

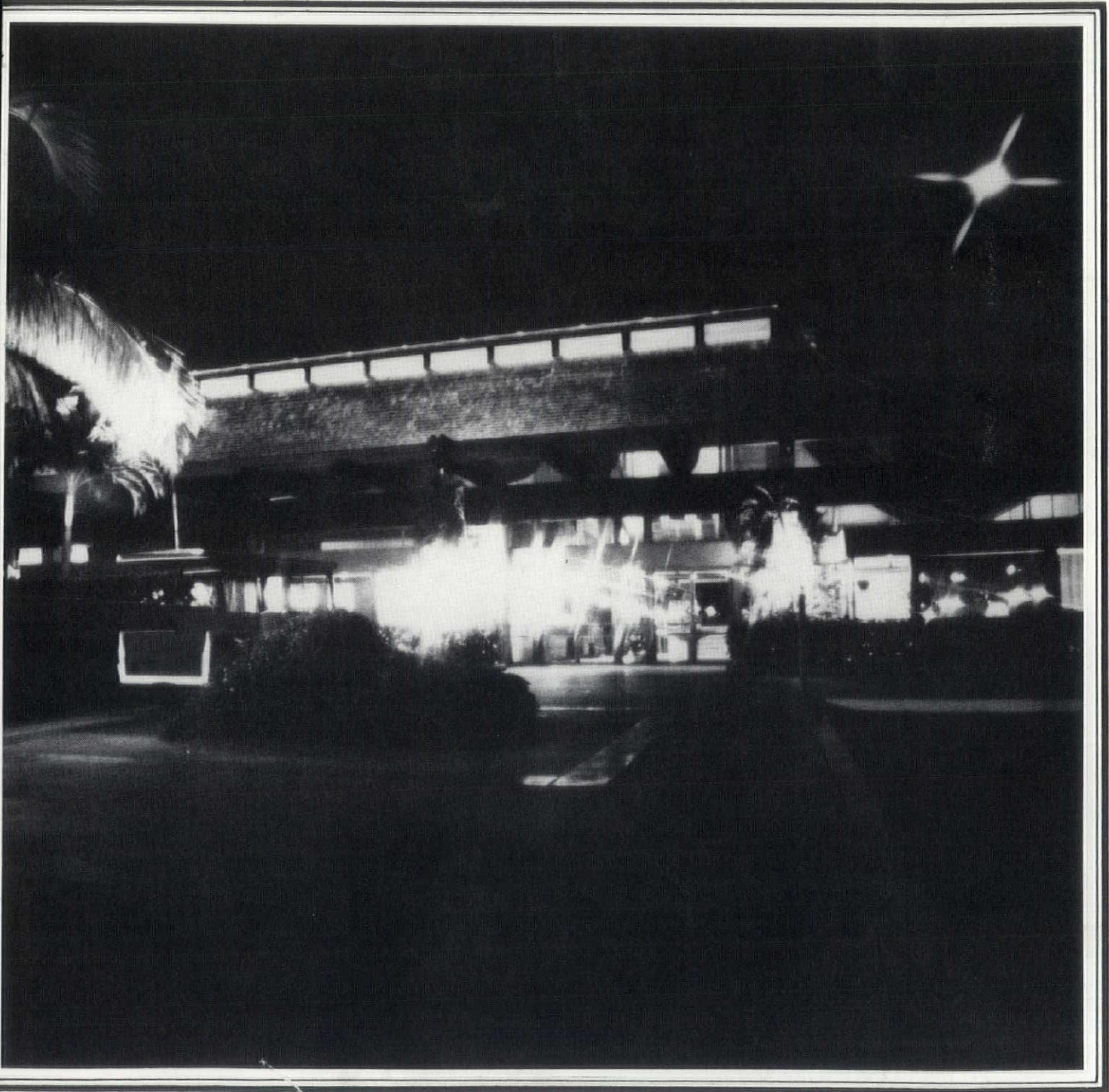
journal  
of the  
hawaii  
society/  
american  
institute  
of  
architects

HA

# HAWAII ARCHITECT

November, 1980

S/AIA Convention '80

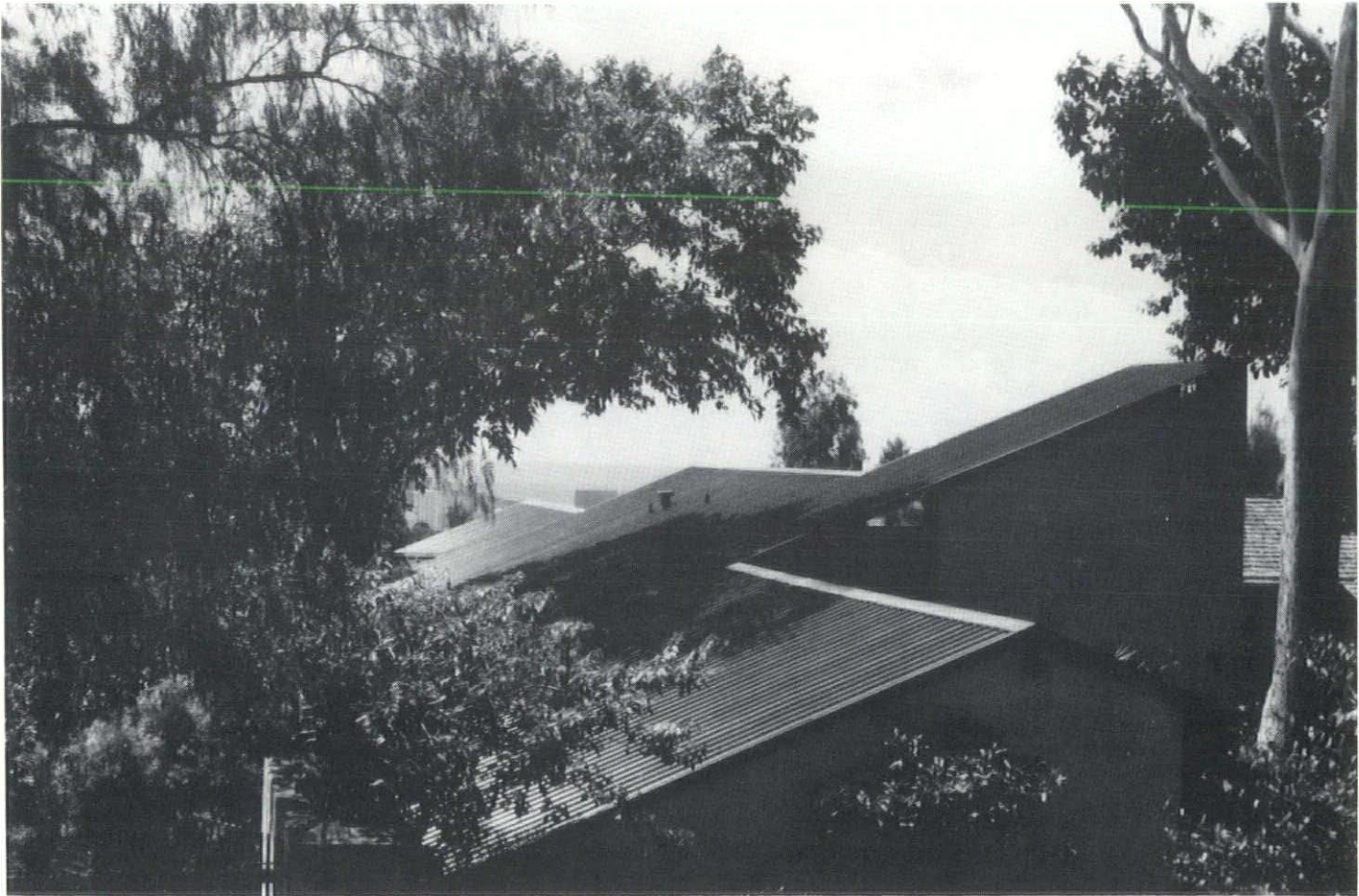




# JORGENSEN METAL ROOFING

- Custom rolled in Hawaii for immediate delivery
- Available in 8 colors and 4 profiles
- Installed easily without specialty trades
- Proven durability in Hawaii
- Competitively priced

For more information and specifications call 836-1611



## EARLE M. JORGENSEN CO.

STEEL • CULVERT • FASTENERS • GALVANIZING • ROLL FORMING  
2655 Waiwai Loop • Honolulu, Hawaii 96820 • (808) 836-1611



# HAWAII ARCHITECT

Volume 9, Number 11

November, 1980

**Hawaii Architect** is a monthly journal of the Hawaii Society/American Institute of Architects. Subscriptions are \$10 per year. Opinions expressed are those of the editors and writers and do not necessarily reflect those of either the Hawaii Society or the AIA.

All correspondence should be directed to:

**Hawaii Society/AIA**  
1192 Fort Street Mall  
Honolulu, Hawaii 96813

Beverly McKeague  
Executive Secretary  
Phone (808) 538-7276

**HS/AIA Officers:**

**President**  
Jack Lipman, AIA

**Vice President/President-Elect**  
Don Chapman, AIA

**Secretary**  
Robert H. Hartman, AIA

**Treasurer**  
Art Weber, AIA

**Directors**  
Tom Culbertson, AIA  
Spencer Leineweber, AIA  
Francis Oda, AIA  
Gordon Ogata, AIA

**Associate Director**  
Leland Onekea

**Hawaii Architect Personnel**  
**Co-Editors**  
Shannon McMonagle  
Glenn E. Mason, AIA

**Contributing Editor**  
Ali Sheybani, APA

**Staff**  
Rob Hale, AIA  
Michael J. Leineweber, AIA  
Curtis Miyamura

**Art Director**  
Jan Olin Nakamura

Published monthly by:

**Crossroads Press, Inc.**

863 Halekauwila Street  
P.O. Box 833  
Honolulu, Hawaii 96808  
Phone (808) 521-0021

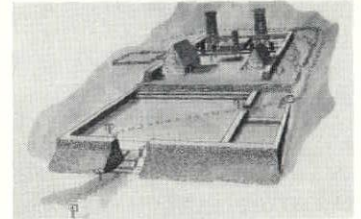
Stephen S. Lent, Publisher

POSTMASTER: Send address changes to the Hawaii Architect, 1192 Fort Street Mall, Honolulu, Hawaii 96813

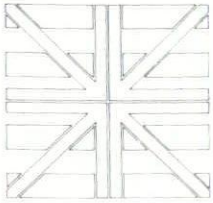
HAWAII ARCHITECT (USPS063170)  
controlled circulation  
postage paid at Honolulu, Hawaii

**Contents:**

<b>Headlines:</b>	HS/AIA 1980 Convention By Jack C. Lipman, AIA	4
<b>Convention '80:</b>	Schedule of Events Makaha Resort November 15 & 16, 1980	6
<b>Convention '80:</b>	Speaker Profiles Robert M. Lawrence, FAIA; Alf E. Werolin, CMC; Roger W. Fonseca, Esq.	8
<b>Convention '80:</b>	A Journey into Makaha's Past By Patrick V. Kirch, Ph.D. Department of Anthropology, Bernice P. Bishop Museum	11
<b>Laurels:</b>	HS/AIA Awards Program Wailea/Planned Residential Resort Community Submitted by Donald Goo, AIA	16
<b>Commentary:</b>	Letters to the Editors By George Parrish, CSI, CCS	18
<b>New Members:</b>	Jeffrey Freitas, Per S. Schjeldsoe, Charles J. Wyse, David M. Yamashita, Richard T. Yoneshige, Hugh J. Farrington, and Lee M. Coleman	20
<b>Photo Feature:</b>	Sandcastles '80 Photos by Shannon McMonagle and Glenn Mason, AIA	22
<b>Kudos:</b>	Transitions Larry E. Helber, Mark B. Hastert, Richard H. Van Horn, Glenn T. Kimura, Michael C. Chu, Gordon W. Bradley, and Thomas P. Papandrew	26
<b>AE Liability:</b>	Drafting Errors— Cause, Cure, and Effect	28
<b>Cover:</b>	Makaha Resort; photo by Peck, Sims, Mueller Inc.	3







# HS/AIA 1980 Convention

Headlines

by JACK C. LIPMAN, AIA  
President, Hawaii Society/AIA

Whether you are a practicing architect with a full office, a consultant with family and clients to satisfy, or a retiree with only health and taxes to concern you, we should all take note as to whether we are accomplishing our respective goals for the year. This Hawaii Architect issue is devoted to one of our primary goals for 1980; the HS/AIA fifth annual State Convention. This is our 54th year as an organized architectural profession in Hawaii. We are certainly very proud of the respect and the image that has been developed over these years, as witnessed by many beautiful buildings, parks and other facilities that have been planned and designed by our colleagues.

Although we have not had the member participation in our monthly meetings to the extent desired so far this year, we are hoping that our state convention theme, "Financial Management," will lure a large representation to the Makaha Resort for this year's annual meeting, November 15 and 16.

As you will see by the detailed program printed here-in, the annual business meeting, per se, will be held on Saturday morning, November 15. All HS/AIA members are invited to this meeting to participate in the election of officers for 1981, resolutions, and bylaws changes. There will be no charge for this portion of the convention program.

Many members (and non-AIA architects) ask, "What does the AIA do to help the local architect?" We are extremely fortunate to present Robert Lawrence, FAIA, national president-elect for 1981, as a speaker at the convention. His presence is of dual advantage to us at this time. First, as a very active national AIA secretary for the past two years he has experienced many of the problems which confront the membership. He will attempt to answer the apparently continuing question, "What does the AIA do for me?"



Jack Lipman, AIA

Second, he will be president in 1982 when Hawaii will host the national AIA convention. This early lead time for our personal coordination in Hawaii will be of tremendous assistance to our overall preparations for this convention being planned for an attendance of 4,000-5,000.

It is of utmost importance that we have all of our reservations and arrangements settled as soon in advance as possible—but no later than November 7—to assure that all of us who can attend will be properly registered. Please call the AIA office if you have not sent in the tear-off portion of the state convention flier.

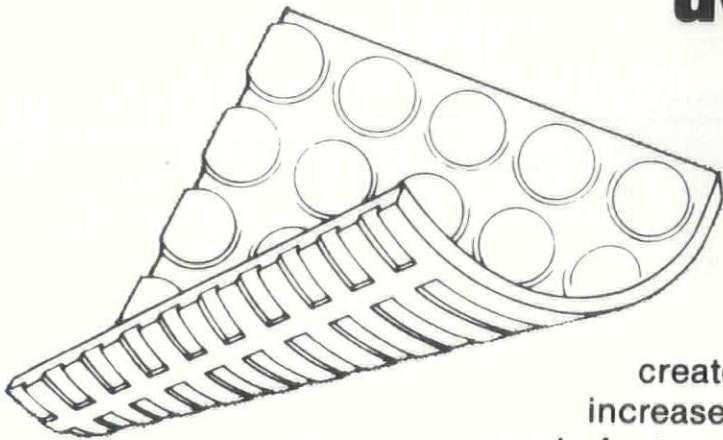
And, above all, let's have some sociability and family fun at Makaha as well as the professional knowledge we will certainly gain through the seminar and workshops. HA



Makaha Resort



# Flexco Radial Rubber Tile is available with **ACOUSTIBAK™**



Radial Rubber tile is made with Acoustibak™ design on the back of tiles. This special design creates dead air space which provides increased insulation qualities and greater underfoot comfort. It reduces traffic noise and lessens breakage of dropped fragile objects.



**FLEXCO™**

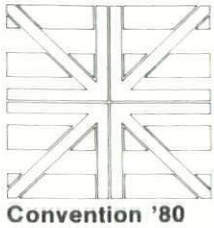
## **RUBBER COVE BASE**

Flex-Cove is manufactured under the most exacting conditions to insure the best possible control of shading. The high grade rubber compound used provides a product of superior flexibility for labor saving installation and to help conceal wall irregularities, and toughness to give long lasting beauty under heavy wear and abuse. Dimensional stability, precise gauging, uniform height, beautiful molded finish and choice colors, make Flex-Cove the first choice of leading architects, builders and contractors. Building owners and maintenance engineers are pleased by its mar resistant beauty and easy maintenance characteristics. Flex-Cove is made in both set-on and flat base (toeless) for use with hard surface or carpet installations.

**Made in 120' rolls to permit installation without dirt catching seams.**

stocked by  **GAF  
HAWAII INC.**





# HS/AIA 1980 Convention Schedule of Events

Makaha Resort  
November 15 & 16, 1980

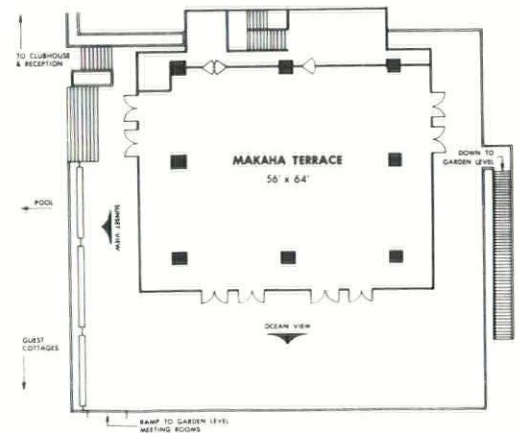
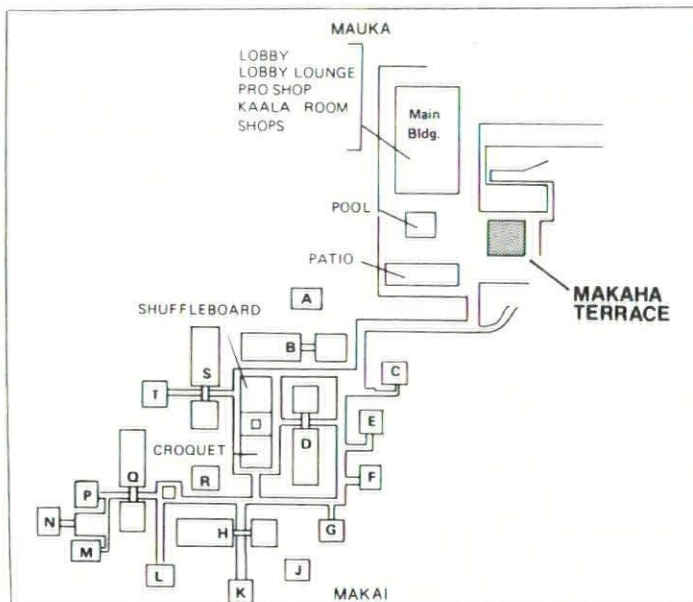
## SCHEDULE OF EVENTS SATURDAY, NOVEMBER 15

- 7:30 a.m. Convention Registration—Makaha Terrace Room  
(Hotel registration at front desk before noon, please)
- 8:30 a.m. Welcome—Jack C. Lipman, President HS/AIA
- 8:45 a.m. Wage & Salary Report—A.E. Werolin, Case & Co., Management Consultants, San Francisco
- 9:45 a.m. HS/AIA Annual Meeting—Makaha Terrace Room  
Resolutions & Bylaws changes  
Election of Officers and Directors
- 11:45 a.m. Break—Move from Makaha Terrace Room to Kaala Room
- Noon Luncheon—Kaala Room.  
Speaker: Robert M. Fonseca, Tax attorney with Torkildson, Katz, Jossem & Loden, Honolulu.  
Subject: New Techniques of Tax Deferral
- 1:30 p.m. Workshop—Makaha Terrace Room  
Subject: Financial Management  
Leader: A.E. Werolin  
There will be a break during this workshop.
- 5:30 p.m. Break
- 6:15 p.m. No-Host Cocktails—Makaha Terrace

- 7:30 p.m. Banquet—Makaha Terrace Room  
Keynote Speaker: Robert M. Lawrence, FAIA, First Vice President, the American Institute of Architects. Mr. Lawrence will be President of the Institute of 1982. His subject will be "Architecture in the 80's." Aloha attire.
- 9:30 p.m. Star-Gazing and No-Host Nightcaps Makaha Terrace  
Relax in the starlight on this beautiful lanai.
- 10:30 p.m. Saturday Program All Pau.

## SUNDAY, NOVEMBER 16

- 6:00 a.m.—Breakfast at your leisure in the coffee shop.
- 11:00 a.m.—Start Tournaments  
Those playing golf, tennis, or volleyball, please check with Leland One-kea, Sports Coordinator for starting times.
- 9:30 a.m. Heiau—Petroglyph Trip  
Please assemble outside Lobby for this trip to see these interesting bits of Hawaii's past.
- 12:00 Noon Check-Out Time For Those Not Playing In Tournaments.  
Spectators check with Front Desk for courtesy rooms.
- 5:00 p.m. Check-Out Time For Those Not Spending Sunday Night At Makaha.  
**ALOHA! HA**





# Ameron HC&D Hawaii's leader in concrete ideas

And we're the **only** company in Hawaii with a complete line of major concrete products. Couple this with consistent quality of our products and you'll see why we have been serving Hawaii's construction needs since 1908.

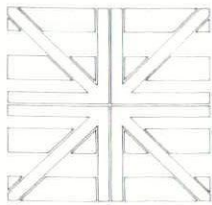


**Ameron**  
HC&D

Oahu 841-0911 • Maui 877-5068

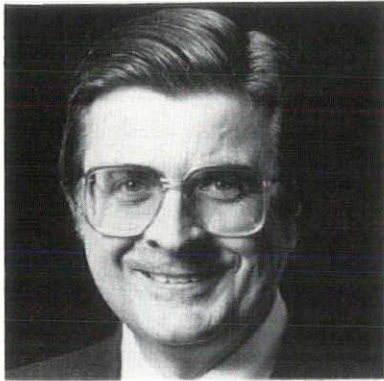
Aggregates/Ready-mix Concrete/Prestressed Concrete/  
Concrete Products/Concrete Pipe/Structural Wire Fabric/Concrete Block





Convention '80

# HS/AIA 1980 Convention Speaker Profiles



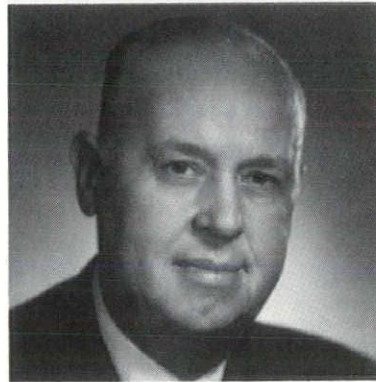
## **ROBERT M. LAWRENCE, FAIA**

Robert M. Lawrence, FAIA, is a principal in the fifteen-member firm of Noftsger, Lawrence, Lawrence & Flesher, Oklahoma City, and is the national AIA president-elect for 1981. He holds bachelor degrees in architecture and architectural engineering from Oklahoma State University. He is also a registered engineer.

Currently serving his second term as secretary of the Institute, Lawrence was a member of the board as AIA director from the Central States Region and served as chairman of the 1976-77 Ethics Task Force, 1976 chairman of the Commission on Professional Practice, and 1976 chairman of the board of PSAE Inc.

Lawrence, a past president of the Oklahoma Chapter and the Oklahoma Council/AIA, was formerly involved on the national level as chairman of the AIA Construction Management Committee, chairman of the AIA/AGC Liaison Commission, and member of the national Committee on Office Practice.

Lawrence has served as president and board member of several organizations including the Kiwanis Club of Oklahoma, Traveler's Aid Society, Baptist Laymen Corporation, and Oklahoma City Beautiful, and as a member of the Chamber of Commerce.



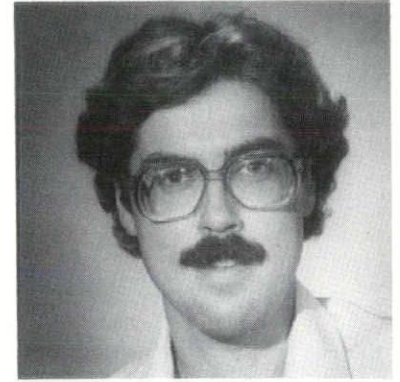
## **ALF E. WEROLIN, CMC**

As a principal with the San Francisco office of Case & Company, an international management consulting firm, Alf Werolin has, over the past twelve years, directed much of his professional time to the problems confronting the architect in the areas of financial management, compensation methods, salary and wage administration, and personnel relations practices.

Along with co-authoring *The Economics of Architectural Practice*, *Profit Planning in Architectural Practice*, and *Methods of Compensation for Architectural Services*, published by The American Institute of Architects, he has participated in numerous profit planning seminars and financial management workshops throughout the country for AIA chapters.

He has conducted several economic studies for statewide architectural and engineering associations and is also engaged in assisting private architectural and engineering firms in solving their organizational and financial problems.

Werolin is a graduate engineer and has a degree in business administration. He is a certified management consultant as elected by the Institute of Management Consultants.



## **ROGER W. FONSECA, ESQ.**

Roger W. Fonseca, Esq., is a partner in the law firm of Torkildson, Katz, Jossem & Loden, concentrating in the areas of corporate taxation and pension and profit sharing.

Fonseca received his J.D. from Yale Law School in 1973, where he was Note and Comment Editor of the Yale Law Journal. He earned his undergraduate degree *summa cum laude* from Occidental College in 1970.

Fonseca is a member of the American Business Association Section on Taxation and the Profit-Sharing Council of America, and has lectured on tax and business law for the University of Hawaii adult education program. FA



# Build up your Restaurant's Reputation with a new Gas Fryer



## CRISPY GAU GEE

Hot and tempting golden fried favorites.



## SHRIMP TEMPURA

The light and lacy delicacy that customers "eat with their eyes."



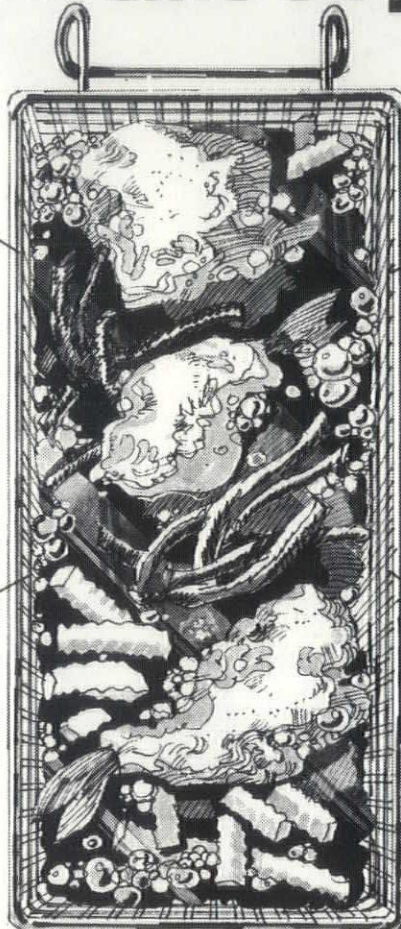
## FRIED CHICKEN

The all-American favorite. Moist and tender inside, golden and crispy outside.



## FISH AND FRIES

A winning combination. Both fried to melt-in-the-mouth perfection.



## It's A Gas!

You'll have standing room only, once customers discover how light, golden and delicious your gas-fried foods are.

And that's just the beginning. With a new Gas Fryer you'll be saving time, money and energy. You'll increase production and sales, too. Here's why:

The new Gas Fryers:

- Give you speedier cooking.
- Have precise temperature control.

- Eliminate food taste transfer.
- Save cooking fat.
- Are easy to drain and clean.
- Come with free inspection and adjustment service.
- Are less expensive to maintain.
- Use less primary energy than electric fryers.

To learn more about Gas Fryers, call The Gas Company. **547-3504**. Or call your neighbor island branch manager.

**The Gas Company**  
A PRI Company





---

# IMUA

BUILDER SERVICES, LTD.

---



Architect: Peter Hsi Associates Inc.

## We're Sticklers for Detail.

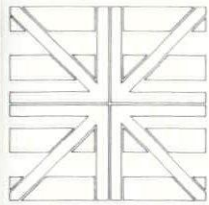
You might call us finicky. We prefer to call it pride in a professional job brought in on time and within budget. But the end result is quality workmanship, the reason Hawaii's leading architects and contractors select IMUA Builders as general contractors to translate their most

important and complicated designs into outstanding interiors like the one above, for Hawaii National Bank. An imaginative and challenging interior, you can almost feel the quality and attention to detail when you enter. That's the IMUA touch. Proof that fine craftsmanship still lives.

---

IMUA Builder Services, Ltd. General Contractors  
855 Ahua Street, Honolulu, Hawaii 96819 • Ph: 833-1811





Convention '80

# HS/AIA 1980 Convention A Journey into Makaha's Past

by PATRICK V. KIRCH, Ph.D.  
Department of Anthropology, Bernice P. Bishop Museum

Only the piercing cry of a wild peacock breaks the eerie silence at Kane'aki, a massive stone temple site situated in the upper Makaha Valley. Dense vegetation surrounds the *heiau* today, hiding from view other vestiges of ancient Hawaiian life in Makaha. Only two centuries ago, the scene at Kane'aki was strikingly different, for this *heiau* reverberated with life—and death. Kane'aki was then the religious and political centerpiece of Makaha. A temple of the *luakini* class, dedicated to Ku, the state god of war, Kane'aki was the scene of impressive rituals, including human sacrifice, which assured the ruling chiefs of continued supernatural support from Ku and the other deities.

Standing upon the upper stone-paved courtyard of the *heiau*, the high chief looked out upon the fertile expanse of his valley realm, then dotted with the thatched huts of field shelters set among productive plots of sweet potatoes, yams, sugar cane, and gourds. Turning his gaze *mauka*, into the narrow upper valley, the *ali'i* could make out the glistening reflections of ponds among the beds of taro,

irrigated by water from Makaha Stream. Such was Makaha in the closing years of the eighteenth century.

Owing to extensive archaeological studies carried out in Makaha from 1968 to 1970, we know more about the valley's prehistory than we do for most other parts of O'ahu. In 1968, Makaha was scheduled for major resort and condominium development by its owners, Capital Investment Co., headed by Chinn Ho and Dean Ho.

Sensing that the valley's past should be recorded for posterity, these men were instrumental in founding the Makaha Historical Society, which in turn contracted with the Bernice P. Bishop Museum for a thorough archaeological and historical study of the valley.

The research at Makaha was unique in that a major land developer—under no force of legislation—not only agreed to, but also actively encouraged archaeological

Continued on Page 12



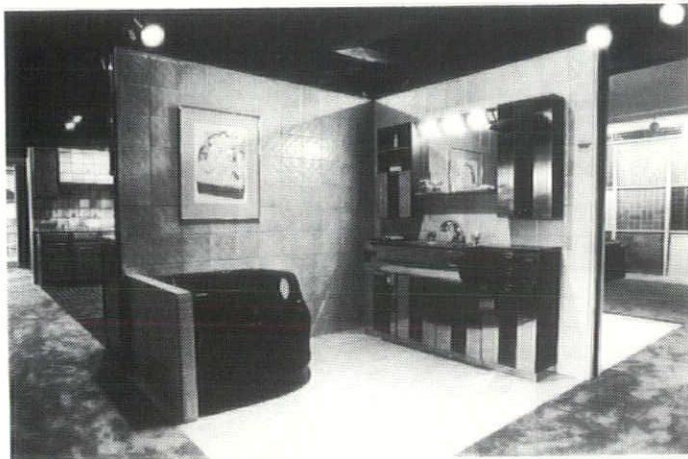
Partially completed pole-and-thatch structures on Kane'aki Heiau platform, during reconstruction in 1970.



Panorama of Site C4-168, a house site and terrace, during excavations in 1969.



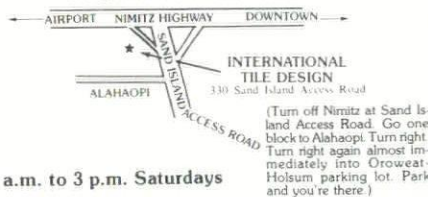
# Idea Center... For Architects, Designers, Developers



New bath? Kitchen? Lanai? Come to the idea center—International Tile Design Hawaii's beautiful new Ceramic Tile showplace—32 full-scale displays. Design help from experienced professionals. Bring your plans. Your choice of Ceramic Tile Marble—plus much, much more—kitchen cabinets, bath fixtures, accessories and hardware, carpeting, wall covering. Beautiful choices—all yours—one source on one floor—one convenient stop.

Open 9 a.m. to 5 p.m. Mondays through Fridays. 9 a.m. to 3 p.m. Saturdays  
INTERNATIONAL TILE DESIGN  
a division of Pacific Terrazzo & Tile Corporation, serving Hawaii since 1959.

Easy to get there  
Just off Nimitz at Sand Island Access Road  
Telephone (808) 847-5959



(Turn off Nimitz at Sand Island Access Road. Go one block to Alahaopi. Turn right. Turn right again almost immediately into Oroweat-Holsum parking lot. Park and you're there.)

# Makaha's Past

Continued from Page 11

studies of the area. Such an enlightened outlook is not often encountered, even a decade later.

The Makaha Valley Historical Project was fortunate to have as its director Professor Roger Green, one of the foremost archaeologists working in Polynesia. Now holder of the chair in prehistory at the University of Auckland, New Zealand, Green in 1968 had recently joined the staff of the Bishop Museum.

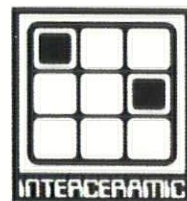
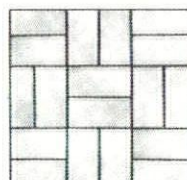
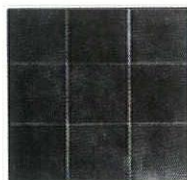
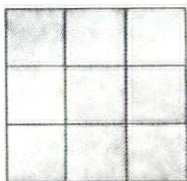
With field experience in Tahiti, Samoa, and New Zealand, Green brought a new perspective to Hawaiian archaeology, and his participation in the Makaha project was a leading force in helping to reshape the direction of Hawaiian archaeological research in the 1970s. Green actively involved a number of younger scholars in his program, and with his training and encouragement some of us—including Dr. Rob Hommon, Dr. Paul Rosen-dahl, and this author—have gone on to direct our own programs in Hawaiian archaeology.

Up until the mid-1960s research in Hawaiian archaeology had stressed either the larger, more impressive stone structures (such as *heiau* and fishponds), or artifact-rich habitation sites, especially rock shelters. While important, an over-emphasis on these kinds of sites had led to an unbalanced picture of ancient Hawaiian life.

In Makaha, Green stressed a holistic approach to archaeology, in which the research team would give equal consideration not only to the larger sites, but to such non-descript remains as ancient garden walls, field shelters, terraces, and all of the other sites that—as a whole—give us a more complete picture of prehistoric life. The aim was to reconstruct, through archaeological findings, the relationships between the ancient inhabi-

# CERAMIC TILE

RETAIL • WHOLESALE  
RESIDENTIAL & COMMERCIAL  
**INTERCERAMIC TILE**  
(4x8 and 8x8)



SKID-resistant surfaces.  
HIGH abrasion resistant glazes.  
VITREOUS body—flat, plugless anchor back for easy installation.  
MINIMUM maintenance.  
EXTERIOR and interior uses.  
EXCELLENT for commercial and residential use.

INTERCERAMIC glazes are resistant to wear under heavy traffic conditions.  
INTERCERAMIC has a hard body, capable of withstanding abuse and rough usage.

SEE US NOW FOR YOUR REQUIREMENTS

*Moreira, Inc.*  
**CERAMIC TILE CENTER**

845-6461

1297 Kaumualii Street  
(Back of Times Kapalama)

Mon.-Fri. 7:30-4 / Sat. 9-1



Continued on Page 14

HAWAII ARCHITECT



# GIVE US HALF YOUR LUNCH HOUR AND WE'LL SHOW YOU HOW TO GET A BETTER COMMUNICATIONS SYSTEM.

Thirty minutes, just half a lunch hour, is all it takes to visit Hawaiian Telephone's Business Sales Center.

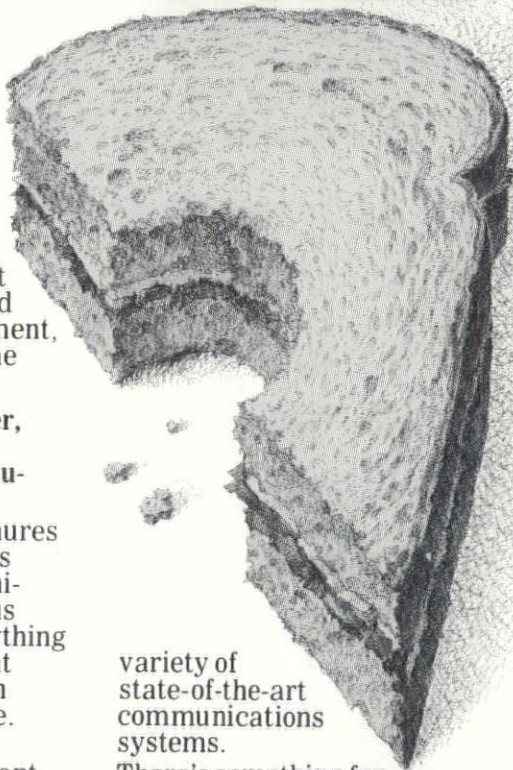
Thirty minutes to find out how one of your most used pieces of business equipment, the telephone, can become one of your most useful.

**The Business Sales Center, Hawaii's only one-stop shopping place for communications systems.**

Instead of studying brochures or making numerous trips to view business communications systems at various locations, we've put everything together at one convenient downtown location. It's an idea whose time has come.

A thoroughly trained Communications Consultant will help you tailor a total communications system to your exact needs. A Communications Consultant is experienced not only in maximizing opportunities through business communication, but in finding ways to make your phone usage more efficient and hassle-free.

**Something for everyone.**  
The Business Sales Center will introduce you to a wide



variety of state-of-the-art communications systems.

There's something for everyone—whether you're a company of 5 or a corporation of 500. Display modules house the latest data terminal equipment, key telephone systems, and electronic PABX plus supplemental services such as automatic answering and building entry control systems.

**What you see is what you get.**  
Every piece of equipment at the Business Sales Center

works—telephone lines, computer switches, operator consoles and telephones. You get a 'hands-on' demonstration so you can compare looks, features, prices and advantages side-by-side.

Anyone in your company involved in the day-to-day operation of your communications system is welcome to come down and participate in a demonstration.

Our Data Communications Group is specially trained to demonstrate the systems in our Data Services display module—everything from teleprinters to data storage units.

**Your time is money.**

Give us thirty minutes of your time, any time during the business day, and we'll give you the Business Sales Center tour. With plenty of time- and money-saving ideas in communications. No pressure, no obligation, of course.

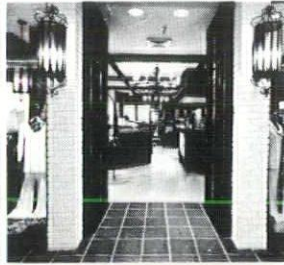
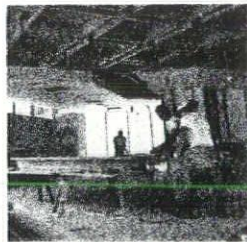
To make an appointment, phone 531-3311. Validated parking is available nearby. Look at it this way. You may have to grab a bite on the run, but isn't that better than letting wasted man-hours take a bite out of your profits?

**Business Sales Center  
HAWAIIAN TELEPHONE**

**GTE**



# The store you design will live up to your expectations



## when we build it !

Mark Christopher • Duty Free Shoppers • Mitsukoshi • Warehouse, Hemmeter Center  
Sandal Shop • Ritz Men's Store • Duty Free, Waikiki, Anchorage • Watumull Bros.  
The Eye Glass Shoppe • Altogether Hawaii • Liberty House • Ritz Department Stores  
Elegant Exposer • Elephant Walk • Far Eastern Department Store • Shanghai Kitchen  
Ironwood Condominium • Kaneohe MCAS Post Exchange • Windsurfer • The Gallery  
Lloyd and Carver • One-Stop Shop, Kapalua • Trade Wind Tours • Palm Beach Shop  
Gucci, Hemmeter Center • Dorothy Jackson, Royal Hawaiian Hotel ... & over 500 others

# BADERS

General Contracting • Architectural Woodwork • Store Fixture Manufacturing  
638 KAKOI STREET (IN SHAFER FLATS), HONOLULU TELEPHONE: 836-2935

## Makaha's Past

Continued from Page 12

tants of Makaha and their total environment.

The picture that emerged after two years of intensive field research is a fascinating one—a story of human ingenuity in designing a technological and economic system capable of supporting a sizable population in relatively marginal terrain. It is a story of social and political change, of the expansion of a chiefly hierarchy that came to dominate the common people who farmed the valley slope. And finally, it is a story of the decline of a vibrant Polynesian society in the face of Western influence.

In the short space here, we can only touch upon a few of the highlights of Makaha's past, from its settlement about A.D. 1100 to the present. For the intellectually curious, the detailed results of the archaeological research have been published in five volumes by the B.P. Bishop Museum.\*

The earliest Polynesian settlers to colonize Hawai'i, about A.D. 500, did not choose Makaha or any of the other dry, leeward areas as habitation sites. Rather they chose to settle in windward areas—like Kane'ohe on O'ahu or Halawa on Moloka'i—where there was ample rainfall to support their vital crops of taro, breadfruit, and other plants brought with them on their long voyages.

By about A.D. 1100, however, these ancestral colonizers had given rise to a sizable population of descendants, numbering perhaps 50,000 to 75,000 persons throughout the Islands. The desirable windward valleys had become crowded, and with population still increasing, small groups began to settle permanently on the drier, leeward coasts. It was about this time that Makaha was first settled.

\*Of particular note is the summary report by Roger Green, *Makaha Before 1880 A.D.*, Pacific Anthropological Records No. 31. Available from Bishop Museum; \$7.



Life in an arid, leeward area like Makaha required new technological developments, especially for agricultural production. Although the leeward fishing grounds were good, the settlers of Makaha needed to adapt their agricultural techniques to the lower, seasonal rainfall and rocky sites of the valley. The archaeological evidence indicates that they were very successful, and that by the fifteenth to sixteenth centuries A.D., the broad lower slopes of Makaha had been converted to a vast dryland agricultural system.

This system is manifested today by thousands of stone mounds, low walls, terraces, and water-diversion structures that demarcate the ancient garden plots. Rather than depend upon taro, which needs a great deal of water, the Makaha farmers concentrated on the hardier sweet potato and yams. Small gullies that carry water during and after rains were dammed, and their flow diverted to irrigate the stony yet fertile slopes.

Dispersed among these garden plots are small stone structures, usually in the shape of a "C" or an "L". When excavated, these structures were found to contain stone-lined fireplaces, and sometimes artifacts such as stone adzes or grindstones. Formerly covered with thatched roofs, these structures were thus the temporary shelters occupied by the dryland farmers during their seasonal cultivation period. Radiocarbon dates from charcoal contained in the ancient fireplaces allow us to date this agricultural system to the period from A.D. 1300 to 1700.

Having managed to create a viable economic system in leeward Makaha, the Hawaiian population there—as elsewhere along the Wai'anae coast—continued to grow. As population increased, and the agricultural system was expanded and intensified, so the need for a political hierarchy to control production increased too. Likewise, the expanded population began to engage in war more frequently with their neighbors, and chiefs played an important role here in organizing and supporting armies of warriors. Thus, the status and power of *ali'i* grew steadily over the several centuries after Maka-

Continued on Page 24

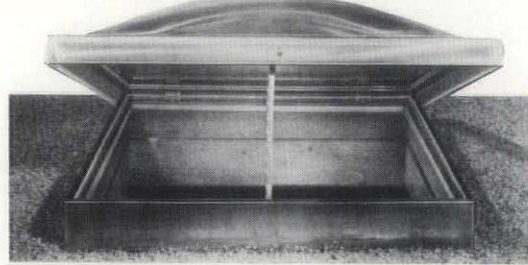


**ENTARAMA**

Considered the BEST by Popular Mechanics Magazine

**SKYLIGHTS**

**THAT  
OPEN!**



**NOW YOU CAN  
SPECIFY THE MOST  
ENERGY-EFFICIENT  
VENTILATING  
SKYLIGHT**

As you know, skylights make light airy rooms and adapt almost anywhere. Besides being an additional source of **natural** light, these units provide **free** air conditioning. Therefore, these units are a **dual energy saver**, rescuing interior baths, poorly ventilated bedrooms, and dark stuffy kitchens. These units are also perfect for patios, garages, and any area where natural lighting and ventilation are desired.

Unique and outstanding features of the VENTARAMA SKYLIGHT are: completely assembled with **DOUBLE** acrylic plexiglas domes, tamper proof fasteners, and are hinged and weather-stripped. These units are constructed with 16 oz. **COPPER** for easy installation on any flat or pitched roof. They are operated with either crank, pole, or motor which comes prewired, including wall switch.

**The Double-Domed Ventilating Skylight  
Available in Clear and Bronze Tones**

Stocked Locally & Distributed Exclusively by

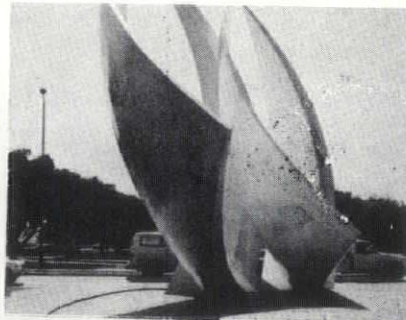
**SKYLIGHTS of HAWAII**

P.O. BOX 347 • 239-6277 • KANEOHE, HI

**Keeping  
Hawaii  
Plastered**



**SAIL SHAPES**

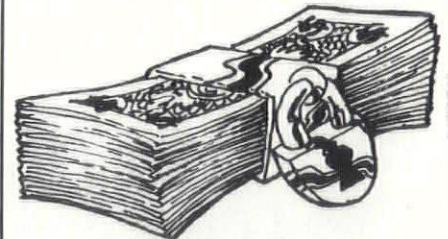


The sail shapes at the Yacht Harbor Towers were achieved through the use of metal lath and plaster. The base was formed of galvanized metal lath wire tied to the welded reinforcing bar shapes followed by a scratch application of portland cement plaster. The ultimate terrazzo finish was accomplished by grinding and polishing a mixture of white cement and marble aggregates.

Call Don Morganello for  
plastering information.  
847-4321

**PACIFIC BUREAU for  
LATHING & PLASTERING**  
905 Umi St. - Rm. 303 Ph. 847-4321

**The Money  
Savers**



**NEED A CAR-TRUCK-  
VAN OR A FLEET  
NOW?**

**OUR TRANSPORTATION  
LEASE SPECIALISTS  
SAVE YOU MONEY!**

**CALL US TODAY  
946-5231**



**TRANS-LEASE HAWAII LTD.**

Subsidiary of Aloha Motors

1801 Kalakaua Ave.

Phone: 946-5231





Laurels

# HS/AIA Awards Program Wailea/Planned Residential Resort Community Community Enrichment Award

Submitted by DONALD GOO, AIA

Wailea has already been recognized by AIA (Celebration of Architecture/1979 Award) for "initiation of an idea, for getting the money, for hiring good architects, for leadership from which something of quality emerges." HS/AIA has also given awards to individual projects within the development: Wailea Town Center/'78, Wailea Tennis Center/'75, Wailea Golf Clubhouse/'73.

The developer has made greater than usual effort to plan and produce a community of exceptionally high standards which will benefit both the planned development and the community at large. Benefits derived by the Maui community as well as economic. Comprehensive planning, standards of excellence, fiscal strength, community consciousness, and control measures have resulted in buildings of superior quality, large open spaces, complete landscaping, preservation of historic sites, improvement of beach accesses, and provision of a variety of recreational and other community facilities. Most importantly, the developer has put into effect the concept of integrating residential and resort communities to the enrichment of both, from cross-cultural exchange and mutual accessibility to improvements and facilities all too frequently available only to one sector or the other.

## GENERAL DESCRIPTION

Wailea is a 1,400-acre planned residential resort community on the western shore of East Maui at the base of Haleakala Crater. Wailea is planned to be a community integrating the short-term resort visitor, the long-term resort visitor and the permanent resident. All improvements are available to visitors, Wailea property owners, and residents outside Wailea. It is intended that Wailea develop into a community of considerable diversity offering a wide range of services attractive to both visitors and permanent residents.

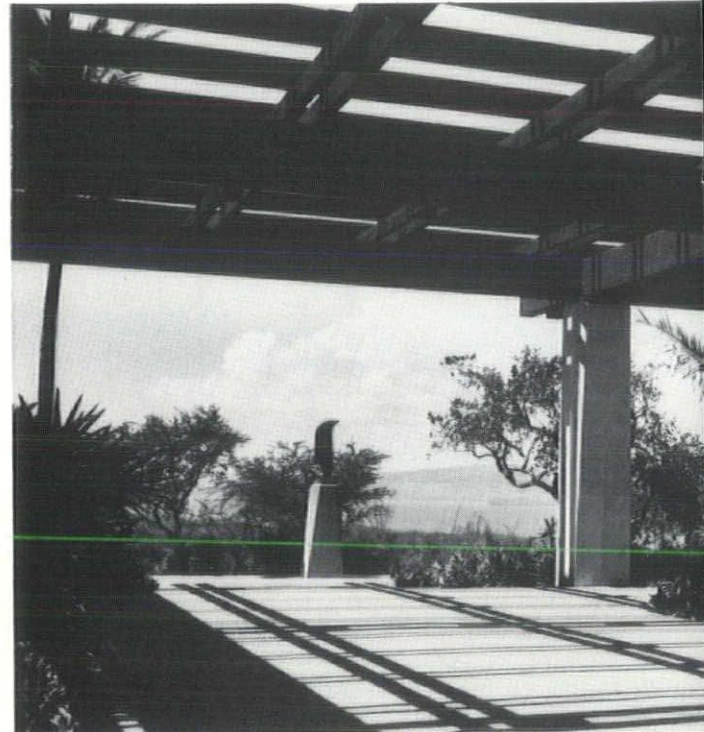
## SITE

Topography varies from shoreline to an approximate 300-foot elevation. The site is crossed by ten major drainage courses carrying water mauka to respective outlets at the shoreline. Length of the site is 5,600 yards (3.18 miles); average width from mauka to makai boundaries is 1,600 yards (.90 miles); area is 1,456 acres. Vegetation consists primarily of kiawe trees, haole koa, undergrowth, indigenous grasses, and beach morning glory.

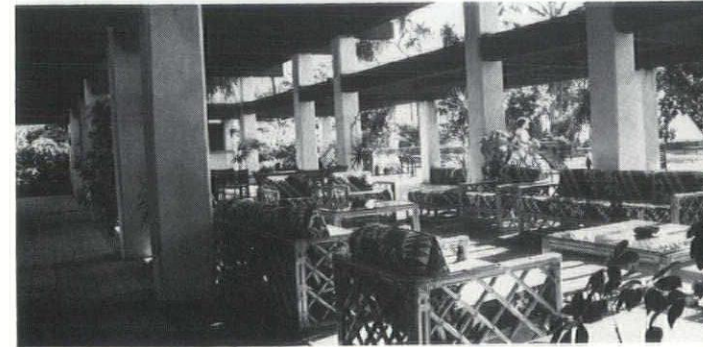
## PLANS AND PROGRESS:

Land area developed to date (exclusive of roads and improvements) is approximately 520 acres, with approximately 936 acres remaining to be developed over the next 15 to 20 years. Completed, now, are three condominium villages, two hotels, two golf courses, eleven tennis courts, a shopping complex, and single family dwellings. Cost to date is approximately \$200 million.

Plans call for the following improvements:



Wailea Golf Clubhouse/Wimberly, Whisenand, Allison, Tong



Wailea Elua/Ossipoff, Snyder, Rowland & Goetz



Wailea Town Center/Edward Sullam & Associates



JURY COMMENT

The award committee recommended the master plan for the Wailea Resort area for this year's Community Enrichment Award because of its outstandingly diverse, yet unified architectural and landscape architectural treatments, its sensitive siting and the respectful enhancement of the natural environment of the shoreline leading to Makena. It commented especially favorably on its approach on the mauka side of the development, bypassing the heavily built-up areas at Kihei and on the entrance road at the shortest distance from Town Center and the Inter-Continental Hotel, while revealing the most beautiful panoramic vistas.



WALTON PHOTOGRAPHY



ROBERT PALMER

- Five public beach accesses
- Master-planned beach front pathway system
- Sidewalk system servicing major roads in the project
- Major access roads within all subdivisions and condominiums
- Landscaped parking lots for all facilities
- Street tree plans for all major roads and arterials
- Underground utilities accessing all developed and to-be-developed areas consisting of water, sewer, electric, telephone, cable T.V.
- Street and pathway lighting in all public areas
- Lush roadside landscaping

PROJECT STATUS DETAIL	Completion Date	Number of Units
Ekahi Village I	1975	
Ekahi Village II	1976	
Ekahi Village III	1977	294
Fairway Homesides I	1975	31 lots
Elua Village 1A	1976	86
Elua Village 1B	1978	
Ekolu Village	1979	148
Elua Village Phase II	1980	66

RECREATIONAL FACILITIES

Blue Gold Course	1971
Wailea Steakhouse	1974
Set Point Restaurant	1975
Tennis Center (11 courts)	1975
Town Center Phase I	1977
Orange Gold Course	1978

NEW FACILITIES/PROJECTS

	Estimated Completion Date
Park Site 68	1980
Wailea Kai Lots	1980
Wailea Alanui Village	1800-81
Tennis Center Expansion	1980-81
Fairway HomesitesII	1981
Elima	1981-82
Hilton Hotel	1982
Town Center Expansion	1982

DEVELOPER:

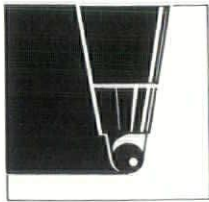
Wailea Development Company  
 822 Bishop Street  
 Honolulu, Hawaii 96813  
 Wendell F. Brooks, Jr., General Manager

FA

EDITOR'S NOTE: The Wailea Elua condominium village by Ossipoff, Snyder, Rowland & Goetz also received an HS/AIA Award for Design Excellence.

Wendell F. Brooks subsequently left Wailea Development Co. to form Chaney, Brooks & Company.





Commentary

# Letter to the Editors

by GEORGE PARRISH, SCI, CCS

In response to the architect who refers to himself as "one of the last of the dinosaurs" and his commentary on specification consultants, I find it hard to believe that anyone could be that out of touch with what is happening in the construction industry. Perhaps the projects he is associated with only utilize the tried and true building materials such as concrete, stone, wood, metal, and bituminous waterproofing materials. If so, his point of view is appropriate.

In the realistic world, however, additional new materials are constantly being added to those tried and true materials. These new materials often provide answers to long unsolved problems in the building profession, are usually more economical, and provide greater freedom in building design.

These materials often do not have a long enough track record to permit specifications to be written from the actual experience of the spec writer (or the architect). These materials require reliance on the manufacturer's data to provide the necessary information to write a comprehensive specification on that material. Too often an architect, who is usually not an experienced spec writer, will simply take his last spec, find some similar material which performs a similar function, and cut and paste that section to make it look like it may work. This is a very dangerous practice.

First, the previous spec may be archaic due to its having been cut and pasted through several generations of specifications. Second, the selected similar material usually will not be in any way similar in composition or installation requirements to the new material even though they perform similar functions. Third, the new material will usually require a specific method of preparation, installation, testing, and/or maintenance to enable the material to perform properly.

To write a comprehensive specification for that specific material then requires time for research and for careful preparation of the specification. With the great numbers of different materials which comprise a construction project today, a large amount of time is required for research and preparation of the specifications. A principal or one of the key people involved in the given project usually is so involved in the design of the building aesthetics or in the production of the draw-

ings that the specifications are almost an afterthought. This usually leaves little time for their preparation, much less research of materials.

A much better approach to the preparation of the specifications is to hire a specifications writing expert, either as an in-house employee or as a consultant. The specifications writer has the time to properly research the materials and put together a comprehensive specification for the project. Involve the spec writer in the project during the early design phase and keep him informed of the developments and design decisions.

Spec writers are not mind readers and specs don't magically just appear when the drawings are printed. It requires the architect, who is after all responsible for these documents, to inform the spec writer of what is required for a project and to maintain an open line of communication throughout the project. If an architect has had poor success with specifications consultants, it is often not the fault of the consultant but rather the fault of the architect who failed to communicate.

With regard to the CSI's program of Certified Construction Specifiers (CCS), it is not intended by CSI to be "an equivalency for an architect." It is intended only as a means by which the competency of a person in the preparation of comprehensive construction specifications can be maintained and improved. To maintain this certification, a specifier must continue in the "professional development in the art and science of preparing written construction documents" by participation in the supervision and/or preparation of construction documents and by participation in continuing education programs to improve his skills. It is encouraging that architects are considering requiring continuing education and improvement of skills to maintain their certification.

GEORGE PARRISH, CSI, CCS

Chief Spec Writer

Chapman Cobeen Desai Sakata, Inc. Architects

FA

"Letter to the Editors" by Elmer E. Botsai, FAIA, *Hawaii Architect*, September, 1980

"Application for Certification Renewal," Construction Specifications Institute, Inc., 1980



**WATERPROOFING**

# START FROM THE BOTTOM WITH VOLCLAY!

**Volclay panels** and accessories save you time and money when it comes to below grade waterproofing.



VOLCLAY TYPE 1 Panels are made of dry VOLCLAY bentonite granules packed in the corrugated flutes of bio-degradable kraft boards. VOLCLAY TYPE 1 Panels are applied to exterior concrete foundation surfaces. After backfilling, decomposition of the kraft occurs, and moisture in the soil converts the granular VOLCLAY core into a water repelling expanded gel barrier which adheres tightly to the concrete.

*Full line stocking distributors*



**Pacific Industrial Distributors**

2139 Kaliawa St./Honolulu, Hawaii 96819/Telephone 847-1977

**WATERPROOFING**



Koa • Ohia • Teak • Keawe • Oak  
Prefinished • Unfinished • Peel-n-Stick  
Plank • Parquet • Endgrain • Strip • Mosaic

## **HARDWOOD FLOORING**

**SANDERS TRADING COMPANY, INC.**

Wholesale Showroom  
1211 Kona Street Honolulu, HI 96814

**Tel. 533-6794**



# HOUSE

# OPEN

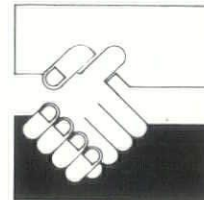
Please come and see us. We are anxious to show off our newly reorganized display rooms, both upstairs and downstairs. Color and material selections should be more convenient than ever.

Formica laminate, asphalt roofing, Olympic stain, Roxbury and other carpets, Bruce hardwood flooring, Corian for counters and walls, acoustical ceilings, Masonite panels, Armstrong resilient floors.

Open 7:30 to 4:15, Monday thru Friday.  
(If you can't visit, do call or write for the new Aloha Mini-Catalog of Products.)

## ALOHA

ALOHA STATE SALES CO., INC.  
2829 AWAALOA STREET  
POST OFFICE BOX 3527  
HONOLULU, 96811/PH. 833-2731



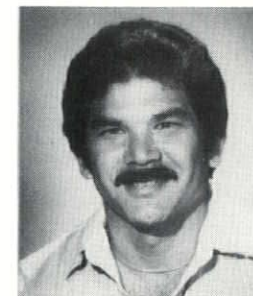
New Members



JEFFREY FREITAS, CPA; Professional Affiliate; Media Five, Ltd. dba Media Five Architects; B.B.A. Gonzaga University.



PER S. SCHJELDSOE; Associate Member; Ossipoff, Snyder, Rowland & Goetz Architects; Diploma Arch. NTH, Norwegian Institute of Technology. Hobbies: sailing, water skiing, diving, skiing, jogging, basketball, volleyball.



CHARLES J. WYSE; AIA Member; Architects Hawaii, Ltd.; B.F.A. University of Hawaii. Hobbies: surfing, skin diving, volleyball, wood working, stained glass.

*Candies,  
Macadamia Nuts,  
Kona Coffee and fine teas.*

Early-Bird Christmas Specials  
Placed before December 1.

Buy 10 boxes; get the 11th free.

Free Oahu Delivery on \$50+ plus purchases.

Purchase by the piece or by the pound.

**FREE TASTE SAMPLES**





## New Members



**DAVID M. YAMASHITA**; AIA Member; Arthur Y. Mori & Associates, Inc.; B. Fine Arts, University of Hawaii. Spouse: Faye. Children: Scott, 11; Jenny, 8.

**RICHARD T. YONESHIGE**; Associate Member; Meyers Detweiler & Associates; B. Arch., University of Hawaii. Spouse: Molly T. Children: Dean, 7 months.

**HUGH J. FARRINGTON**; AIA Member; B.A. and B. Arch., Rhode Island School of Design. Spouse: Deborah.



**LEE M. COLEMAN**; Student Affiliate; University of Hawaii; part-time employee, Lou Fulton, AIA. Hobbies: surfing, music, motocross, skiing, sailing. HA

## Country at Liberty House



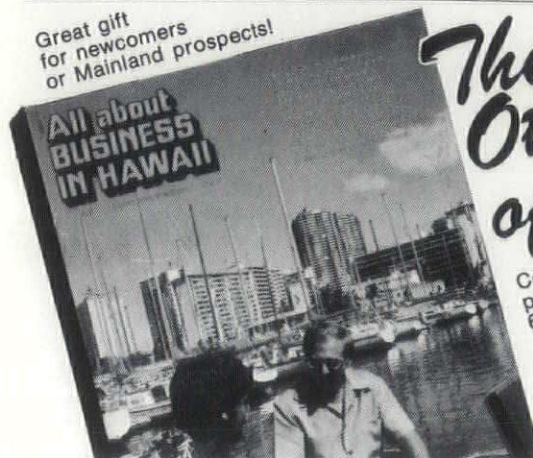
No—it's not Zebra Country . . . Gail Country Series of beautiful 4" x 8" ceramic glazed tile in the #4—"Kentucky" coloration. This tile has the abrasive (non-slip) surface although it comes in smooth as well. This installation is in the top floor new addition of Liberty House's Ala Moana store. RYA Retail Design, Inc., the interior designers, tile installation by Wichert Tile, Ltd.

You and your clients are welcome to visit our showroom to study our complete line of beautiful ceramic tile.

## Central Pacific Supply

2855 Kaihikapu Street (Mapunapuna District)  
Honolulu, Hawaii 96819 • Phone 839-1952

Great gift  
for newcomers  
or Mainland prospects!



## The Other Side of Paradise

Covers economy, culture, taxes, geography, people, and more—in a colorfully illustrated 64 pages for only \$2.95 (post paid).

Make check payable to:

**Crossroads Press, Inc.**  
P.O. Box 833, Honolulu,  
Hawaii 96808



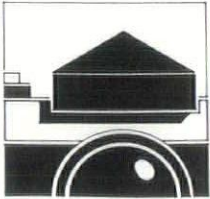
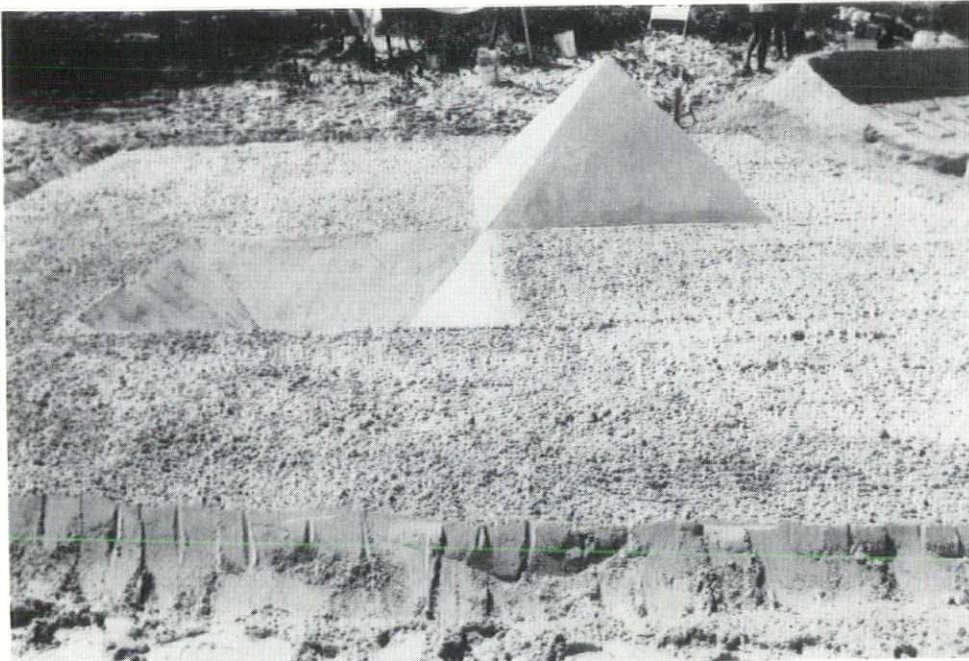


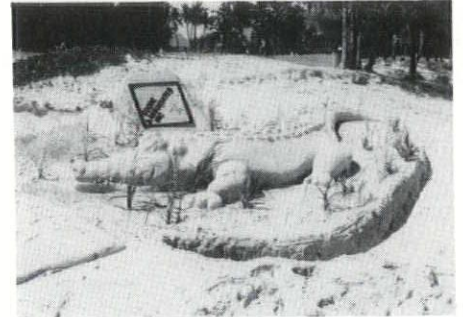
Photo Feature

# Sandcastles '80

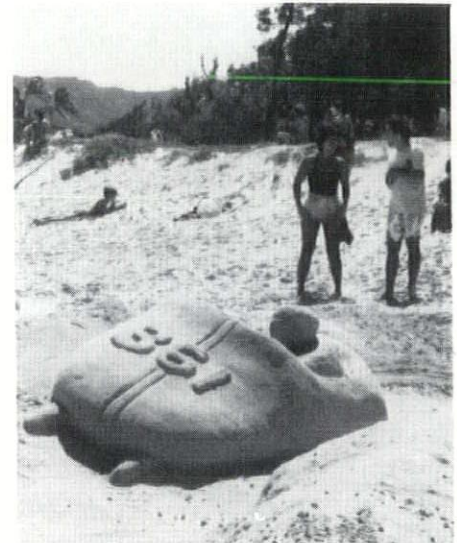
Photos by SHANNON McMONAGLE  
and GLENN MASON, AIA



The Pyramid won Most Beautiful Honors in the Student Division.



The Crocodile, by Boone & Associates, Inc., won Most Beautiful in the Professional Division.



Bobsled won Most Original award in the Student Division.



The Football Field, with a giant diploma waiting at the goal line, won first place in the Open Division.



Eggs by Arch 301-3.



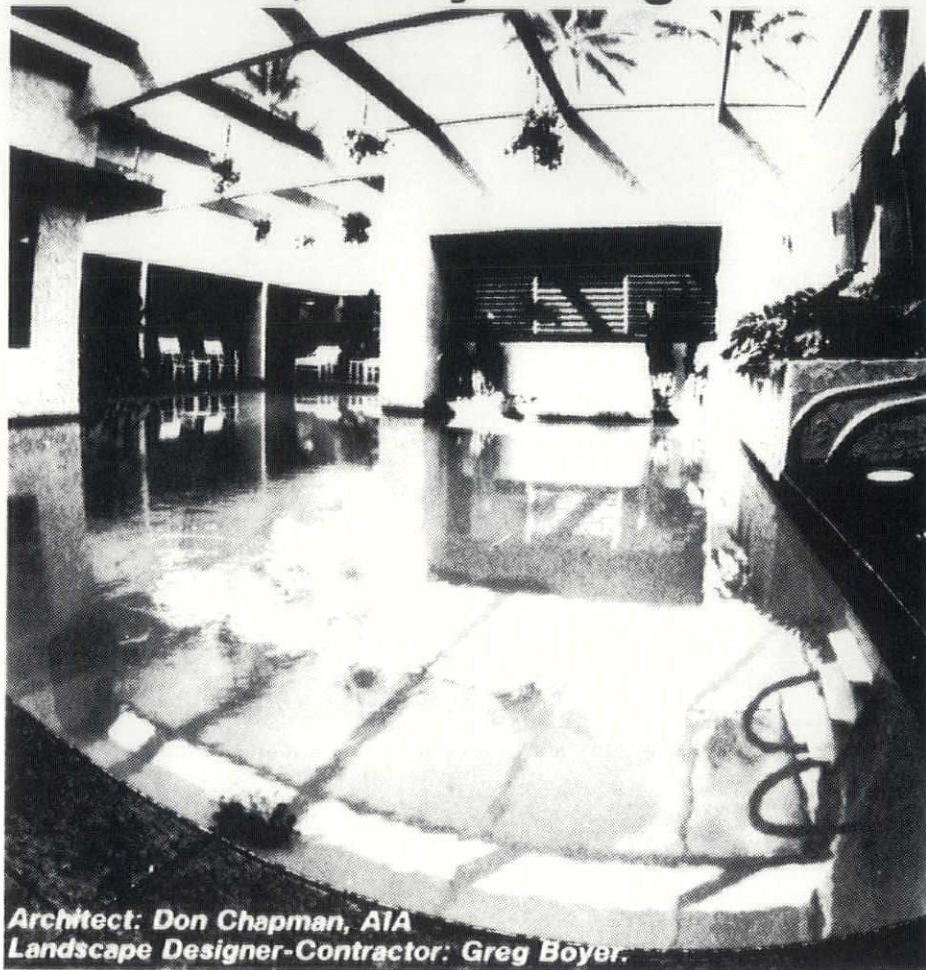
Gene Sontag's relaxin' home . . .

# CERAMIC TILE ALL AROUND OPEN POOL COURTYARD DOES IT

. . . Result: Carefree, easy living.

One-time desert resident and bachelor Gene Sontag is a hard working business man who prefers to leave his cares at his Liquor & Wine Imports establishment and his Sears outlet when working day is done. He believes, too, in easy living. Gene gets just that in the home Architect Don Chapman created for him near the shore in Kailua. And Greg Boyer, landscape designer/contractor, made notable contributions. The home is really beautiful—also carefree . . .

- Ceramic Tile surrounds the big courtyard pool, warmed by the sun and screened over to keep out insects while dispersing rain. Ceramic Tile, as always, is easiest of floors to keep clean. Gene Sontag does it with hose and squeegee. His Sontag method cleans up things in 20 minutes . . .
- Landscape Architect Boyer has used well fertilized soil in planter boxes and hanging baskets to provide plentiful greenery. Plantings are easy care, too, with many including the hanging baskets—watered automatically through small tubes, part



**Architect: Don Chapman, AIA**  
**Landscape Designer-Contractor: Greg Boyer.**

of a timed system. Outside plants especially were selected from among varieties that do well even in salt seaside air.

- Installation of Ceramic

Tile was by Hawaii craftsmen employed by a contractor member of the Hawaii Ceramic Tile, Marble & Terrazzo Industry Promotion Program—the Gene Sontag home with its

beautiful and easy care Ceramic Tile is a demonstration of two notable reasons why Ceramic Tile use in Hawaii continues to grow and grow.

**Hawaii Tile, Marble & Terrazzo Industry Promotional Program**  
**1405 N. King Street, Suite 302, Honolulu, HI 96817, Attention: John P. Brack**  
**(Tel: 845-7713 ask for "Tile")**

Contact any one of these Promotion Program participants:

A-1 Tile Corp. 845-9945  
Atlas Tile Inc. 839-7403  
Leo Cecchetto, Inc. 848-2428  
Classic Tile Corp. 841-6893  
Custom Ceramics 538-3537

Hawaii Tile and Marble 839-5102  
Honolulu Roofing Co. Ltd. 941-4451  
S. Kunishiga Tile 734-3340  
Lani's Tile Co. 235-1144  
Logan Tile Co. 262-5754  
Nan-Cor Tile Company 488-5591

Pacific Terrazzo & Tile Corp. 671-4056  
Pacific Tile Co., Inc. 841-8534  
Sato, Robert Ceramic Tile 841-8811  
Tidy Tile 833-3042  
Wichert Tile Ltd. 955-6631

ARCHITECTS, DESIGNERS, BUILDERS, Please Note  
Every week in advertising in the Honolulu Sunday Star Bulletin & Advertiser  
Hawaii Tile Contractors call special attention to you with this message:

"Building: Remodeling? Redecorating?  
Ask your architect, designer or builder about the beauties and values of Ceramic Tile."



**Ceramic Tile, Marble  
& Terrazzo  
Belong in Hawaii**



# CONCRETE



Chapman, Cobeen, Desai, Sakata, Inc., Architects / Richard M. Libbey Inc., Engineers / S. & M. Sakamoto Inc., Contractor

## As Lasting As Memory

The Arizona Memorial Visitor Center at Pearl Harbor will host many millions for many years to come. Its beautiful lines of precast concrete strength reflect a muted reverence.

Precast concrete, as other uses of this ageless material, lends itself to a wide range of highly creative and imaginative uses. For useful information on concrete applications of every kind, simply call the CCPI Research Library, 833-1882.



CEMENT AND CONCRETE PRODUCTS INDUSTRY OF HAWAII  
Suite 1110 / Control Data Building / 2828 Paa Street / Honolulu, Hawaii 96819

## If you do business in Hawaii . . .

and want to keep track of your clients, or need to glance at building permits, tax liens, foreclosures, public hearings, real estate trans-

actions or any of a number of scintillating bits of information



PACIFIC  
BUSINESS  
NEWS

. . . we have news for you

For information call 521-0021.

## Makaha's Past

Continued from Page 15

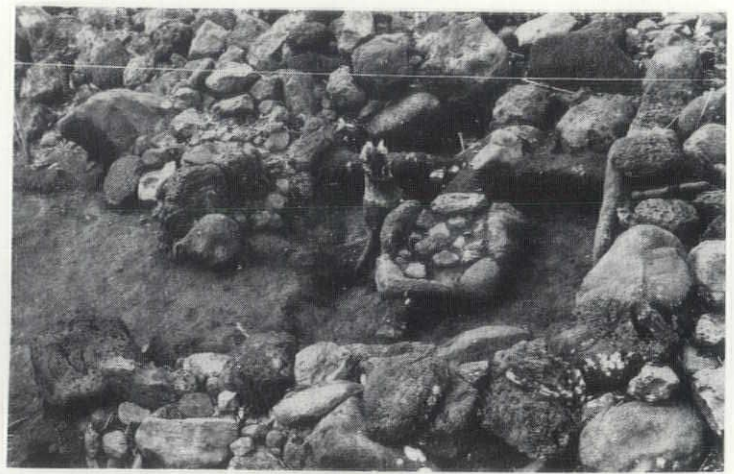
ha's first settlement.

This development of the chiefly class is reflected in Makaha's religious sites or *heiau*, and especially in the temple of Kane'aki. *Heiau* were constructed at the behest of a chief, and it was on the *heiau* platform that the chief performed the sacred rituals assuring him of supernatural support. There were many classes of *heiau* in ancient Hawai'i, and the largest and most important of these were the *luakini*, temples of human sacrifice that could be built by and for only the highest chiefs of the land. Constructed of hundreds of thousands of stones, these massive platforms required the work of many laborers, and only a great chief could mobilize such a work force.

Kane'aki in the late eighteenth century was such a *luakini* temple. Excavations into the stone platform, however, revealed that the temple had been constructed in six stages, over a period of about 275 years. It did not begin as a massive *luakini*, but rather as a small terraced *heiau* of the type called *hale-o-Lono*, dedicated to Lono, the god of agriculture. As the chiefs of Makaha gained in power, they added to the temple platform, expanding its size. At the sixth and final stage of construction, Kane'aki was converted to a *luakini*, its rituals now those of Ku—god of war. This final phase resulted from the conquest of Makaha by a powerful chief of the realm—an *ali'i 'ai moku* ("chief who ate the district"). The stones are mute on this point, but there is no doubt that Makaha had come fully under the sway of a powerful lord.

The last two hundred years of Makaha's story mirrors those important events that shaped the modern history of Hawai'i. By the early 1800s, disease and the attraction of port towns such as Honolulu led to the depopulation of rural hinterlands, including Makaha. During





Excavations at a C-shaped house site, 1968. Left, before excavation; right, after excavation, with fireplace exposed in center.

the Great Mahele of 1848, the Lands of Makaha were granted to the high chief Paki. Upon Paki's death in 1855, the valley was sold to the firm of James Robinson & Company, who engaged in ranching and coffee growing, among other ventures. By the 1880s the sugar rush was on, with plantations expanding rapidly. The Waianae Company

attempted sugar growing in Makaha, but its efforts were frustrated by insufficient water. The *haole* planters were unable to make Makaha into the kind of productive agricultural system that it had been only a century earlier, before European contact.

Today, for most residents of Hawai'i, Makaha is associated with

surfing, golfing, and resorts. But the valley still holds the archaeological remains of the Hawaiians who lived there long before the rest of the world knew of the existence of these Islands. One has only to come upon the massive wall of Kane'aki Heiau, restored in 1970, to gain some appreciation for the rich history of the Makaha Valley. ♪



## Where to go For BUSINESS DINING



---

### RESTAURANTS & CATERING




**Coffee Tavern and  
Cheerio Room**

Breakfast - Lunch - Cocktails  
in the heart of Downtown.

<p>M's Coffee Tavern 6:30-2 P.M.</p>	<p>Cheerio Room OPEN 9:00 A.M.</p>
--	--

MERCHANT

FORT		BISHOP
QUEEN		

"No Sir, there is nothing which has yet been contrived by men, by which so much happiness is produced, as by a good tavern or inn."  
*Samuel Johnson*

*Go public for lunch,  
dinner & Sunday brunch.*

At Dickens Pub the dining, drinks, decor are all superlatively British. Tiffin, 11 a.m. - 10 p.m., Toddy till 1 a.m., any business day. Telephone at every table. Sunday brunch, 10 a.m. to 3 p.m. Validated parking.

## DICKENS

1221 Kapiolani Boulevard Honolulu 531-2727

CHINESE AND AMERICAN FOOD

*Coral Reef*

Restaurant and lounge

Mauka side next to Woolwerth  
1259 ALA MOANA CENTER

Open from 11 AM to 9:30 PM  
Sundays 11 AM to 3 PM  
Phone: 949-3500

Now Serving  
Hot and Spicy  
Dishes for Dinner

## BYRON II

A GREAT WATERING HOLE—Elegant  
Atmosphere, Bountiful Cocktails,  
Superb Food and Excellent Service

Luncheons, 11:00-3:00  
Dinners served from 5 p.m.  
Cocktails served from 10 a.m.  
1259 ALA MOANA CENTER  
TELEPHONE 949-8855



OCEANSIDE IN THE ALCOVE BY THE TRAVOLATOR





Kudos

# Transitions

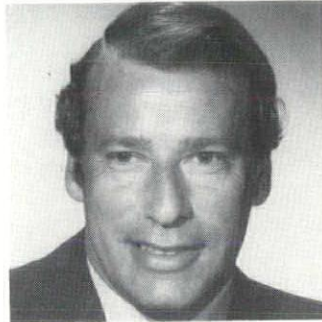
## NEW PLANNING CONSULTING FIRM

Larry E. Helber and Mark B. Hastert have announced the formation of Helber, Hastert, Van Horn & Kimura Planners, a planning consulting firm in Honolulu. Principals include Helber, Hastert, Richard H. Van Horn and Glenn T. Kimura.

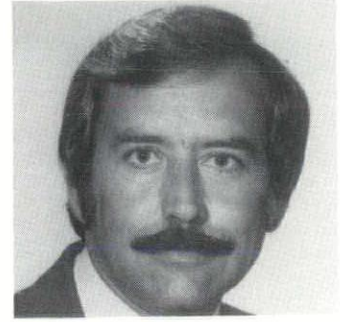
All four were formerly associated with the Honolulu consulting firm Belt, Collins Associates, a division of Lyon Associates, Inc.

The firm will offer a full range of physical and environmental planning services including resort master planning, urban and regional planning, site analysis and planning, Environmental Impact Statement (EIS) preparation, and assistance in government approvals.

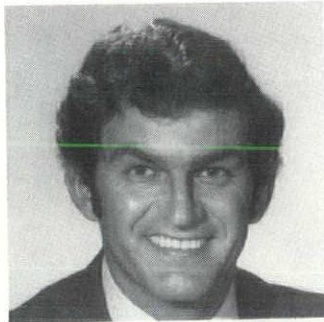
The new firm began operations in early October from offices at 2222 Kalakaua Avenue, Suite 1507.



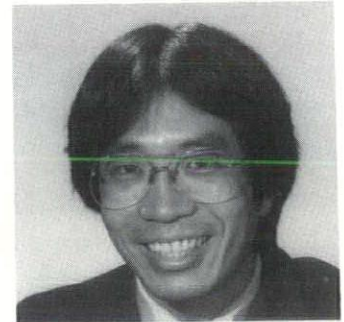
Helber



Hastert



Van Horn



Kimura



Bradley

## NEW ASSIGNMENTS AT BELT, COLLINS & ASSOCIATES

Gordon W. Bradley has been appointed general manager of the Belt, Collins & Associates division of Lyon Associates, Inc., and Thomas P. Papandrew has been named director of planning. Paul M. Hirota will continue to serve as vice president and chief engineer.

Architect Bradley joined the firm in 1978 as assistant to the president and project manager. He has worked in Hawaii since 1951 except for 1971-73, when he served as director of public works for the Trust Territory of the Pacific Islands.

Registered as both an architect and landscape architect, Papandrew has been a planner with Belt, Collins for more than ten years. He currently serves on the board of trustees of the American Society of Landscape Architects (ASLA).



Chu

## MICHAEL CHU APPOINTED

Michael S. Chu has been appointed managing director for Phillips, Brandt, Reddick & Associates (Hawaii), Inc., a land planning and landscape architecture firm with offices in San Francisco, Newport Beach, and Denver. As managing director, Chu will oversee all projects for the Honolulu office. **HA**



Papandrew



Photography by

**GIL GILBERT**

# colorprints, inc.

324 Kamani Street / Honolulu, Hawaii 96813 / Phone 533-2836

**The photographer can be proud of his work—and ours!  
We can enhance your architectural interior design ideas  
with the following services.**

- **Copies of Color Art** — We specialize in making crisp, clear and evenly illuminated copies from flat color art work and paintings. They are obtainable as negatives, prints, projection slides and reproduction quality transparencies for separations.
- **Large scana murals, on fabrics**
- **Mural size photographic prints, color or b/w**
- **Large transparencies for light box**
- **Custom color prints for your portfolio or sales book**
- **35 MM slide duplicates for presentations**
- **Ektachrome processing in 3 hours**

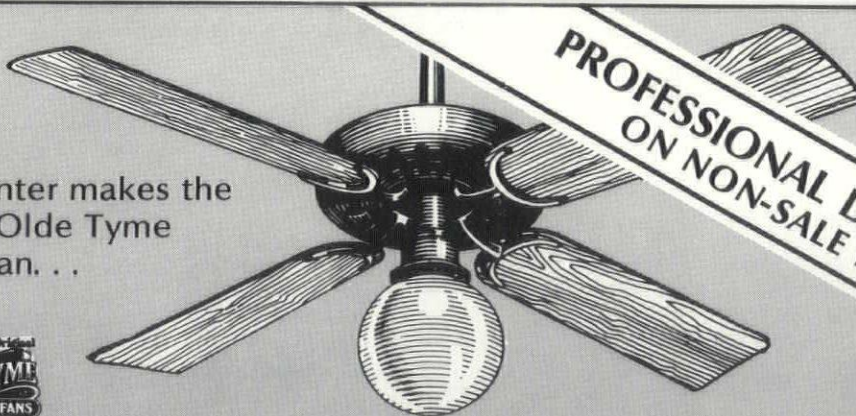


For all your color needs call:

## 533-2836

ASK FOR  
**COLOR  
PROCESSING**  
BY **Kodak**

Only Hunter makes the  
Original Olde Tyme  
Ceiling Fan. . .



**PROFESSIONAL DISCOUNTS  
ON NON-SALE ITEMS**

## Available in Hawaii at House of Light!

Now that thermostats must be set at 78°, your business needs a cool idea. On the power needed for one light bulb. Hunter ceiling fans can make your customers and employees feel 70° comfort at a 78° thermostat setting. And

in winter, Hunter fans distribute warm air evenly to save on heating costs. All of this means increased productivity, comfortable customers, and profits for you. Hunter offers a wide variety of styles, finishes, and options.

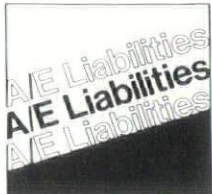


**HOUSE OF LIGHT**  
AND UNIQUE ANTIQUE REPRODUCTIONS



1440 Kapiolani Blvd. • Phone 946-1661 • Shop Mon.-Fri. 10am-8pm, Sat. 10am-5:30pm





# Drafting Errors— Cause, Cure, and Effect

## WHAT HAPPENED

Faced with the prospect of great monetary loss unless his project was completed sooner than originally planned, an owner-client prevailed upon the A/E firm to help him finish on time. The A/E agreed to try. By working on an accelerated schedule including considerable overtime at authorized by the owner, the design drawings and specifications were rushed to completion, bids were taken and a construction contract awarded.

Soon after construction began it was discovered that many sections of air-conditioning ductwork were not designed to be insulated. Corrections to the drawings were quickly made and a Change Order

issued. However, the contractor's quotation for the additional work was considered much too high by the owner.

The contractor proceeded under protest to provide the missing insulation, but filed a claim for the extra amount he contended was due. An arbitration hearing followed and the contractor was awarded most of his claim. The owner then brought suit against the A/E to recoup his alleged loss.

Investigation by the A/E to determine the reason for the omission showed that a drafting employee had been instructed by his supervisor to erase certain dashed lines indicating *exterior* duct insulation and in lieu of the lines removed, to

add other dashed lines symbolizing *interior* insulation. Because there were substantial amounts of both types of insulation required, it had been decided to use dashed line drawing symbols rather than to describe in the specifications which ducts were to have which type of insulation.

The draftsman failed to add the interior dashed lines after removing the exterior dashed lines. Because the draftsman had incorrectly circled the change with a colored pencil to indicate he had completed the change as instructed, the person assigned to check the drawing overlooked the omission.

## RESULT

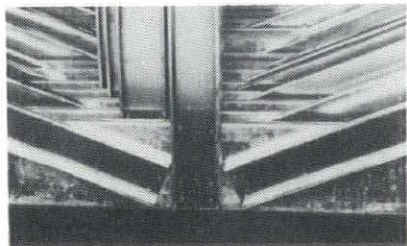
The case was tried and the court determined that most of the cost the owner incurred would have been a required expenditure in any event in order to properly insulate the ducts and obtain the required end result. However, the court did award the owner amounts to cover other costs incurred through delay and other related costs the court concluded were caused by the omission by the A/E.

## LESSON LEARNED

One point seems clear: the unexpectedly accelerated schedule, to achieve added benefits for the owner, created an environment that encouraged the likelihood of an omission. Mistakes are much more likely to occur when work is done in a hurry.

This case illustrates a further point of equal or even greater importance. The quality of effort of the lowest paid worker is often just as important as that of the highest paid. A casual or "Who cares?" attitude by a trainee draftsman can be just as damaging at times as a neglectful attitude by a top principal. Check and double-check methods are set up with the hope that

## MANUFACTURED IN HAWAII



- Light-gauge steel trusses
- Load-bearing studs and joists
- From single-story residential to 4-5 story condominiums and office buildings
- Cost competitive with other framing systems
- Quick Service!
- Trusses up to 40-foot spans
- Local Technical Design Assistance

**CALL FOR FREE BROCHURE — NO OBLIGATION  
845-9311**

Ask for Jim Nicoli or George White



Galvanized metal studs • Track • Trusses • Joists

Baker Way/Sand Island

845-9311





# Where to go For BUSINESS DINING



## RESTAURANTS & CATERING

### Columbia Inn

645 KAPIOLANI BLVD.  
"TOP OF THE BOULEVARD"

Restaurant-Bar-Coffee Shop

OPEN 24 HRS.  
(except the wee hours of Monday morning)



### Le Bon Restaurant



Serving  
**DINNER**  
at MODERATE PRICES  
from 6 P.M. every  
evening our waiters and  
waitresses—  
"SING FOR YOUR SUPPER."

DINERS • AMERICAN EXPRESS  
MASTERCHARGE • VISA accepted  
Valet Parking

1376 Kapiolani Blvd. Reservations Ph: 941-5051

# Arthur's

Luncheon served from 11AM to 2PM,  
Monday thru Friday. Cocktails till closing  
at 10 PM. Light lunches on Saturdays.  
In the Davies Pacific Center, on  
Merchant and Alakea Sts. Phone 521-7133.

*A Flamingo Restaurant*

## Diner's

"Home of the Local-Style Plate Lunch"

Call ahead so that your order will be ready for pick-up.

Every business executive has to treat the staff to lunch, or dinner  
... especially when you're working late on a big project. Order  
plate lunches from DINER'S. Easy on the pocketbook. Fast  
service. Delicious Food.

Keeaumoku  
Ph. 941-1588

Kalihi  
Ph. 841-0188

Waipahu  
Ph. 671-2847

Waimalu Plaza  
Ph. 487-5541

### A MOST COMPLETE SEAFOOD RESTAURANT IN WAIKIKI

- **Contemporary Environment**—with a touch of class.
- **Delectable Seafood**—fresh Hawaiian fish, Maine lobster, Shellfish Paella, Pastas, Salads, French Fried Seafood, steak combinations.
- **Quality Bar Service**—Mai Tai a specialty.



## THE SEAFOOD EMPORIUM

2201 Kalakaua Avenue • Telephone 922-5547  
Royal Hawaiian Center, Discount parking in building

## Now, we're open till midnight.

We cordially invite you to come and enjoy our  
fine family dining during our new extended hours:

**Monday - Friday, 6 a.m. to midnight;**

**Saturday, 8 a.m. to midnight;**

**Sunday, 8 a.m. to 9 p.m.**



**teruya's** 1333 River Street  
Phone 533-1218

## TAKE A MILANESE LUNCHBREAK

*Break away from the office.*

Have Northern Italian — or Continental —  
lunch or dinner with us. Any day. Buon gusto!

## RENOWN MILANO

Lunch 11 a.m.-3 p.m. • Dinner 5:30-11:30 p.m.  
Happy Hours 3-6 p.m., 10 p.m.-midnight  
Discovery Bay Shopping Center  
Ph. 947-1933, 947-2562 • Validated parking at rear

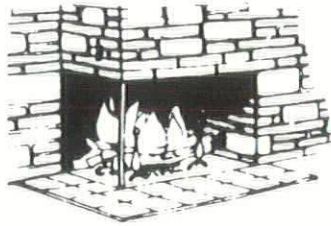


*These fine  
eating places  
can be enjoyed  
for  
breakfast, lunch, dinner,  
or a catered affair.*



# FIREPLACE HAWAII INC.

OFFERING A COMPLETE LINE  
OF FIREPLACES AND  
ACCESSORIES



Romance and warmth  
go hand in hand.

4384 Malaai Street • Honolulu, Hawaii •  
Ph. 422-2741

54 Waiuanue Avenue • Hilo, Hawaii •  
Ph. 935-9693

Lic # 8209 & 2334



## Drafting Errors

Continued from Page 28

errors and omissions will be caught, but mistakes by a careless person may eventually slip through.

Remember how important an error-free design is when you are

### Classified Notices

Call 521-0021 to place a classified ad. \$2.50 per line, 4 line minimum, approximately 5 words per line. Payment must accompany order.

CUSTOM PICTURE FRAMING  
Specializing in Koa  
Pick-up and delivery

Clayton J Hong 536-0343

Construction Products Mfg. Council  
Nov. 10—11:30—Pagoda Restaurant  
Speaker—Wes Hillendahl, Bank of HI  
for reservations call 845-2976

tempted to view your own tasks as routine or inconsequential.

Those whose job it is to check the work of others will be quick to agree that omissions are often much more difficult to detect than outright errors. Development of fail-safe methods of checking and back-checking are of great importance in preventing problems. But the one thing that marks the success of most top-rate A/E firms is a highly conscientious and dedicated effort by every level of employee from trainee up through senior employees.

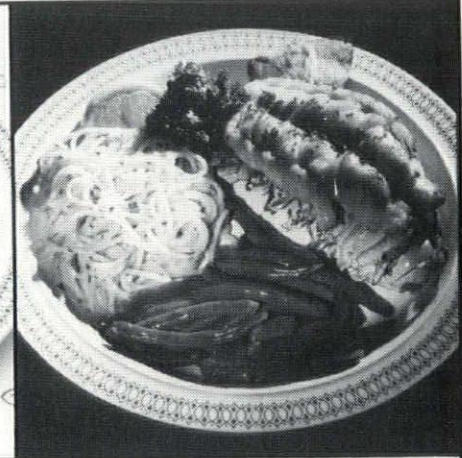
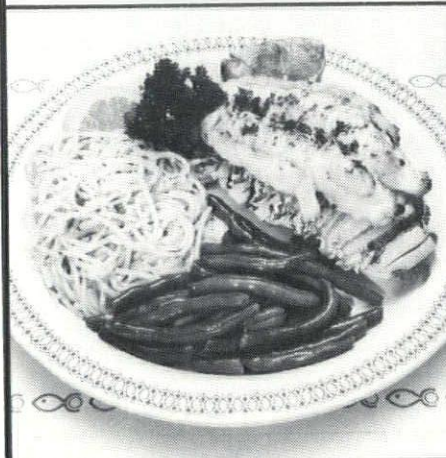
The work product of an A/E firm is a service uniquely expressed in the form of drawings and specifications. They are intended to anticipate all materials and equipment necessary to assemble a complete project. Never underestimate the importance your job plays in accomplishing that service. HA

### ADVERTISERS INDEX HAWAII ARCHITECT NOVEMBER 1980

ALOHA STATE SALES	20
AMELCO ELEVATOR	32
AMERON HC&D, LTD.	7
BADER'S	14
BYRON II	25
C.C.P.I.	24
CENTRAL PACIFIC SUPPLY	21
COLORPRINTS, INC.	27
COLUMBIA INN	29
CORAL REEF RESTAURANT	25
DICKENS PUB	25
DINER'S DRIVE INN	29
FIREPLACE HAWAII, INC.	30
FLAMINGO RESTAURANTS	29
GAF HAWAII, INC.	5
GASCO, INC.	9
HAWAIIAN TELEPHONE	13
HOUSE OF LIGHT	27
IMUA BUILDER SERVICES	10
INTERNATIONAL TILE DESIGN	12
EARLE M. JORGENSEN CO.	2
KAILUA CANDY CO.	20
LE BON RESTAURANT	29
M's COFFEE TAVERN	25
MOREIRA, INC.	12
OFFICE THINGS	31
ORSON'S RESTAURANT	30
PACIFIC BUREAU FOR LATHING & PLASTERING	15
PACIFIC INDUSTRIAL	19
RENOWN RESTAURANT	29
SANDERS TRADING CO.	19
SEAFOOD EMPORIUM	29
SKYLIGHT OF HAWAII	15
STUDCO, INC.	28
TERUYA RESTAURANT, INC.	29
TILE, MARBLE & TERRAZZO	23
TRANS-LEASE	15

## Lobster for lunch.

## Lobster for dinner.



At Orsons, lunch is as important as dinner. That's why our quality seafood, our service, and our reasonable prices stay the same for both meals.

The same dinner you enjoyed with your family last night can be ordered at your business lunch today.

Call 521-5681 for reservations.

Sunday-Tuesday 11 a.m. to 10 p.m.  
Wednesday-Saturday 11 a.m. to 11 p.m.

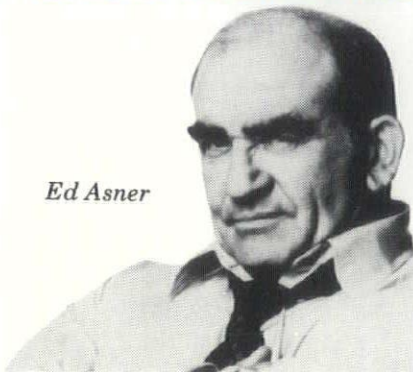


1050 Ala Moana Blvd. at the Ward  
Warehouse



# OLIVETTI'S THE IBM OBSOLETE.

# *new* ET 121. IT MAKES SELECTRIC® I, II AND III



Ed Asner

A famous tough guy asks Olivetti some tough questions about its new electronic typewriter.

**Q. Don't make me laugh. Your new ET 121's going to make IBM's Selectrics® obsolete?**

A. They already are. Selectrics are electromechanical. And that's old technology. Our new ET 121 is electronic. Everybody knows electronic is today's state of the art.

**Q. Not everybody. Pretend I'm stupid. What's so great about electronic typewriters?**

A. For one thing, the ET 121's electronic design has fewer moving parts. (IBM's Selectrics have over 1,000 mechanical parts.) Fewer moving parts should mean fewer parts to break down.

**Q. For another?**

A. Because it's electronic, the ET 121 handles many functions *automatically*. It even has a one-line memory to make correcting a snap. And it types in foreign languages without changing the printing wheel.

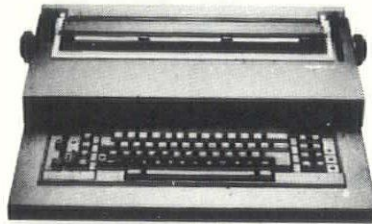
**Q. Wait a minute! Did you say printing wheel? What's that?**

A. The ET 121 has a daisy wheel printer, not a ball. To make every document look professionally done.

Also, the ET 121 is significantly quieter than the Selectrics. You can really hear the difference.

## 1980's TECHNOLOGY vs. 1960's TECHNOLOGY

Olivetti's ET 121	IBM's Selectrics
Printing element	No
Quiet	?
3 type pitches	2 type pitches
100-character keyboard	96-character keyboard
Foreign languages without changing printing element	No
1-line memory	No
Automatic centering	No
Automatic return	No
Electronic correction	No
Electronic indent	No
Electronically lines up columns and numbers	No
Electronic simplicity	Over 1,000 mechanical parts



OLIVETTI ET 121

**olivetti**  
if you're a tough customer

**Q. So your ET 121's got a lot on the ball. Is there anything it can't do?**

A. Sure. It hasn't got text display. But don't worry. We've got you covered there, too. Our ET 221 gives you that. And it stores words and formats. And, if you need a machine that's even more sophisticated, there's our new ET 231. It gives you two kinds of memory. A working memory for text storage. And a permanent memory for frequently used phrases or formats.

When you get right down to it, whatever your typing needs—somewhere in our line—Olivetti's got just your type.

**Q. Yeah. But do I have to send my secretary to M.I.T. to learn to run your machine?**

A. Not ours. It's simple. All functions are clearly marked on the keyboard. Your secretary doesn't need computer school. The ET 121's already been there.

Ask us your own tough questions. Call us today for a free demonstration and see for yourself. No obligation, of course.

### LEASE/PURCHASE PLANS

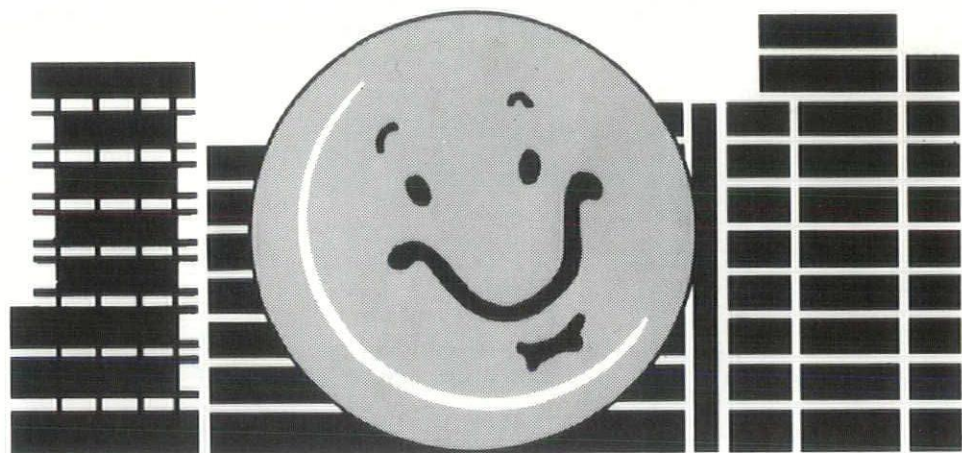
Call us to arrange a demonstration. No obligation, of course.

HONOLULU 740 Ala Moana 524-0220	KAHULUI 261 Lalo Street 877-7331	HILO 101 Holomua 935-5401	KONA 74-5603 Alapa 329-1308
---------------------------------------	--	---------------------------------	-----------------------------------

A different kind of company where promises and customers are kept.







## Happiness is pushbutton elevator service that's both reliable and affordable.

Elevators that are activated by hundreds of hands every day, perhaps every hour, need expert professional **preventive maintenance** service. And, as a user, you want fast **emergency** service whenever you need it.

Amelco Elevator maintenance service includes all of this, and also helps to balance your condominium budget. Nowadays, that's a very happy thought. Call for a comparison estimate with what you are paying now.

**Ready for that Happy Number? It's 845-3291.**



**Amelco Elevator**  
An Hawaiian Company

239 Puuhale Road / Honolulu, Hawaii 96819 / Phone 845-3291