traffic flow, noise and construction of mere rock and stone."

Each memorial in Medley's plan is separate from the other and is to be situated below grade, compelling the visitor to descend emotionally and physically into a depressed courtyard. Once there, one is uplifted—the eye directed toward two separate berms of S-

shaped terraced pedestals, starting at 12 inches and stepping up at 6-inch intervals, terminating at a moss rock wall reminiscent of a sacred *heiau*. The total height is 5 feet, six inches, just above eye level.

The overall winding form, which leaves existing trees intact, is seen by some as resembling an Asian dragon with its powerful, indomitable spirit. The names of those who were killed or who remain missing in Korea and Vietnam are individually inscribed, etched so that visitors can make rubbings and leave flowers or personal memorabilia.

Medley said he feels personal interaction, both emotional and physical, is vital to the memorials. He said he attended several public meetings over time and in listening to the veterans share their feelings about their experiences as "forgotten men" and what constituted a memorial to them, was deeply moved and inspired.

The basic idea came to him like a bolt before dawn one morning and was completed on CAD a few hours later.

"Vet sentiments and those of civic-minded persons who want to see the Capitol district plan protected, impressed me tremendously," he recalled. "Getting to interact with them enabled me to come up with a design that can, I believe, be helpful to healing at a lot of levels."

The memorial project is now moving through engineering detailing and public approvals, with construction slated to begin by next summer. Veterans are hoping for a dedication late next year, possibly on Veteran's Day.

"Hawaii's 100,000 veterans, their families and friends have waited a long time," noted Medley. "I am very humbled to have this opportunity to be part of the historic remembrance." **HA**



PHOTO COURTESY OF HONCAD

This picture shows how the memorial designed by architectural intern Paul Medley will blend with surroundings on the state Capitol's lawn. The design, generated using a CAD system, was superimposed on an actual photograph.

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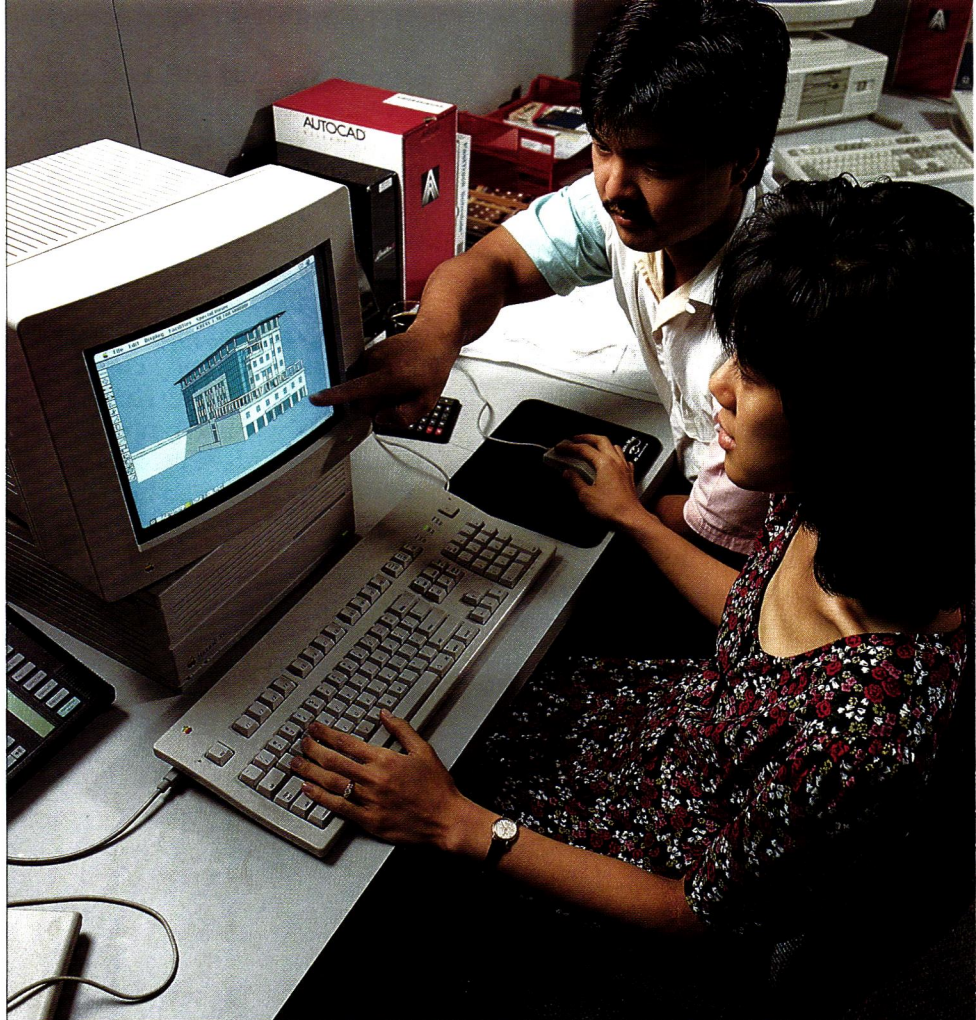
CAD System Helps Firm's Expansion

by Wes Deguchi, AIA

The world as we know it will never be the same. With the advent of computers in business, we have witnessed an increase in productivity and time efficiency in all industries. In the newly automated business office, time and distance barriers have been broken down, and the amount of work that once required a week to complete now only takes one day.

The field of architecture is no exception. With complex line drawings and three-dimensional structures now easily created on the computer utilizing the CAD (Computer Aided Design) system, there is no limit to what can be achieved.

This 3D drawing of the Kress building was generated on the computer.



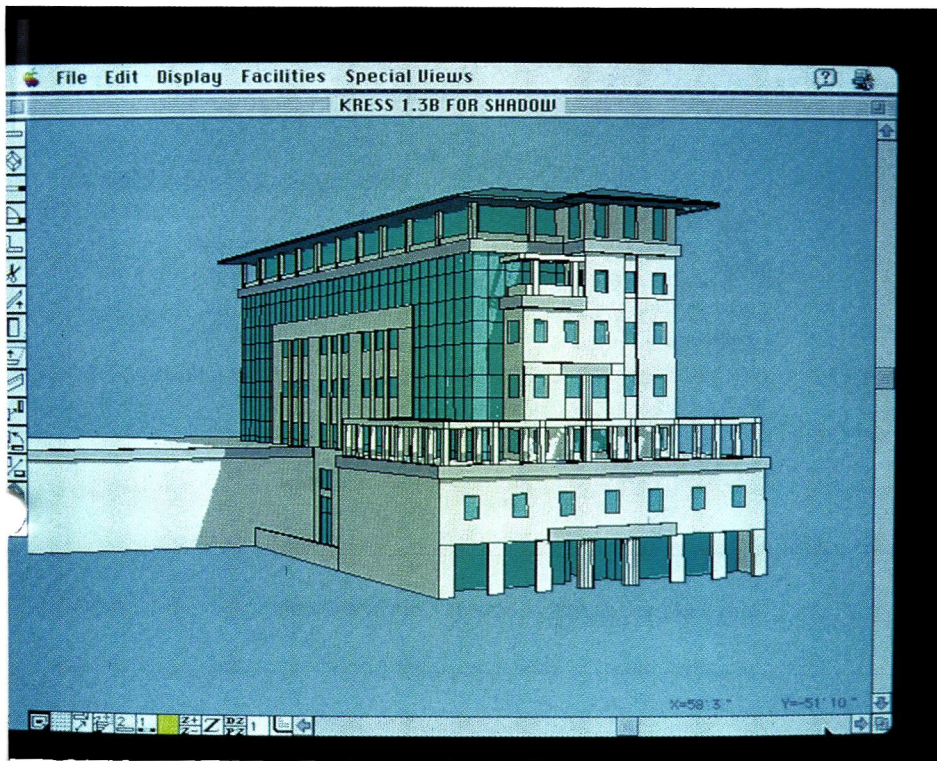
The use of computers has dramatically affected operations at Gima Yoshimori Miyabara Deguchi Architects Inc. (GYA), bringing to light the realization that physical space is no longer a criterion for the potential

GARY HOFHEIMER PHOTO

Mel Nakaoka and Cheryl Unemori are shown using the Architrion Software to produce a 3D drawing on the Macintosh.

workload capacity of our office. For the past two years, we have tested the concept of running an architectural business from two separate offices—one on Maui and the other in Honolulu. As one would expect, communication is the key factor to the success or failure of this concept. This can translate into a number of components, including: weekly travel of personnel between both offices; multi-direct foreign exchange telephone service between both offices; weekly teleconference calls; daily facsimile correspondence; and computer communication capabilities.

Presently, there are eight CAD work stations in our Maui office and eight in Honolulu, most of which consist of 486 PCs utilizing the AUTOCAD Release 11 program. With technology



advancing so rapidly, we have found that to stay on the cutting edge upgrading of software must be done yearly.

The physical gap between the two islands has been bridged by the use of Telebit T2500 high speed modem, which allows us to send files back and forth. Through this method, complete "drawing files" can be sent from computer to computer, essentially creating a new file and then sending it back to the other office.

This system of computer networking has distinct advantages for a practice in a state where water is a major physical barrier. It allows us to provide our clients, who are located on various islands, the personalized service normally found only in a small office, and also the support, collective experience and technical knowledge of a larger firm when both offices are involved. If the foundation of our business is to provide a "service" to our clients, then the potential is here to establish a statewide practice—going that extra mile for the client in an efficient manner.

Another advantage we have realized from networking through computers is the ability to compete for larger-scale projects. If you are operating two smaller, 20-person offices, but through effective computer networking can become a 40-person office, the capabilities are present to handle large projects. We have recently completed the "working drawings" for Nauru Towers Phase II, a 46-story, 370-unit high-rise residential condominium, utilizing this concept. The drawings were developed on computer from both offices.

The modem advantage has also been tested on work performed internationally. In the case of the Nauru Towers project, drawings were sent and received via computer from Australia.

A project we are currently working on using this joint-work concept is a new air cargo facility for the Honolulu International Airport. The design calls for a

four-story, mixed-use, industrial building that will be constructed in two phases. The air cargo facility will be located at ground level to facilitate possible air carriers such as Northwest and United Airlines. The upper levels will include parking and industrial commercial space. When completed, the new facility will be two city blocks in length, in front of Ualena Street.

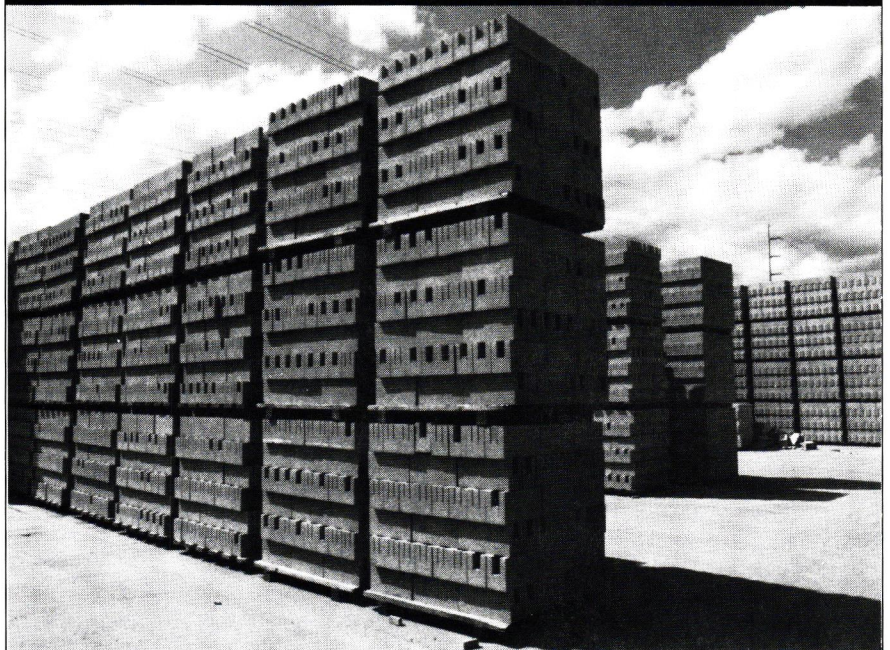
The dawn of the computer age is upon us. With 95 percent of our firm's work produced by the CAD

system, we feel we've only begun to tap its full potential. We welcome the "change," or should we say "challenge." With offices on two islands, computers certainly play an integral part of our operations—bridging the gap, allowing us to work separately, but as if in the same room. **HA**

Wes Deguchi, AIA, is the managing partner for the Honolulu office of Gima Yoshimori Miyabara Deguchi Architects, Inc.

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HONOLULU CHAPTER/AIA 1992 DESIGN AWARDS

Award of Excellence Restoration and Adaptive Reuse

Spencer Mason Architects Saint Philomena Church

In 1987, Spencer Mason Architects was asked by the Friends of Father Damien, a non-profit, non-denominational group to undertake the restoration of Saint Philomena church, Father Damien's church at Kalaupapa National Historical Park, Molokai. The project had to be completed in time for the centennial of Father Damien's death in April 1989.

The building had not been used for church services since 1932. It had sustained some damage from a 1979 earthquake, a 1981 mud slide, extensive termite degradation of the roof structure and corrosion from salt air.

The architect's approach was to preserve as much of the church's historic fabric as possible. The building was not modernized with electricity or plumbing as neither had ever been used within the structure.

The restoration effort involved many challenges due to the remote location of the church on the island of Molokai. The isolated peninsula of Kalaupapa can be reached only by trail, boat or airplane due to towering 1,600-foot cliffs rising along the landward boundary. Some of the materials used for construction had to be airlifted to the site by military helicopters; the construction crew lived for over a year (during the week) in barracks on the peninsula. The church is located on the eastern side of the peninsula at Kalawao and is reached by a narrow dirt road from the town of Kalaupapa.

Beside close collaboration with the Friends of Father Damien, the architect was in touch with all overlapping governmental jurisdictions and interest groups—the National Park Service, the state Legislature and administrative departments, the

occupants of the peninsula, the Catholic Diocese, the Department of Health, and many other organizations and individuals who contributed toward the restoration goal.

The church compound is listed on the National Register of Historic Places as a site of international significance, and is recognized as a cultural resource representing the history of its builders and of the settlement, a place of exile for Hansen's disease sufferers. Built by members of the leper colony in stages between 1872 and 1888, Saint Philomena's is more significant for its history than for its architectural appearance. It was understanding this fact and how to preserve that history from an architectural point of view that makes this project so significant.

Credits:

Owners:

Friends of Father Damien

Architects:

Spencer Mason Architects

Project architect:

Spencer Leineweber, AIA

Structural engineer:

Arman Kitapci

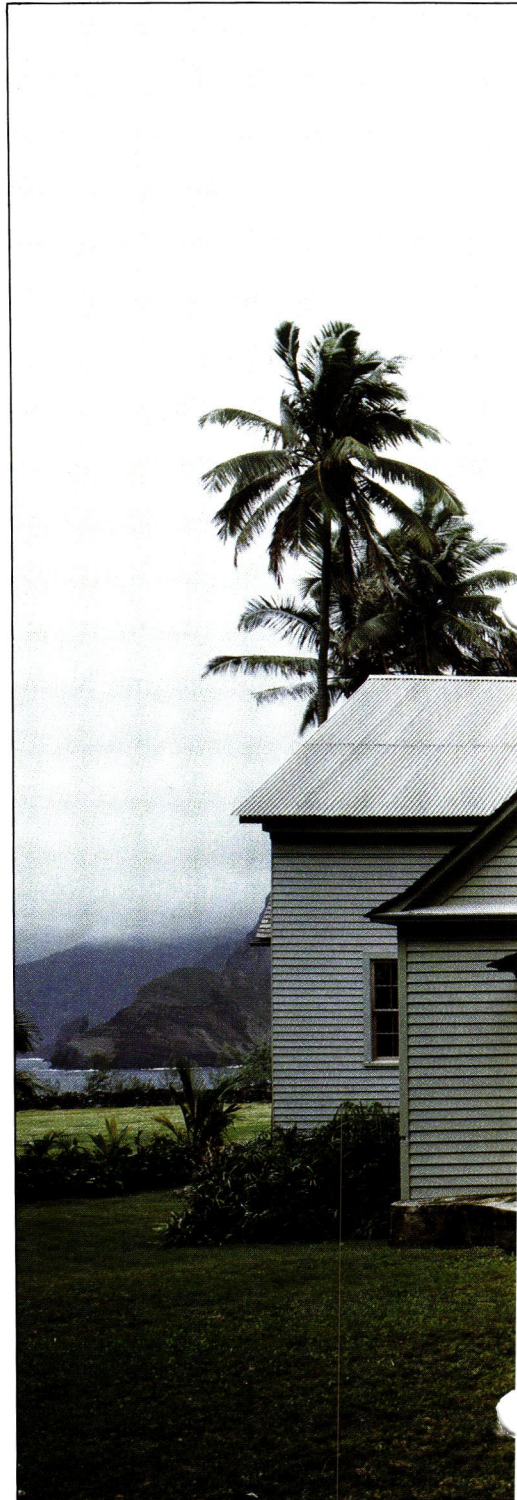
General contractor:

Banner Construction

Company

Foreman:

Rob Varner

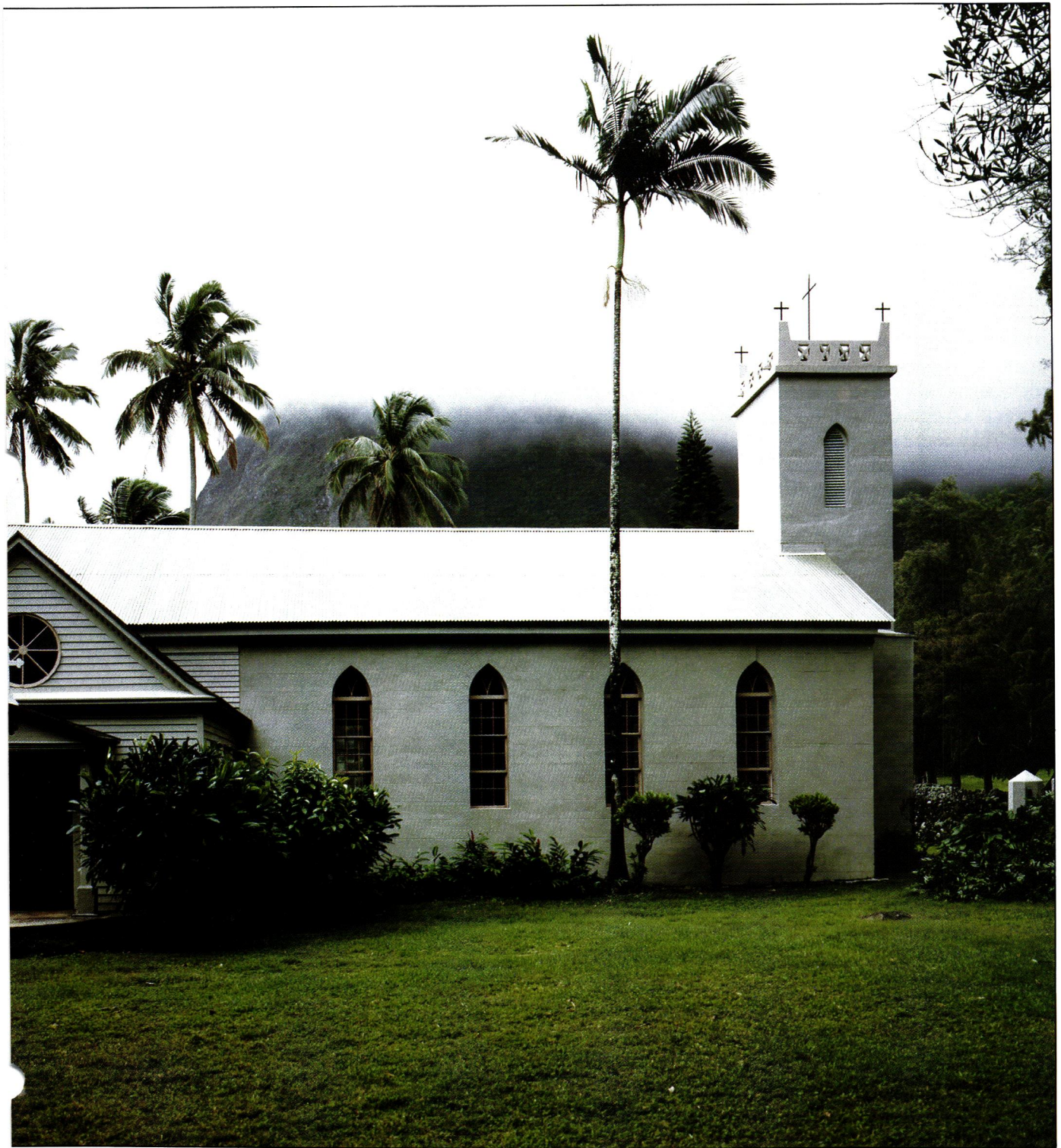


Saint Philomena's Catholic Church at Kalaupapa

Jury's Comments:

One Juror commented: "This restoration gives every appearance of being a letter perfect restoration of a significant historic structure."

Another Juror added: "It shows a lot of care and love for the structure."



nal Historical Park, Molokai, was renovated to its original state.

CAROL M. HIGHSMITH PHOTO

HONOLULU CHAPTER/AIA 1992 DESIGN AWARDS

Award of Excellence Office, Commercial and Institutional Design

Kauahikaua & Chun Architects Bernice Pauahi Bishop Memorial Chapel and Heritage Center

In 1985, the Trustees of the Bishop Estate asked the architectural firm of Kauahikaua & Chun Architects to design the Bernice Pauahi Bishop Memorial Chapel and Heritage Center to commemorate the centennial of the Kamehameha Schools.

The new Chapel replaces the original Victorian Gothic Bishop Memorial Chapel designed in 1895 by C.W. Dickey and demolished for construction of the Farrington High School. As early as 1928 the trustees of the Kamehameha Schools were already planning a replacement for the chapel. They could not have known that 60 more years would pass before a new chapel would rise on the mountain.

The new chapel seats 500 and is used for daily devotionals by stu-

dents and faculty. It has a custom-built organ of 2900 pipes which was designed by the architect.

The Heritage Center contains many of the personal belongings of Bernice Pauahi Bishop. It is unique because it was expressly designed around the antique furniture collection.

The buildings use traditional Hawaiian design concepts. A large stone platform is the base, and steeply pitched roofs emphasize their sacred and royal character. Each function is housed in a separate building as was the custom of ancient chiefly Hawaii.

The Chapel plan is rectangular as was the traditional Hawaiian house. The Heritage Center plan is square and uses only perfect geometric forms to enhance its monumental-

ity. The pyramidal roof, symbolic of eternal life, is an allusion to Aikupika, the enigmatically-named house of Pauahi's birth and the Hawaiian name for "Egypt."

The buildings are a blend of Hawaiian and Western architecture that was popular during the heyday of the Kamehameha Dynasty. The interior of the Chapel shows a New England connection in its avoidance of stained glass and strong color.

Hawaiian materials were used for construction, including lava rock masonry and solid koa cut from Bishop Estate lands for doors, ceiling, panelling and furniture. The intent is not a show of extravagance but the ancient idea that the house of God and the house of alii should be adorned.

Credits

Owner:

Trustees of Bishop Estate

Architect:

Kauahikaua and Chun Architects

Principal in charge:

Dwight Pauahi Kauahikaua, AIA

Project architect:

Daniel Chun, AIA

Mechanical engineer:

Cedric D.O. Chong & Associates

Structural engineer:

Ray Keuning

Landscape architect/civil engineers:

Belt Collins & Associates

Interiors:

Kauahikaua & Chun Architects

Wright Bowman Sr.,

Custom Koa Furnishings

Contractor:

Constructors Hawaii

Floyd Higa, superintendent

Acoustics:

Smith Fause & Associates

Pipe organ:

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AUGIE SALBOSA PHOTO

The Bernice Pauahi Bishop Memorial Chapel and Heritage Center buildings are suggestive of ancient Hawaiian religious structures.

Jury's Comments:

The jury appreciated the bold and extensive use of native Hawaiian materials. The siting and massing of the buildings and the treatment of the site walls, walks and planting remind visitors that they are in a "very special place." One of the jurors noted: "The Chapel complex should stand and grow in stature over time as an original work of art."



AUGIE SALBOSA PHOTO

Interior of the Bernice Pauahi Bishop Memorial Chapel showing the acoustical reflector and the pipe organ designed by the architect.

Residential Housing

Steel Framing Offers Many Advantages

by Maurice H. Yamasato, AIA
President, Fujiwara Aoki & Associates

This is the second of a two-part article about metal framing for residential housing, from an architect's viewpoint.

Designing a commercial or industrial building with steel framing is standard for any architect and would not be out of the ordinary for his client. However, recommending a homeowner to build a steel-framed

residence may raise eyebrows. Why a steel frame instead of a wood frame?

We have serious ground termite problems in Hawaii. Steel frame houses are definitely termite-proof. We can reduce cost and headaches by eliminating wood and ground termite treatment. Wood-frame houses need to be tent-treated every five years, but with steel-framed houses, this would not be necessary.

Steel studs are non-combustible and fire resistant. The home can be totally non-combustible depending upon materials selected for roofing, framing, exterior siding and floor decking.

Structurally, steel frames are equal to or better than wood and will not split or crack with time.

Steel frames and studs are easy to work with because they are straight and uniform. They do not curl, warp or shrink like wood. This translates to cost-savings through reduction of rejects and minimizing waste of materials.

Cost-wise, steel-frame houses should be less expensive than wood-frame houses, according to several contractors, because construction time on the field is shorter than the standard wood-stud system. Presently there are very few contractors familiar with metal "stick construction."

If there aren't more steel-framed homes in Hawaii, it's because this residential construction system is "new" locally. Architects remember when "stucco" and "double wall" construction were cautiously received, and the lack of technical resources and labor kept costs on the higher end. In the same way, steel-frame houses is an alternative method of construction which will be cost-effective in due time.

Steel framing does not

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significantly affect architectural design. Many shapes and forms such as arches, curves, undulating walls, domes and any other innovative detail can easily be achieved with steel frame. When designing our first three steel-frame houses for our client, Abe Lee Development, project manager Enid Nishikura found it "no different than any wood frame design. It gave flexibility to deviate from standard construction modules."

As we are faced with concerns about environment, the steel frame system should be welcomed by environmentalists because it will decrease the demand for lumber, therefore having a positive effect on our forest and wild life.

If you are considering steel frame, consult your structural engineer for sizing, wind load stress factors and foundation design. Steel frame construction may be another alternative for affordable housing in Hawaii. **HA**

Maui to Host 1996 Conference

Maui has been selected as the site of the next Northwest and Pacific Regional Conference in 1996. Marie Kimmey is chair of the Maui Conference. Ideas and assistance in planning this upcoming event should be addressed to her attention, AIA Maui, P.O. Box 929, Wailuku, HI 96793.

The 1992 Northwest and Pacific Regional Conference was held in Portland, Oregon, Aug. 29. This year's theme was "The Making of Place in the Evolving City." **HA**

Oops!

Julie B. Abcede, AIA, project architect, Philip K. White Associates, was omitted from the photo caption in the article: "CADD Brings Realism to Design," page 7, November issue. Our apologies! **HA**

Editor

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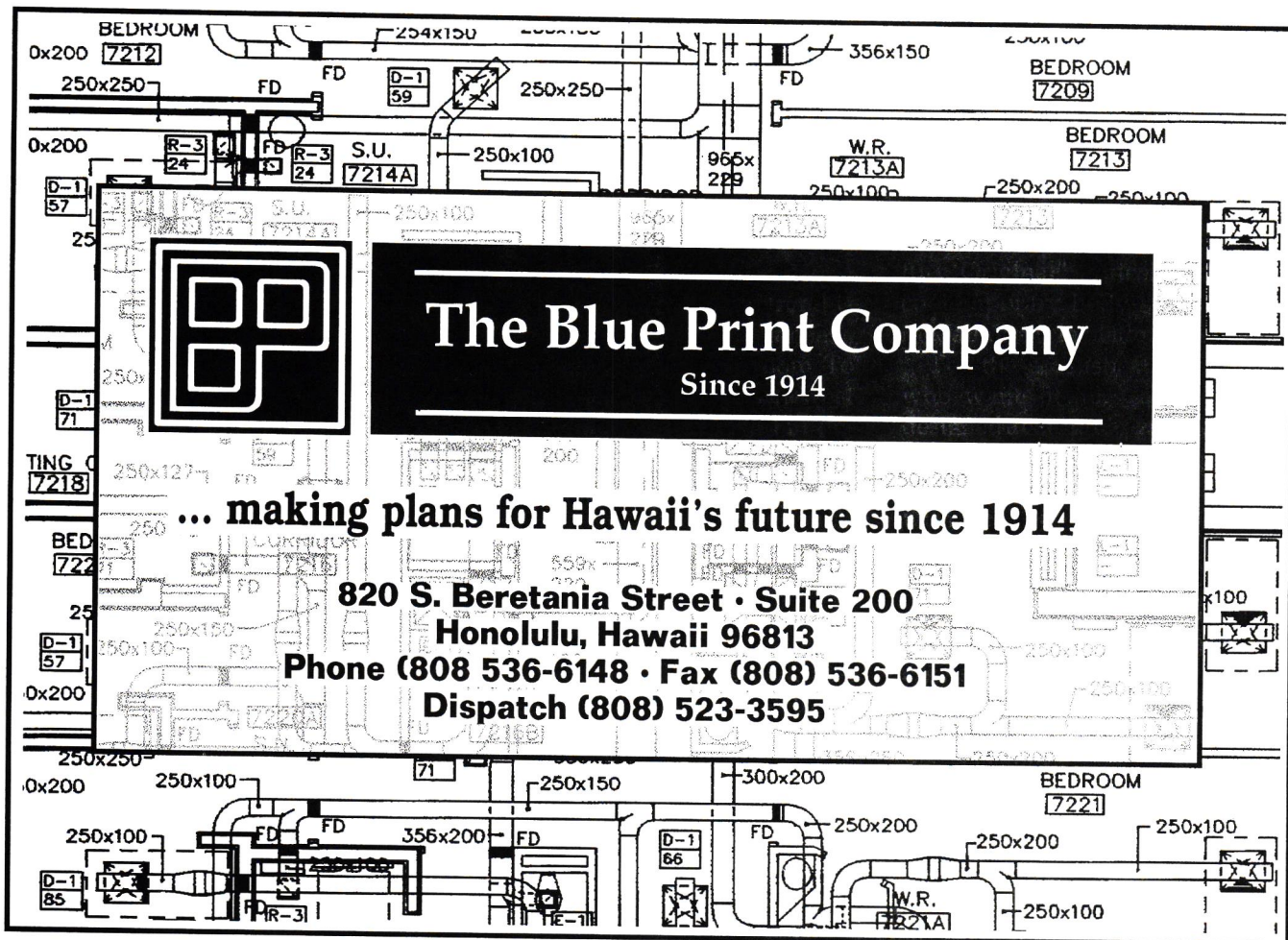
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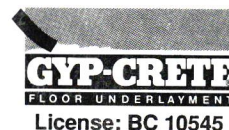
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Gregory Goetz, AIA

Architect Leaves Lasting Imprint on Cityscape

by Paul Sanders

It is often said that in business no one is indispensable. James G. Dittmar, executive vice-president, Edward K. Noda and Associates, says that Greg Goetz, AIA, who died Oct. 10 at age 66 "comes mighty close to being irreplaceable."

At the time of his death, Goetz, a resident of Kaneohe, was project manager in charge of design and construction management for Asbestos removal at the State Capitol building, a complex project coordinated by Herb Iwai for the state's Department of Accounting & General Services (DAG), with Roy Nihei, AIA, of Group 70 as the renovation project architect.

Dittmar said that the chances of his firm finding someone with Goetz's breadth of experience is unlikely.

"Greg was unique," says Dittmar. "He knew the specs, was up on architectural issues and knew how buildings hold together. He was a walking encyclopedia. It may take several people to replace him."

Asbestos removal presents a myriad of problems because of procedural regulations.

"Renovations are messy. Add to that the asbestos removal requirements and the problem becomes one of major proportions," remarks Dittmar. "Ensuring that Hawaii's historical treasures such as tapestries and ornate woodworks are taken down undamaged for the reconstruction phase also requires a caring person, someone with an appreciation of history and the arts. Greg had all these attributes, and more."

Adds Edward K. Noda, the

firm's principal: "Greg was a cheerful person with a positive outlook on life. He never raised his voice and never spoke in anger. His untimely death was a shock to all of us. We held him in high esteem."

Noda indicates that Goetz had strict quality standards.

"If a report didn't look professional," he recalls. "Greg would re-do it, regardless of cost or time."

Prior to joining Noda Associates, Goetz was with KFC Airport where he was in charge of design management for the Interisland terminal. In the 1980s, he was with Parsons Hawaii doing military projects on Oahu and the Philippines.

Goetz started his 35-year

architectural career with Vladimir Ossipoff & Associates architects in 1957, earning a partnership in Ossipoff Snyder Rowland & Goetz in 1973. This association lasted for over 20 years.

Vladimir Ossipoff, FAIA, recalls that one of the firm's major projects Goetz handled in the late 1950s was the Queen's Hospital, including the first physician office building.

"Greg's assignment on this project was then called in those days site supervision—project management today," Ossipoff says. "He handled that complex assignment extremely well. The most striking thing about Greg was his patience and attention to detail. He was a soft-spoken, gentle human being. As a



AUGIE SALBOSA PHOTO

Queen's hospital is one of the many projects Gregory Goetz, AIA, handled during his 35-year architectural career.



Gregory Goetz, AIA, right, is shown in a recent photo with his mother, Adeline Goetz, left, and his wife, Sally Goetz. Goetz died Oct. 10 at age 66.

A wood shake roof can make any home look more radiant.



Wood shake roofs have been taking a lot of heat lately.

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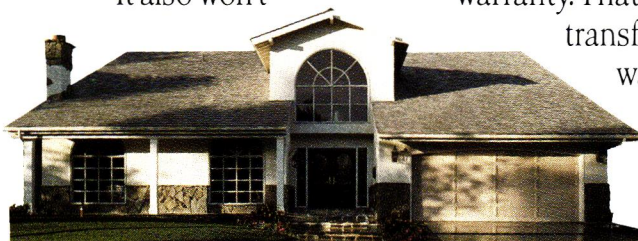
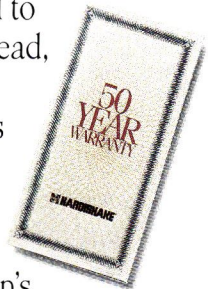
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professional, he was very thorough, well-organized and efficient."

Franklin Gray, AIA, Franklin Gray Associates Architects also worked closely with Goetz during his own 15-year career with Ossipoff Associates.

"Greg was a friend and an exceptional professional who could take the pain out of the construction process without forsaking the quality," Gray recalls. "He will be missed."

Goetz also had artistic inclinations. He loved music, a passion he "inherited" from his mother, Adeline Goetz, who sang with the San Francisco Opera chorus.

George Kekoolani, AIA, then one of Goetz's colleagues with Ossipoff Associates and currently project architect with the same firm, recruited Goetz to sing bass with the Kamehameha Alumni Glee Club.

"Greg was the only haole in the group," says Kekoolani. "He may



Gregory Goetz as he appeared in the opera production of Turandot.

have had some difficulties mastering Hawaiian words, but when it came to music, he never missed a note."

Goetz performed with the Glee Club at the New York World Fair in 1964 and took part on a 23-day tour of Japan in 1969. The Club also joined the Hawaii Opera Theater (HOT) Chorus and performed in opera productions such as Turandot, Aida and Barber of Seville. Goetz also sang in the choir at Saint Mark Lutheran Church in Kailua.

His wife Sally says that her husband also was interested in nature, space, oceanography, archeology, gardening and traveling. "Greg was thorough and methodical," she says. "Before we left on a trip to Egypt, he even took a course in Arabic. Visiting the Egyptian pyramids was one of the most exciting moments in his life."

He is survived by his wife Sally; daughter Pamela Hudson; son Gregory R.; mother Adeline; and a grandson. **HA**

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This new California Series™ laminated glass is represented by Skylights of Hawaii, Inc., Honolulu.

Fans are in

With increased consciousness and concerns about energy and environmental issues, consumers are turning to ceiling fans as an energy-efficient alternative. Viewed not only as energy-efficient, consumers are finding that a quality ceiling fan adds comfort, beauty and value to their homes. With fans enjoying increasing popularity, major manufacturers are addressing different seg-

ments of the market.

Hunter believes that the trend is toward a smaller fan (42 inches), personalized for a specific room. To meet this need, Hunter's newest creation is an eye-catching fan designed for the younger set. The "Cool Revolution" is designed with eye-catching graphics in blue and gray or pink and gray and captures the excitement, vitality and energy of the young.

For the consumer who already has a fan and is buying a second fan, Hunter has added a new look to the Hunter Original. Featuring a more powerful motor, the "Second Cen-

tury Original" is designed with a contemporary body style and five medallion-style blade arms.

For the sophisticated consumer who wants it all, Casablanca has designed a computerized, hand-held remote-control fan that provides comfort at your fingertips. Designed with sleek contemporary lines and an integrated halogen light, it features a temperature-responsive control that adjusts its speed automatically, a security program and an energy saver program.

These new lines of Hunter and Casablanca fans are carried by the Fan Shop, Inc. Honolulu.

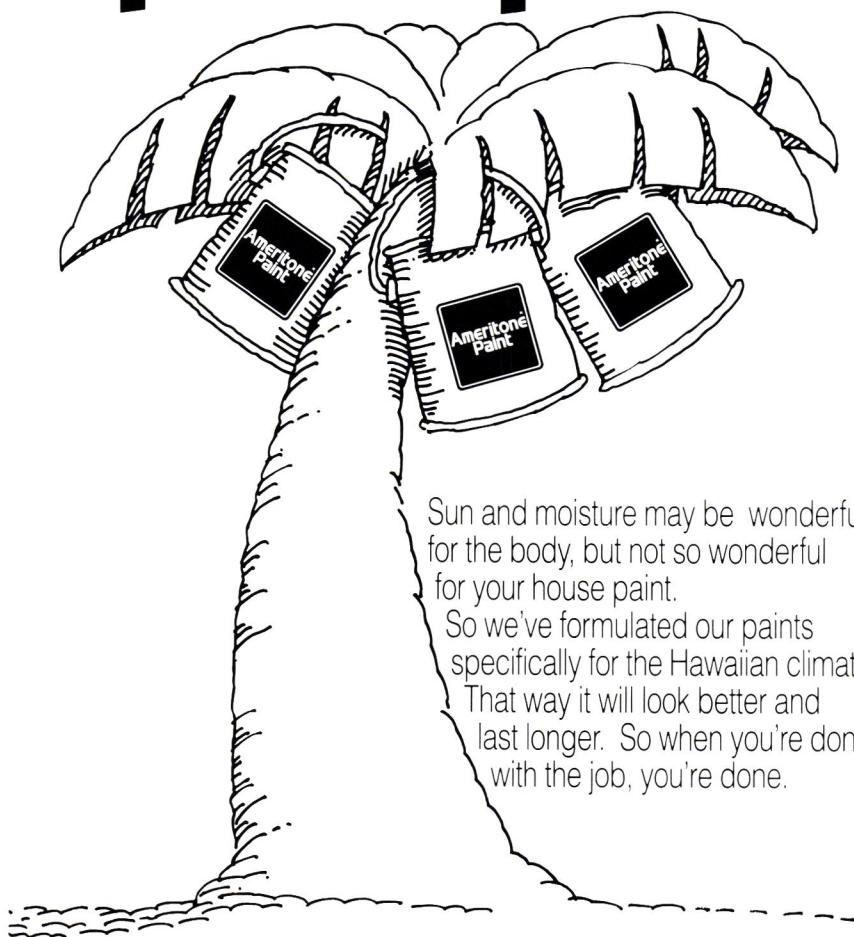
HAPPY HOLIDAYS! From the Staff & Management of PMP



PAUL HAYASHI PHOTO

Employees of PMP Company, Ltd., publisher of Hawaii Architect, wish all a very merry holiday season. Pictured are (back row, left to right), Dean Ontai, Errol Christian, Stanley Harris, Peggi Murchison, Mark Zanetti, Paul Sanders and Leonardo Henobio, Jr. Middle row, Kim Myers, Leneva Stevens, Susan Colletto and Kathy Sanders. Front row, Miki Riker, Kim Fukumoto, Lara Prestfeldt Jaracz, Maria Bracho and Cheryl Ruddach.

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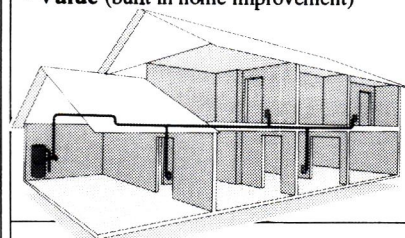
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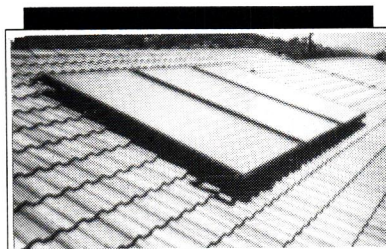
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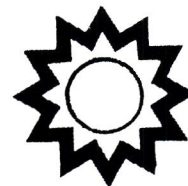
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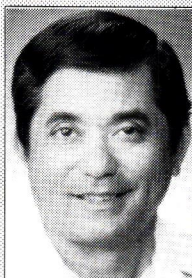


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Council Elects Gima, Holl

Stanley S. Gima, AIA, was elected 1993 president-elect, Hawaii State Council/AIA, at a special meeting of the organization, on Saturday, Nov. 14. Gima was secretary/treasurer in 1992.

As president-elect, Gima will also lead the editorial board of *Hawaii Architect* magazine, replacing Dan Chun, AIA, current president-elect, who



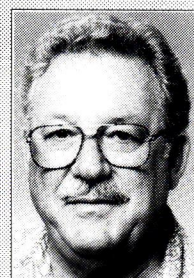
Stanley S. Gima, AIA

will assume duties as State Council President in 1993.

Gima is a principal in Gima Yoshimori Miyabara Deguchi Architects, Inc. with offices on Maui and Oahu.

Also elected to replace Gima as secretary/treasurer of the organization was E. Alan Holl, AIA, CIS, who served as Honolulu Director in the Hawaii State Council in 1992.

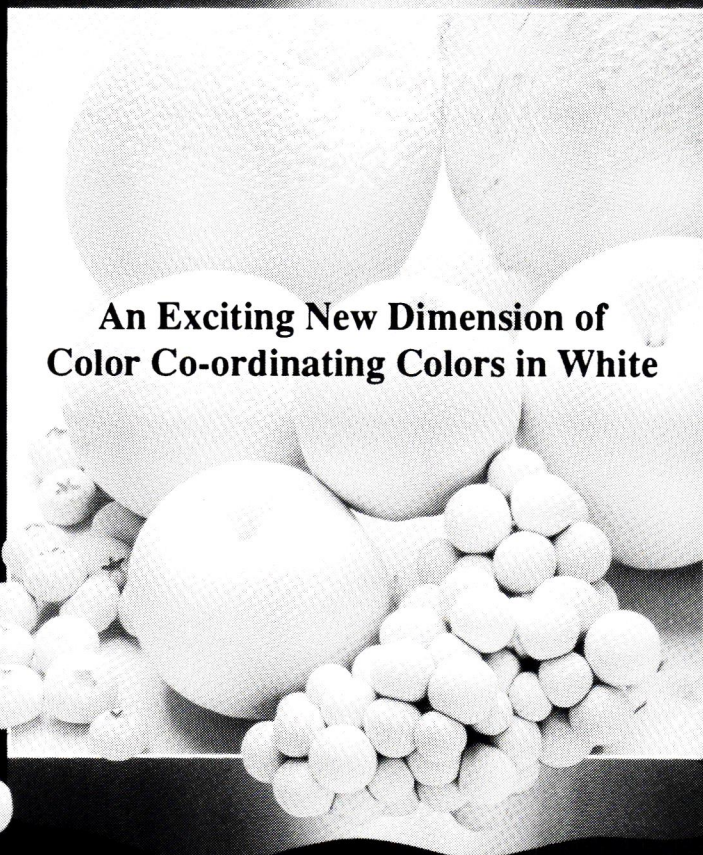
Holl is Director of Project Delivery, Media Five Limited. **HA**



Alan Holl, AIA, CIS

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AIA Chapters Welcome New Members

AIA Members

Honolulu Chapter

Riccardo Ferguson is employed by Design Partners. He earned a bachelor of science from the University of Bridgeport and a master of architecture from the University of Maryland.

Hawaii Island Section

Carolyn Corogin is a principal in the firm Callahan Corogin Architects, Inc., Kailua-Kona. She graduated with a bachelor of design from the University of Florida and earned a master of architecture from the University of Illinois, Chicago Circle. Her hobbies include horseback riding, skiing and golf.

William Edward Callahan is a principal in the firm Callahan Corogin Architects, Inc., Kailua-Kona. He holds a bachelor of design from the University of Florida and a master of architecture from the University of Illinois, Chicago Circle. He lists golf, skiing and swimming among his hobbies.

Associate/Intern Member

Honolulu Chapter

Jonathan P. Kawamura, is employed by Abella International. He earned a bachelor of architecture at the University of Hawaii at Manoa.

He lists swimming, photography and Italian language and culture among his hobbies. **HA**

Affiliate Member

Maui Chapter

Carol Thuro, Thuro Interior Designs, is self-employed. She attended Los Angeles City College, Santa Ana College and Long Beach State from

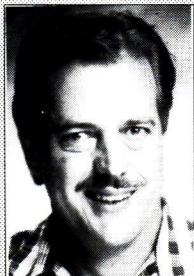


Carol Thuro

which she graduated with a bachelor of arts in interior design. She is active in community service, gardening, refinishing antiques, ceramics and swimming.

AIA Elects Cannon

Thomas R. Cannon, AIA was unanimously elected vice president and 1993 president-elect of the Maui Chapter/AIA. Born in Wailuku and principal of the



Thomas R. Cannon, AIA

design firm Architects Maui, Tom is also a member of the Maui County Cultural Resources Commission, *Hawaii Architect's* editorial board and volunteers time to various other community organizations. **HA**

UH Students Awarded Medals

The School of Architecture at the University of Hawaii at Manoa has announced that Jeffrey Z. Ishida and Xiahong Wu have been awarded the Henry Adams Medal in recognition of their outstanding academic achievement as students in the undergraduate and graduate architecture programs.

Ishida was awarded the Bachelor of Architecture in December, 1991. He currently resides in Pittsburgh,

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Honolulu Advertiser, October 7, 1992

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Pennsylvania, where he is an Architectural Intern in the architectural firm of I.J. Chung, Associates.

Wu was awarded the Master of Architecture in December, 1991. Currently residing in Honolulu, she is an Architectural Intern with AM Partners. Her graduate project was a design proposal for the Center for Chinese Studies at the University of Hawaii at Manoa. She had previously earned the Bachelor of Science in Architecture from South China Institute of Technology (recently renamed South China University of Science and Technology) in

Guanchou, Peoples' Republic of China, in July, 1987.

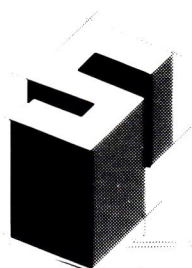
Nominations for Henry Adams medal awards are made by the administration of the school each academic year on the basis of academic performance. Interim Dean Barry John Baker cited Ishida for his outstanding scholarship while a student in the school.

Graduate Chairperson Leighton Liu noted Wu's effort in her attempt to integrate traditional architectural forms and spaces into a modern facility. "She worked closely with the staff of the Chinese Studies Center to

make a realistic appraisal of their needs," said Professor Liu.

Emy Louie, awarded the Bachelor of Architecture degree, and Steven Shelendich, awarded the Master of Architecture degree, were also recognized for academic achievement with a Certificate of Merit.

The Henry Adams Medal and Certificate Program is administered by the AIA and is funded from an endowment that was established by Henry Adams from royalties of the sale of his book, *Mont St. Michel and Chartres*. **HA**



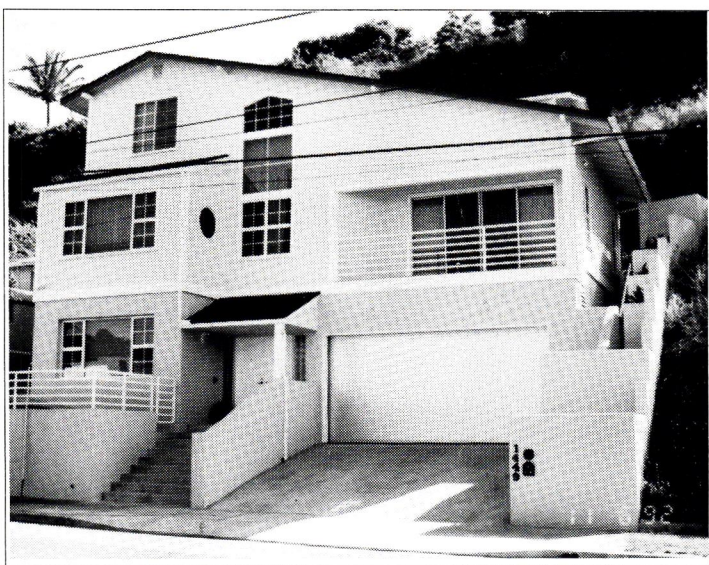
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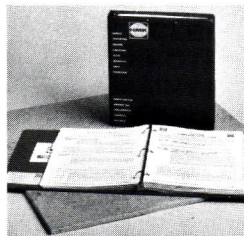
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*I called her back and
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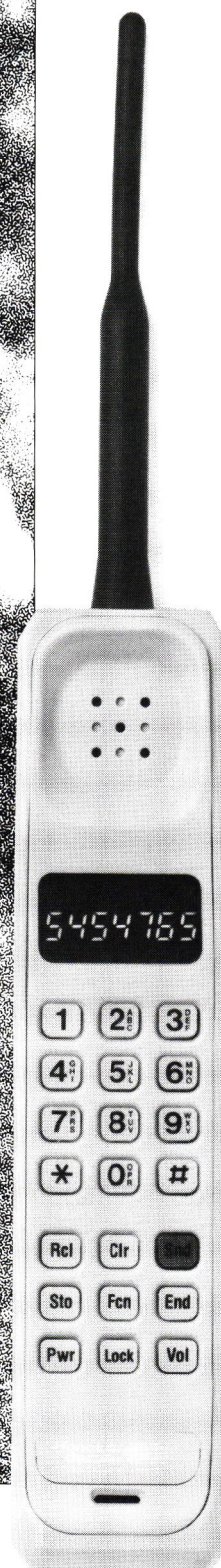
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Firm to Move Into Kapolei Building

The Estate of James Campbell recently signed a lease with Kober/Hanssen/Mitchell Architects, Inc., to occupy a 1,075-square-foot space in the Estate's Kapolei Building.

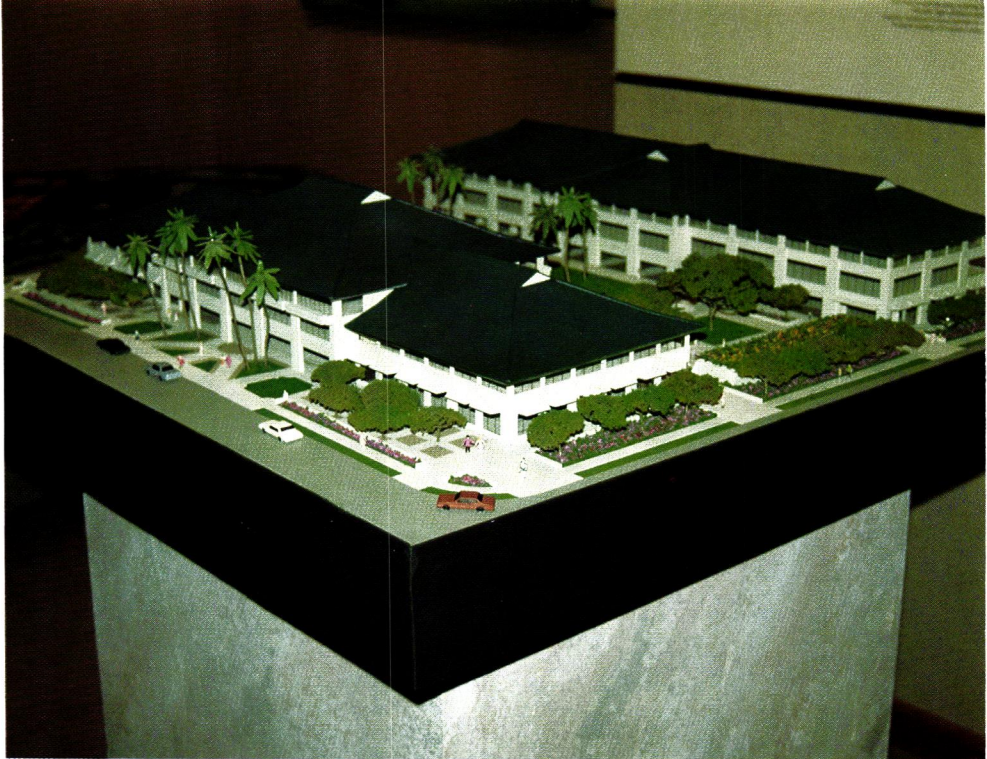
Located at the entry to the new city of Kapolei, the 67,000-square-foot office building started construction in May and will be completed in early 1993. The Kapolei Building is part of Campbell Square, the first office project in Kapolei.

"We are excited about moving into the Kapolei Building," said Kurt Mitchell, principal of the firm, "for a couple of reasons. We take great pride in our architectural design of this office building. We also see a great future in the city of Kapolei and look forward to the parallel growth of our firm with the new community."

Campbell Square is going up in Old Town, a specialty commercial district of Kapolei that is designed to be small scale, low-rise and built in the style of the late 1800s.

"To capture the style and feel of an earlier Hawaii, we designed Campbell Square with a double-hipped roof in muted green terra cotta tile capping a three-story building," explained Mitchell. "The Estate wanted to set an example that would encourage quality design and building in the new city," he continued, "so we painstakingly selected building materials that would reflect a Class A office project."

The exterior of the buildings will be clad in granite, limestone and marble with ceramic tile and copper accents. The lobby interior architecture will complement the exterior design, featuring a teak ceiling, limestone wainscoting, honed slate floors with sisal carpets and rattan furnishings. "The buildings have been designed to augment the traditional feeling that Campbell Estate de-



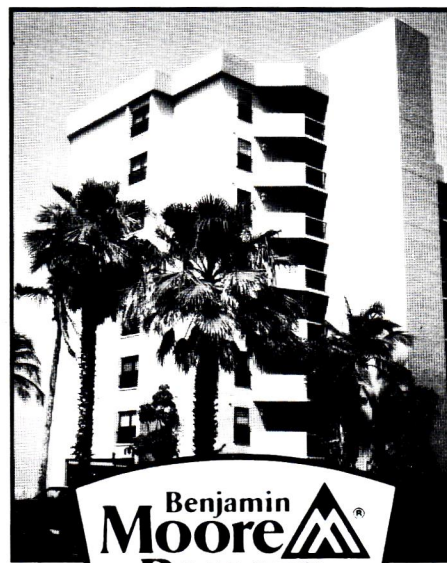
The architectural firm of Kober Hanssen Mitchell Architects, Inc., will move into the Campbell Estate's Kapolei Building in early 1993. The firm designed the building depicted in the mock-up shown above.

sired," Mitchell commented.

While the feeling is traditional, the amenities are modern. Both the James Campbell and Kapolei build-

ings will offer energy efficiency, sophisticated telecommunications and computer systems, as well as provisions for point source recycling. **HA**

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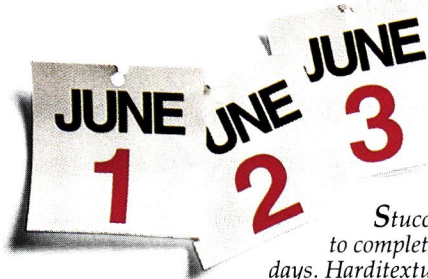
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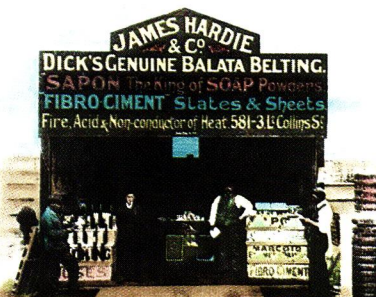
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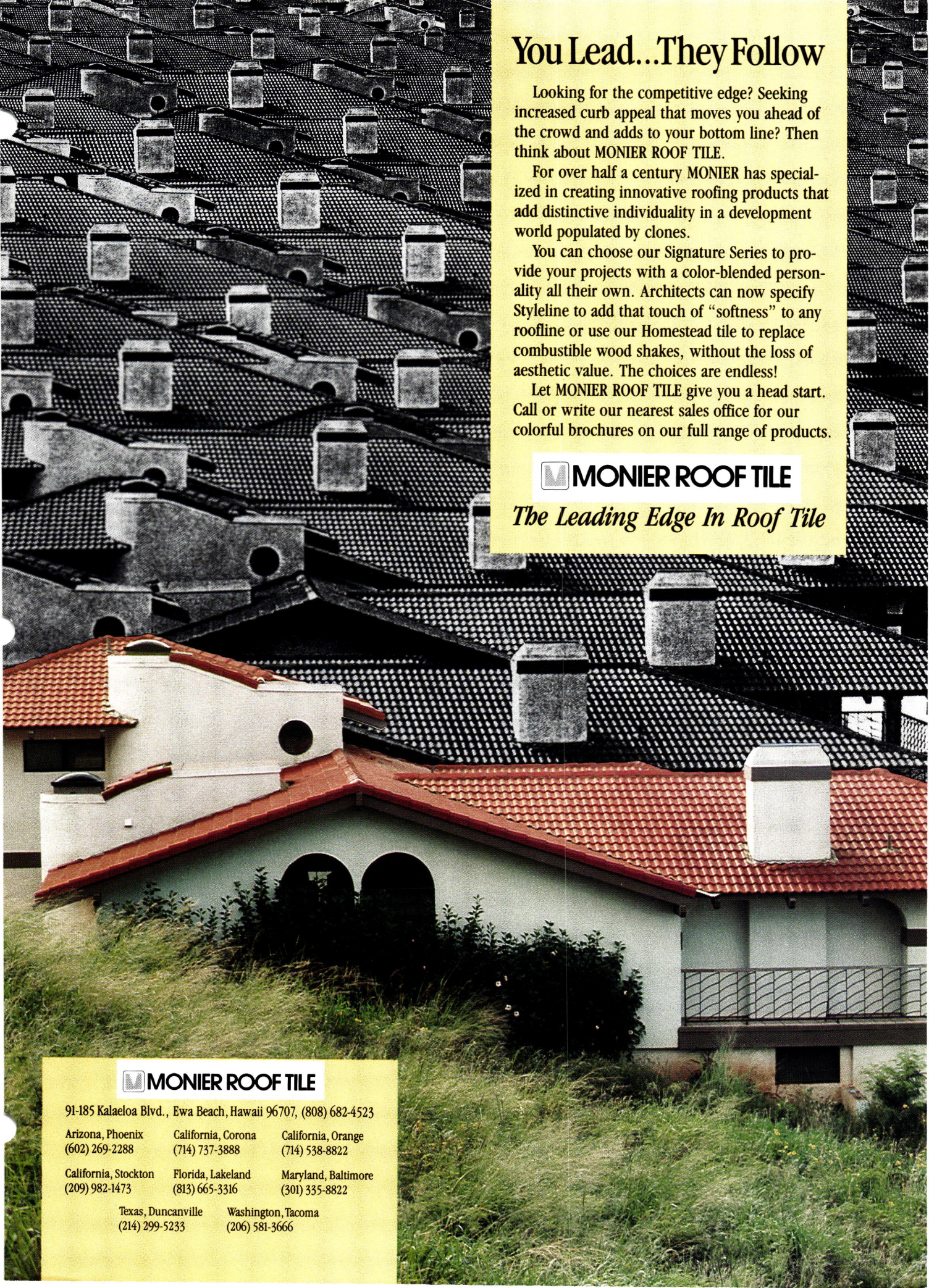
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