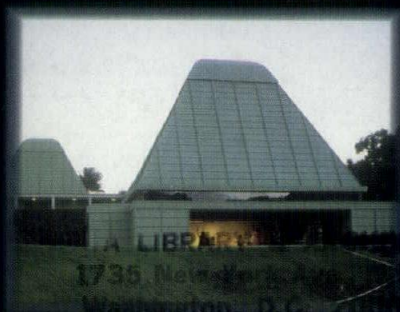


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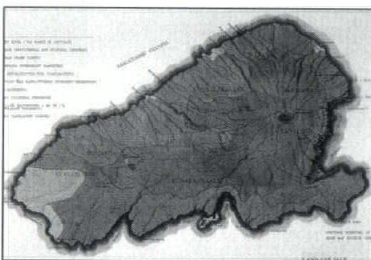
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IN THIS ISSUE ...

Award-winning projects and people are the focus of this issue of *Hawaii Pacific Architecture*. In a departure from previous award issues, outstanding projects are featured from professions that are closely tied to architecture, including engineering and planning. Also recognized are Ty Sutton and Frank Haines for their contributions to the architectural profession. "Insider" information on the 1997 AIA Honolulu Design Awards judging process is provided. Finally, last year's Design Award winner presentations are concluded with Ferraro Choi's Award of Merit for interior design of a prominent Honolulu law firm. The 1997 winning projects will be featured in subsequent issues.

COVER: This colorful assemblage of photographs highlights portions of projects that received 1997 AIA Honolulu Design Awards.

Hawaii Pacific Architecture is the monthly journal of the AIA Hawaii State Council. Subscriptions are \$36 per year. Opinions expressed by authors do not necessarily reflect those of either the AIA Hawaii State Council or the publisher. The appearance of advertisements or new products and service information does not constitute an endorsement of the items featured.



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Local firms recognized for outstanding projects

Consulting Engineers Take a Bow

by Jamie Kemp

Consulting engineering firms in Hawaii are often faced with daunting tasks: dewatering excavations, changing soil conditions, maximizing use of available land, taking hurricanes and seismic activity into account in project design, and finding qualified personnel. The firms rise to these challenges and more with little public knowledge or recognition of their contributions, except for occasional publicity generated by industry award programs.

Five local consulting engineering firms were recently recognized by the Consulting Engineers Council of Hawaii (CECH) for outstanding projects. One firm subsequently received a prestigious national level award.

Hawaii Pacific Architecture salutes the winners for their achievements.

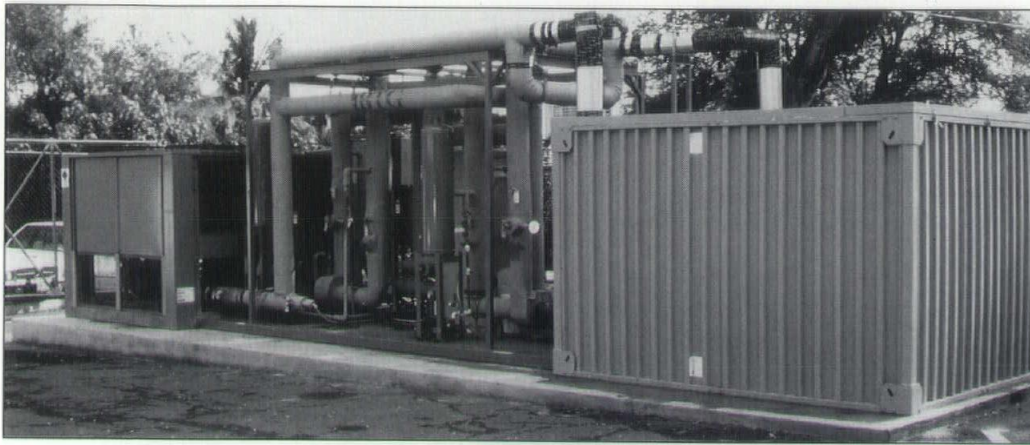
Nimitz Highway Microtunneling Technology Woodward-Clyde Consultants

Woodward-Clyde Consultants recently received an Honor Award in the American Consulting Engineers Council's 1997 Engineering Excellence Awards competition for the use of microtunneling technology and jet grout soil stabilization columns in the Nimitz Highway relief sewer project. The company previously won the 1997 Grand Conceptor Award, the highest CECH award.

Faced with trenching problems along



Felix Limtiaco, former director of the Department of Wastewater Management and contractors Franco and Frank Coluccio listen as the Rev. William Kaina blesses "Geraldine," the microtunnel boring machine used in the Nimitz Highway relief sewer project.



Cedric D.O. Chong & Associates received an Excellence Award for the design of the air conditioning system for Iolani School.

Nimitz Highway, Woodward-Clyde proposed a microtunneling alternative for installing 3,000 feet of a 54-inch diameter sewer line at a depth of 15-20 feet below the groundwater table, with underlying areas ranging from soft, compressible soils to hard coral.

The firm developed an innovative use of alternating vertical and horizontal jet grout columns to support the pipeline in order to prevent it from settling. By installing the pipe using microtunneling technology, the impact on traffic and local business would be reduced. In addition, there would be a reduced need for handling hydrocarbon-contaminated soil and groundwater.

The use of jet grout support columns eliminated the need to drive costly piling to support the sewer pipe. The project marked the first time a large diameter concrete pipeline was pipe-jacked and micro-tunneled through soft soils and hard corals using the same microtunneling machine.

Iolani School Air Conditioning Cedric D.O. Chong & Associates

Cedric D.O. Chong & Associates received an Excellence Award from CECH for the design of an innovative air conditioning system for Iolani School. The design combines low temperature chilled water and air distribution with split coil air handlers for improved space comfort. The design included a custom dual path split coil in each classroom air handling unit, to lower space humidity levels and eliminate

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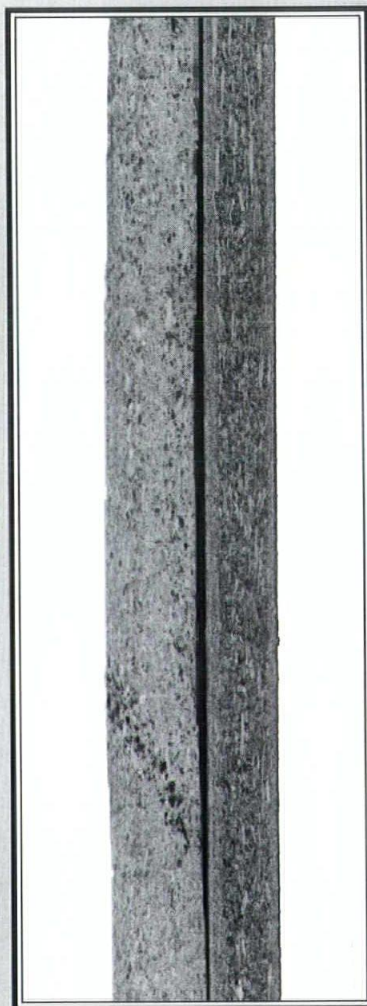
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humidity swings.

The ice used for cooling is manufactured at night which shifts electric load to off-peak hours and reduces the hourly demand for electric power. The dual path split coil design can be widely applied to increase occupant comfort and productivity, but more importantly, it improves indoor air quality by minimizing mildew, mold and bacteria growth typically found in moist areas without humidity control measures.

The system has reduced Iolani School's electrical operating costs approximately 60 percent per year over a conventional system. In addition, for its technical value to the engineering profession, the project was awarded an Engineering Excellence Award from the Electric Power Research Institute.

Sewer Line Rehabilitation at Enchanted Lake Engineering Solutions, Inc.

Engineering Solutions, Inc. received a CECH Excellence Award for the \$2.8 million Pilot Project for



Cured-in-place trenchless technology was used to rehabilitate sewer lines in Enchanted Lake.

Rehabilitation of Sewer Lines in Enchanted Lake for the City and County of Honolulu Department of Wastewater Management.

The project involved the rehabilitation of 9,163 feet of existing vitrified clay sewer pipe using non-trenching technologies, replacement upgrade of 1,517 feet with PVC piping, constructing four new manholes and rehabilitating 55 manholes. Geofoam and lightweight concrete backfills were used to reduce settlement problems.

The design/build project, done with Ideal Construction, Inc., was conceived and designed to evaluate various methods of sewer rehabilitation to reduce the amount of groundwater entering the sewer system through infiltration and inflow. This is expected to reduce the quantity of wastewater entering the Kailua Treatment Plant to be treated. An evaluation of the project's effectiveness will be used to select the most economical methods for future sewer repair work.

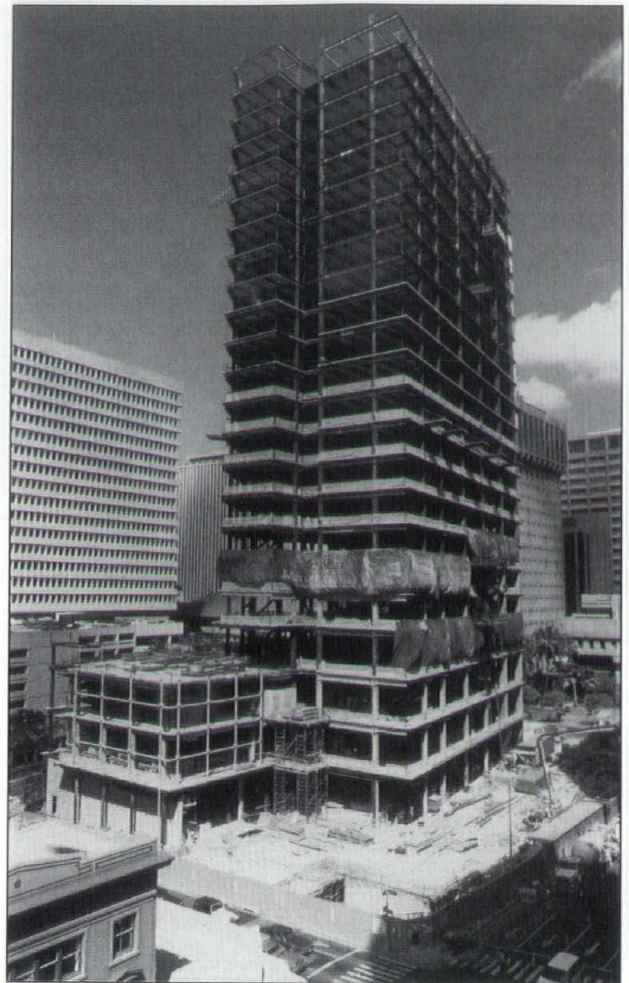
Performance-Based Structural Engineering of First Hawaiian Center
Martin & Bravo, Inc.

Martin & Bravo, Inc. (now Martin, Bravo & Chock) received an Honor Award from CECH for utilizing a new approach, comprehensive

performance-based structural engineering, in the design of First Hawaiian Center. The specialized design criteria achieves more reliable system behavior for occupant safety in scenarios not presently considered in the building code.

Four levels of seismic performance criteria were addressed in the design rather than the single code-specified loading. Goals of operational reliability were met for 50, 75, 475, and Oahu's maximum credible 1,000-year earthquakes. Three levels of wind performance criteria were also included. The building was designed to maintain its load-carrying capacity when exposed to 475-year wind speeds of 120 miles per hour.

The lobby and museum space was designed as a tall atrium with one exterior faced by a 36-foot high by 90-foot long art glass wall and a



First Hawaiian Center has been built to withstand massive earthquakes and hurricanes.

17-foot wide skylight. This cladding system, the first ever constructed in Hawaii, comprises one-and-a-half-inch thick beveled cast glass prism elements connected with machined

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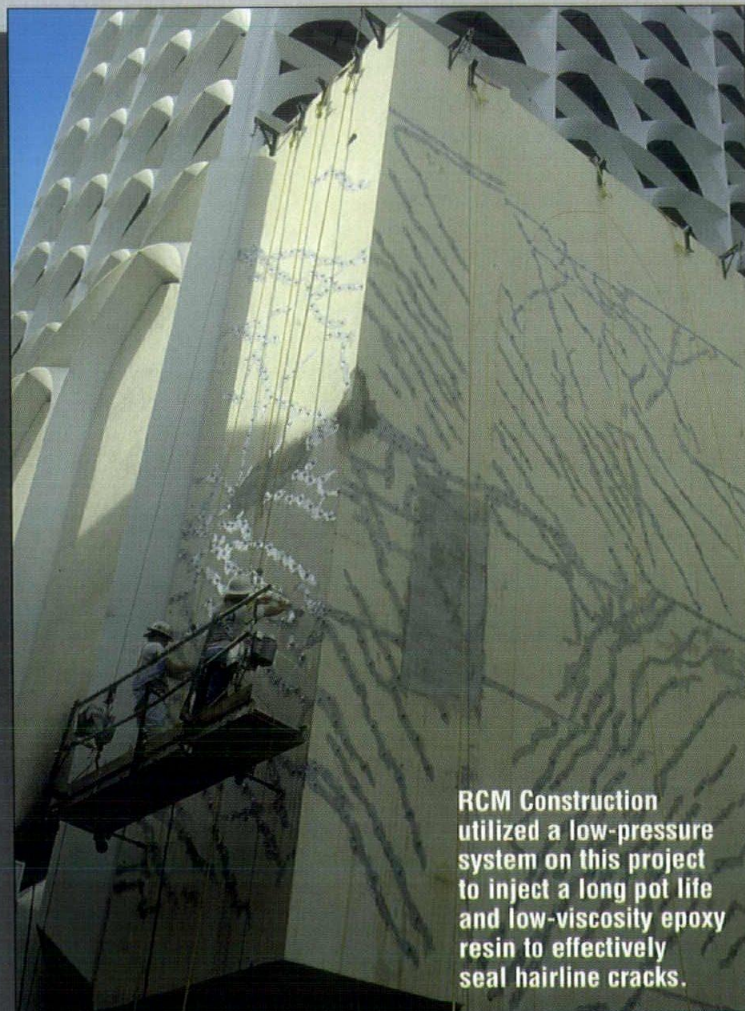
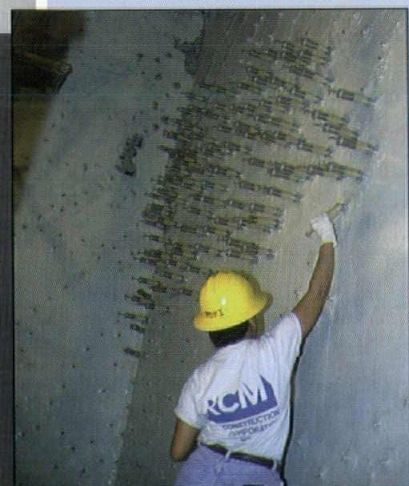
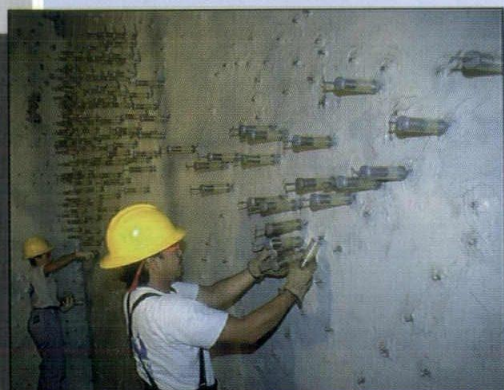
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Hualalai Resort Infrastructure Belt Collins Hawaii

Belt Collins Hawaii received a CECH Honor Award for the infrastructure master plan for Hualalai at Historic Kaupulehu, a 625-acre resort community on the Kona Coast. Belt Collins provided civil and sanitary engineering, site planning, cadastral survey, landscape architectural design, and land use and environmental permitting services for the project, which was designed to blend into the natural environment of stark lava flows.

The vision of the developers was to create a low-density village over lava fields, making infrastructure planning and design formidable tasks. Preservation of cultural sites and wetlands made the task more complicated.

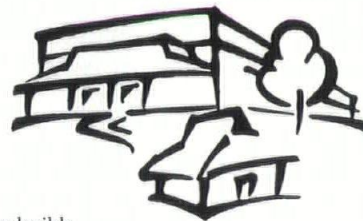
The plan addressed roadways, parking lots, pathways, drainage, wastewater collection and treatment, water systems and communications including underground electrical, telephone and cable television lines. Culturally significant sites were restored including anchialine ponds and a large wetland area that had filled with silt after being abandoned 50 years ago. The firm also prepared subdivision and zoning maps and produced a water resource management plan for the community.



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The Kaho'olawe Use Plan

Land Use Based on Culture

by Lisa Imata

In the mid-1970s, people referred to the 28,000-acre island of Kaho'olawe as the Target Island. It was nicknamed such because it had been used extensively by the U.S. military for several decades for training. Some people opposed the use of the island as a military target, and in the mid-1970s, a few activists occupied the island in a

cleanup and restoration activities. A cleanup phasing plan also was prepared for clearance of all unexploded ordnance and environmental restoration.

The PBR HAWAII team and subconsultants Pualani Kanaka'ole Kanahale, Davianna McGregor, Hardy Spoeher, Les Kuloloio and Rowland Reeve identified a vision for the long-

term use of the island as well as culturally-appropriate guiding principles for the plan. Because of the plan's sensitivity to Hawaiian culture, it was recognized this year with a prestigious national award: the 1997 American Planning Association National Planning Award in the category of Outstanding Planning of Cultural and Environmental Restoration.

The plan's vision statement is: The *kino* (body) of *Kanaloa* (Hawaiian deity for which Kaho'olawe is named) is restored. Forests and shrub lands of native plants clothe its slopes and valleys. Pristine ocean waters and healthy reef ecosystems support and surround

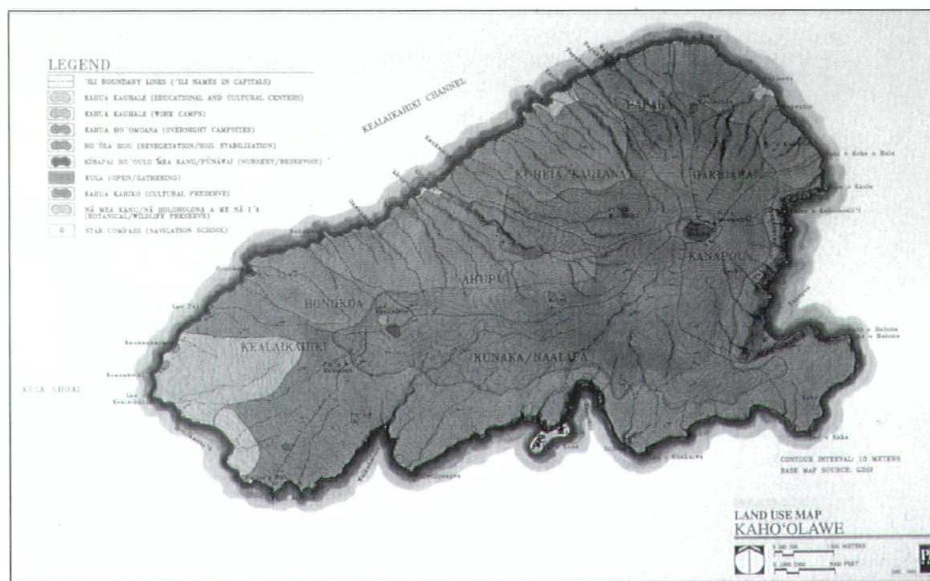
the island.

Na po'e Hawai'i (The people of Hawaii) care for the land in a manner which recognizes the island and ocean of *Kanaloa* as a living spiritual entity. *Kanaloa* is a *pu'uhonua* (place of refuge or sanctuary) and *wahi pana* (special place) where Native Hawaiian cultural practices flourish.

The *piko* (center) of *Kanaloa* is the crossroads of past and future generations from which the Native Hawaiian lifestyle spreads.

The guiding principles are:

- Learn from the land, the ocean, and the



Land use is plotted on a map of Kaho'olawe.

show of protest.

Now, after the island's return to the State of Hawaii, plans for its restoration and use as a Hawaiian cultural reserve are well under way. Taking the lead is the Kaho'olawe Island Reserve Commission (KIRC), created in 1994. KIRC's responsibility is to oversee: 1) the cleanup and restoration of Kaho'olawe and its surrounding waters, 2) access to the island and its surrounding waters, and 3) protection of historical, cultural and religious resources.

In 1995, KIRC contracted PBR HAWAII to develop a culturally-sensitive land use plan that also would guide the U.S. Navy in its

experience and knowledge of Hawaiian ancestors who settled the island.

- Recognize that the land, ocean and air are interconnected.
- Availability of water is the most important factor in planning for land uses.
- Use the ancient Hawaiian method of land division for planning. Divide the island into pie-shaped sections so that each section (or 'ili) extends from the central mountain to the ocean. 'Ili boundaries are similar to watershed boundaries. This method of division helps to recognize that upland conditions and activities may affect shoreline conditions and activities and vice versa.
- Gain guidance on present and future uses through chants, place names, archaeological and historical records, past residents, ancestors and the land itself.
- Maintain stewardship, conservation and love for the land.
- Provide environmental restoration.
- Provide cultural restoration.

To identify specific uses and activities, research on the island's past use was conducted and focus groups were organized around the topics of archaeology, education, ocean/cultural uses, expanded cultural uses and environmental/habitat restoration. Participants included cultural, environmental and archaeological experts, representatives from government agencies, members of the Protect Kaho'olawe 'Ohana (PKO) and other KIRC consultants.

Once a draft use plan was completed, copies were distributed to individuals and public libraries. The public was invited to open meetings in Hilo, Kona, Kahului, Lanai City, Kaunakakai, Pearl City and Lihue. The draft was then refined.

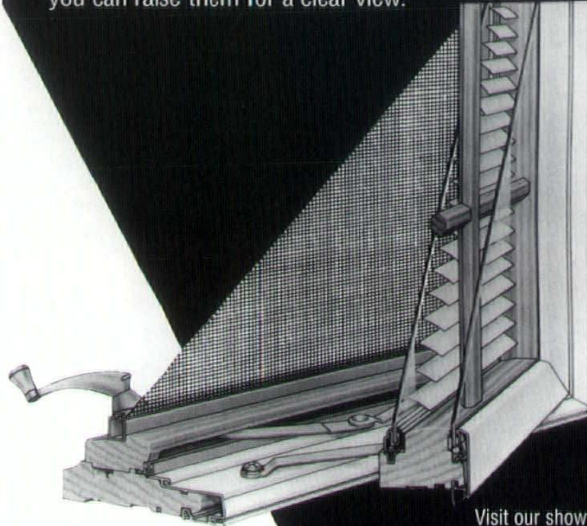
Throughout the process, numerous site visits to the island were conducted to learn from the land and verify the appropriateness of uses and activities identified in the plan.

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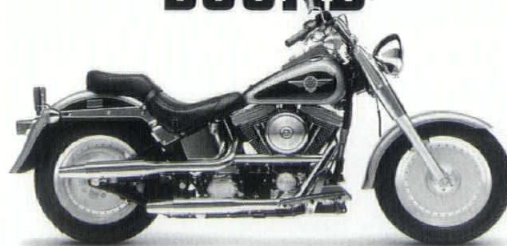
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The resulting Kaho'olawe Use Plan contains new land use categories created to reflect the unique conditions of the island and the cultural uses envisioned, including:

- *Kahua Kauhale* (Educational and Cultural Centers/Work Camps)
- *Kahua Ho'omoana* (Overnight Campsites)
- *Ho'ola Hou* (Revegetation/Soil Stabilization Areas)
- *Na Kahua Kahiko* (Cultural/Historical Preserves)

- *Na Mea Kanu / Na Holoholona A Me Na I'a* (Botanical/Wildlife Preserves)
- *Kula* (Open Lands)

Other major categories that have clearance implications – *Alaloa* (Roads and Trails) and *Kihapai Ho'oulu Mea Kanu / Punawai* (Nurseries/Reservoirs) – are also identified in the report.

Assisting KIRC in the development of a culturally-sensitive and appropriate use plan for Kaho'olawe was a unique and challenging experience.

There is much more to be done and the process of restoring the island continues. Last year, KIRC completed a Cultural Use Plan, an Ocean Management Plan and a Regulatory Framework for the cleanup. This year, the U.S. Navy is scheduled to choose a consultant to conduct the cleanup and restoration that will occur over the remainder of this century.

Lisa Imata is a planner at PBR Hawaii, Honolulu.

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Design and devotion to profession honored

Architects Recognized for Outstanding Contributions

Hawaii has more than its share of exemplary architects – men and women who are responsible for outstanding design, contribute to their professional and civic associations, and are committed to the community as a whole. Two such individuals were recently recognized by the University of Hawaii School of Architecture.

During the recognition banquet held during the Second International Symposium on Asia Pacific Architecture in April, the university presented the Vladimir Ossipoff, FAIA, Design Excellence Award to Ty Sutton, FAIA; and the Ernest H. Hara, FAIA, Distinguished Service Award to Frank Haines, FAIA.

Ty Sutton of Sutton Candia Partners received the design award for significant works on such projects as design development of the East-West Center with I.M. Pei and Associates and the Hawaii State Capitol with John Carl Warnecke, FAIA. Sutton also worked on the Honolulu Civic Center Master Plan, the University of Hawaii Long-Range Development Plan, and design consultation and planning for the Kaanapali resort development.

He also consulted for the State of

Hawaii on Aloha Tower Marketplace and the Hawaii Convention Center and developed urban design criteria for the Kakaako Special Design District. Before coming to Hawaii, Sutton was a design architect for I.M.

Pei & Associates and taught at the Columbia University School of Architecture.

The Vladimir Ossipoff, FAIA, Design Excellence Award honors outstanding design excellence by a Hawaii architect who has created

inspirational projects to define architecture. The award was named for Vladimir Ossipoff, FAIA, to recognize Ossipoff's contributions to architecture in Hawaii, particularly for designing with consideration to the environment.

A Lifetime of Service

Frank Haines, FAIA, chairman of the board of Architects Hawaii, received the distinguished service award for lifetime service to the profession of architecture. This included guiding Architects Hawaii in numerous design

projects such as the Harold K.L. Castle Memorial Building for Bishop Museum, the Waikiki Landmark, Oahu Country Club and Grosvenor Center. He also worked on the Capitol Complex for the Federated States of Micronesia, Dalian Furama Hotel in China, and the Kameda Clinic Medical Center in Japan.

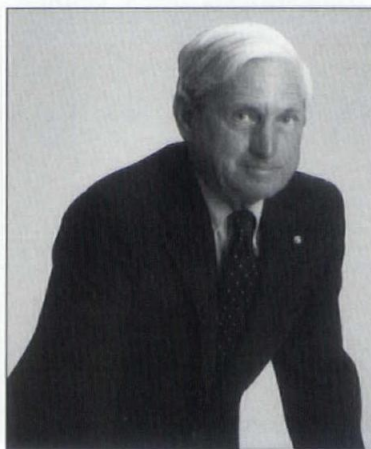
Haines also serves on numerous public organizations including the internationally-recognized Hawaii Cancer Research Center. He chaired the School of Architecture Development Fund for 15 years, serves as an adjunct professor on the school's faculty and recently assumed the presidency of the newly-formed Asia Pacific Center for Architecture, a non-profit organization seeking to improve the state of architecture in the Asia Pacific region. He is a member of the alumni associations of Princeton and MIT.

The Ernest H. Hara, FAIA, Distinguished Service Award honors contributions by a Hawaii architect who

has performed exceptional service to promote architecture. It was named in honor of Ernest Hara, FAIA, to acknowledge Hara's achievements, particularly his building of a cooperative relationship between AIA and architects in Japan over a period of 35 years.



Ty Sutton, FAIA



Frank Haines, FAIA

The AIA Honolulu Design Awards

Anatomy of a Decision

by Paul Andrew Pollock, AIA

The task is the same every year - assemble a jury that will select projects to receive an AIA Honolulu Design Award. However, that is where the similarities end from year to year. The path to awards selection can be impacted by a number of factors: the number of submittals, the categories solicited, or the state of the economy. But the largest influence on awards selection is, of course, the jury.



Above: Paul Pollock (left) leads jurors in a discussion about projects contending for AIA Honolulu Design Awards.

Right: Project binders become scattered as jurors debate each entrant.

The format for the selection process set up by the Design Awards Committee is intentionally flexible. There is an agenda and suggested procedures to keep the process moving. However, the jury can use as many or as few of the suggestions as they desire.

As the facilitator, I walked the fine line be-

tween observer and moderator. In the early stages of project review, I helped jurors organize their opinions and selections by assembling a matrix of all projects and each juror's opinion. I believe the formality of presenting everyone's opinion helped to establish a rough cut of selections so that remaining candidates could be discussed in detail.

There comes a time, usually in the mid-afternoon of the first day, when the group establishes its own rhythm. It starts when one jury member grabs a marker and approaches the easel. The discussion gets much more interactive. The most important part of my job is to recognize when this moment occurs and recede into a corner. From that time on, I am there simply to transport the group to various locations and lock up when their work is completed. This gave me time to keep a journal of our activities:

June 7, 1997

8:30 a.m. Jurors arrive, introduce each other and get to work. This is a seasoned group that knows what to do. They lunge for submittals and start reviewing project binders.



12:00 p.m. Lunch. The topic of discussion is the business at hand. The group discusses which members have seen what projects. They compare opinions.

1:10 p.m. First round. As the list of projects is read, each juror notes his/her opinion on whether a project is deserving of an award. The votes are tallied on the board (yes, no or maybe). Once complete, the unanimous votes (yes or no) are discussed first and verified that they should or should not win. Then the hard part begins. Each project with differing opinions (most of them) is discussed and debated.

3:20 p.m. Break. A number system is devised to rank all projects not yet eliminated. Based on the jurors' vote, each project is given numerical value for each juror voting and then divided by the number of voting jurors. (Jurors who have a personal or professional relationship with any project voluntarily abstain from voting.) The composite numerical ranking becomes a significant tool to establish which projects are in and which are out. There's more debate over borderline entries. Finally, a list is completed of definite winners and projects requiring more discussion. A list of sites is established to be visited the following day.

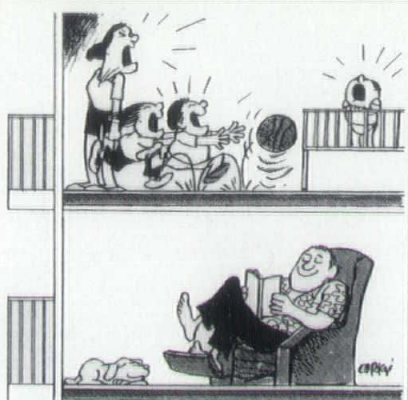
June 8, 1997

8:30 a.m. The jurors assemble at AIA and pile into the van that will be our mobile office for the day. We visit seven sites. Most of these projects are already leaning toward recognition. Six win an award; one does not.

12:20 p.m. Lunch. The discussion shifts to the level of award. The jury does not see any projects that qualify for a Grand Award. Two projects are deemed worthy of Awards of Excellence. The rest receive Awards of Merit.

2:10 p.m. The jurors return to AIA. The group confirms the selections and writes comments about each winner for publication purposes. Job well done.

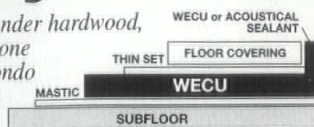
The jury process is not simply



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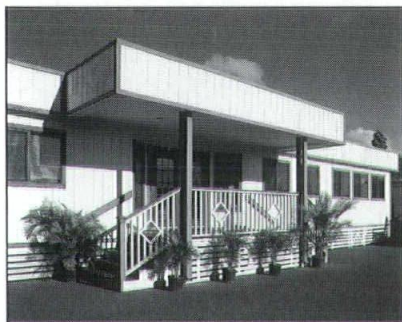
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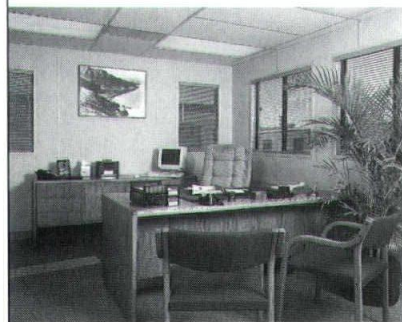
five persons giving a project thumbs up or down. Each jury has its own way of determining selections. Many times in the past, members required themselves to come to a unanimous consensus. In situations when multiple jurors were set in their views, fierce debate had ensued as individuals defended their positions. For this year's group, it was more of a collaboration than a consensus. The use of a point system (not a common approach with recent juries) allowed concurrence without necessarily unanimous agreement.

In the end, all jurors had a glow of satisfaction about their collective decision regardless of each member's original opinion. In short, this year's jury had excellent chemistry... and it shows by the quality of their selections.

Paul Andrew Pollock, AIA, is an architect at the Navy Public Works Center, Pearl Harbor. He is a member and past chair of the Design Awards Committee.



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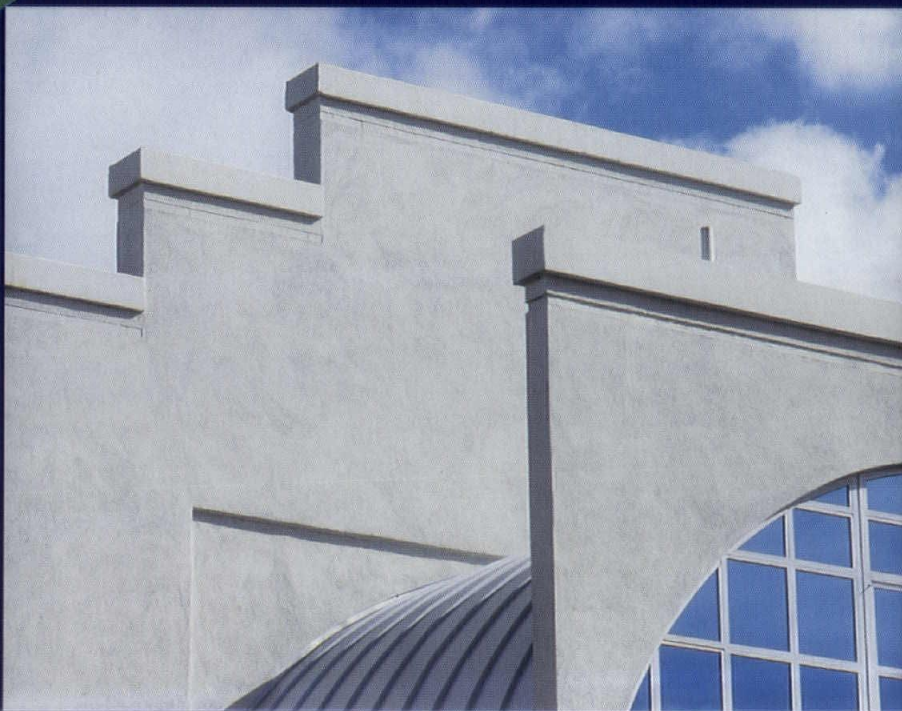
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Architectural Art Featured At Exhibition

The Contemporary Museum at First Hawaiian Center is featuring models and photographs of artist James Car-

penter, whose work showcases architectural designs, in its current exhibition which runs through Oct. 8.

Carpenter formed James Carpenter Design Associates in 1978 where he cre-

ated a collaborative working environment in which architects, engineers and fabricators develop design applications of glass, steel, aluminum and other materials which can be incorporated in architectural projects.

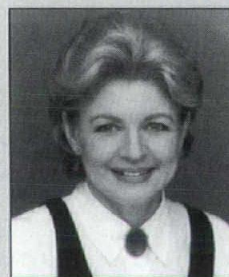
Among Carpenter's work is a permanent installation in the Banking Hall of First Hawaiian Center. *Refractive Glass Wall* functions as a weather barrier for the building as well as a monumental decorative feature.

Ferraro Choi Promotes Manuel

Ferraro Choi And Associates Ltd recently promoted Connie Clements Manuel to director of project management. In her new position, Manuel over-

sees all project management standards for the firm.

Manuel formerly served as senior project manager and joined the firm in 1989 as a construction



Connie Clements Manuel

contract administrator. She has pursued graduate studies in architecture and law at Harvard University and has studied engineering and art at the University of Hawaii and Chaminade University. She received Bachelor of Arts degrees in English and Pre-Law at Victor Valley College.

Noe Obtains Graduate Fellowship

Joyce M. Noe, AIA, an associate professor at the University of Hawaii School of Architecture, will pursue a graduate degree in design studies at Harvard University Graduate School of Design supported by a professional fellowship from the American Association of University Women Education Foundation.

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- Design offers less space

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An instructor at the school since 1981, Noe has taught architectural history, design studio and professional practice. She is also director of the Professional Practice Program and has coordinated the International Student Exchange Program. She was presented the 1996/97 Faculty Honor Award by the American Institute of Architecture Students.

She has been an active member of various AIA committees.

Local Architecture Student Wins Design Grant

Mark M. Yoshizaki has been named the first recipient of The George J. Wimberly Design and Internship/Travel Grant. The grant offers a one-year



Mark M. Yoshizaki

was a 1996 AIA student award winner.

The grant will be offered annually to a graduating senior at the University of Hawaii School of Architecture. Yoshizaki will work on design elements for projects in Indonesia, Malaysia and The People's Republic of China.

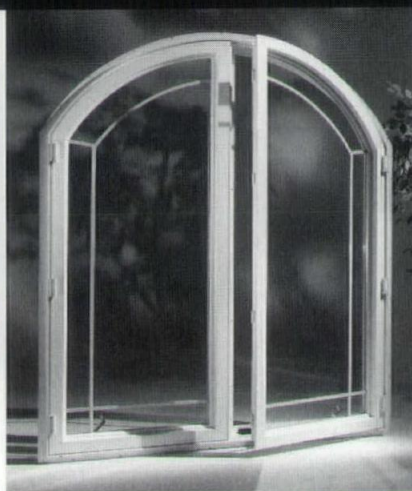
Structural Engineers To Hold Convention

The 1997 annual Hawaii Structural Engineers Convention will take place at the Hilton Hawaiian Village, Aug. 8-9, 1997.

Exhibitions and technical sessions will be held from 7:30 a.m. to noon both days. The convention is open to the public. For more information, call Paul Kajiya at AMS, 842-9477.



Great Escape



Great Wall

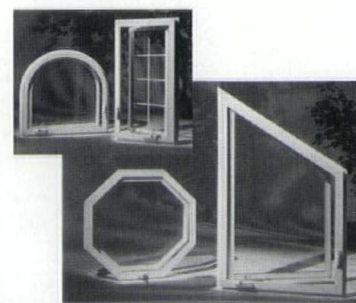
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Interiors

Ferraro Choi And Associates Ltd

The Law Offices of Bays Deaver Hiatt Lung & Rose

In this project, the challenge was to design an upscale, urban and sophisticated space for law offices while also keeping the design relaxed enough for the Hawaii market. Ferraro Choi employed simple, almost austere geometric forms and spaces in the entry and reception areas. Granite paving and the-

atrical lighting were also used to create a quiet elegance. Cherry, lacewood and sycamore woods were utilized along with aluminum for the reception area, which introduces the materials and tones used throughout the public areas.

The secretarial stations were designed to orchestrate the harmonic diversity of materials, including horizontal cherry veneer contrasted with vertical running white oak, metal finishes for in/out boxes and lacewood wrapped on the rounded transaction counters. A continuous 48-foot black beam formed the overhead storage which spans six work stations. These open areas culminated into two study/research pods that are clad in alternating wood grains and set apart from the work stations.

For a more relaxed setting, the private offices made use of standard white oak and a softer palette.

Credits

Owner/client

Bays Deaver Hiatt Lung & Rose

Architect

Ferraro Choi And Associates Ltd

Contractor

J. Kadowaki Inc.

Consultants

Mechanical: Benjamin S.

Notkin/Hawaii

Electrical: Toft Moss Farrow & Associates

Left: Simple geometric forms and spaces were used in the entry and reception areas. Right: Granite paving and theatrical lighting create a quiet elegance.

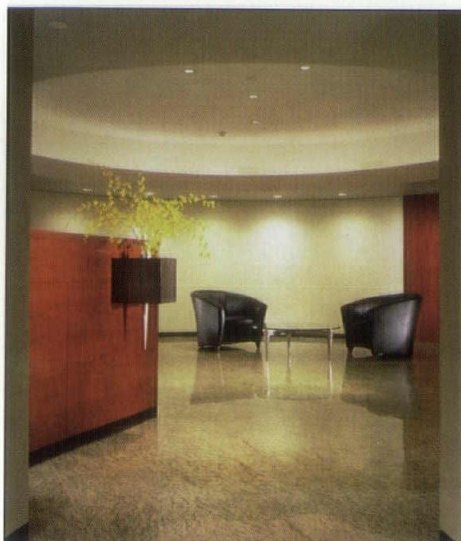




Study/research pods were clad in a checkerboard of alternating wood grains.

Jury's Comments:

"A clean, simple and direct open space planning project with consistent attention to details throughout."



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Stone Maintenance ...Who Has Time for It?

by Adriano Ferraz

From the softest sandstone to the hardest granite, at one time or another natural stone products have been properly selected and successfully used in projects throughout the world ever since people began exploring natural building materials centuries ago.

However, there is a good deal of misinformation regarding the amount of maintenance that stone products require. Some people are discouraged from using these mate-

rials because of perceptions that they require excessive maintenance.

The biggest mistake some professionals make when choosing natural stone for their projects is not taking advantage of the product's natural properties such as strength, durability and resistance to water. When stone is used in accordance with its own properties, it becomes timeless.

Unfortunately, we still see people making design decisions based mostly on looks and color schemes, putting the entire maintenance sub-

ject on hold in hopes for a "miracle" product and in some cases completely ignoring the nature of the materials at hand.

We recommend the use of a high-quality penetrating sealant in all stone applications, keeping in mind that there are different sealants for different stones. Here are other maintenance tips:

- Keep stone surfaces free of sand and dirt by vacuuming or dust mopping regularly.
- Use only neutral pH-free rinsing cleaners which should be applied with a soft mop or towel. Rinsing frequency will vary depending on the area. A commercial area should be rinsed daily while a residential application may only require rinsing weekly or bi-weekly.
- Cover the bottoms of furniture legs with felt.
- Use moisture-proof containers for potted plants.

Specialized sealants and cleaners will help protect and maintain the natural properties of stone but these products should be looked upon as only part of the process. Understanding and appreciating the particular color and other natural variations inherent to the stone and choosing materials that are compatible with the environment and lifestyle of those around it is the most efficient way to reduce maintenance.

Adriano Ferraz is general manager of Hawaii region for Marmol Export, USA.

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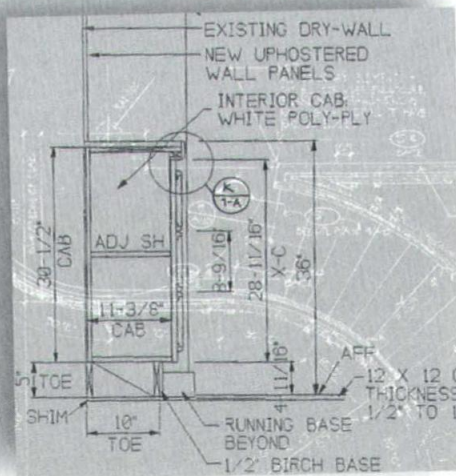
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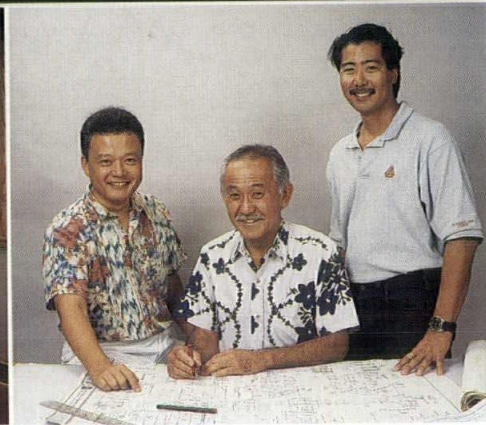
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Observes Doc Sasaki, senior designer for Architects Hawaii, Ltd.: "Renovations can be technically and emotionally tough. Without available records, there were a few surprises — even some old railroad track. Allied's people were always cooperative and efficient. The working chemistry was good."

"Keeping hospitality in place was important to us," recalls Hayashi of Like Like's remodeling. "We appreciated Allied's caring, organized approach." Adds his wife, "I looked forward to our weekly progress meetings and missed seeing everyone when we were pau."



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