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Specialty comments: (From left) Drs. Ronald Marks, Thomas Razmus and Jack Caton voice their opinions at Sunday's hearings.

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Food

Continued from page one
and more standing just beyond this simmering feast of flavors by the loulou palm, anthurium and palapalai fern in the Pa Kaloka Courtyard, craning for a view or perhaps an aroma.

Chef Sam Choy walks and talks island flavors, wears them in his girth, spreads them round the earth, Taiwan, San Diego, the nation's capital, the Homestead resort in Virginia among recent stops and United Airlines travelers to the islands among his many guests.

TV host, cookbook author, award-winning restaurateur, Sam Choy ennobles the diverse land and sea flavors of Hawaii, offers them as Island Cuisine and serves them as mana, "that feeling of love we share in the islands."

And now he's cooking for a convention

crowd that won't leave unfed. Servers wearing "Never trust a skinny chef" aprons will close this feast of love distributing samples of Sam Choy's onsite cooking.

"All I want to get across this morning is my love for food in Hawaii, the true taste of Hawaii. Poké, a traditional dish from Hawaii, that's what you folks are going to sample this morning."

Here he is this sunny Sunday morn bantering with the convention center crowd while finishing the moi with "a nice sweet sour"—ginger pineapple, onions, red peppers, apple cider vinegar and sugar.

"How many of you are watching your calories? Time to close your eyes."

"What am I doing? I'm having fun. We put a lot of aloha in our food." Honolulu, he says, is "the hottest city in the country right now for cuisine." Sam Choy is serving mana. ■

ADA offers congressional fellowship

The first ADA-supported congressional fellow of the new millennium has until Feb. 1 to apply for the Capitol Hill position.

The Association's Washington Office will accept applications for a 2000-2001 congressional fellowship from member dentists with an interest in public policy issues as they relate to dentistry or from dentists with pending membership applications. The one-year fellowship is jointly sponsored with the American Association for the Advancement of Science, which provides management services. It offers a \$50,000 stipend.

Applications including a curriculum vitae highlighting professional experience and professional published articles, education, appointments and public policy/legislative experience should be submitted to Dorothy Moss, director, ADA Washington Office, 1111 14th St. N.W., Suite 1200, Washington, D.C. 20005. Applicants should include a 500-word statement describing their interest in a congressional fellowship and what they hope to gain from it and two letters of reference from ADA members. ■

Attendance

Dentists

U.S. Member	8,310
U.S. Non-member	149
Intl. Member	203
Intl. Non-member	415
Total	9,077

Students

Members	150
Non-members	18
Intl. Student	32
Total	200

Dental Team

Dental Business Assistants	2,856
Intl. Dental Business Assistants	90
Dental Assistants	3,269
Intl. Dental Assistants	108
Dental Hygienists	2,350
Intl. Dental Hygienists	59
Lab Technicians	157
Intl. Lab Technicians	32
Total	8,921

Other

Dental Dealers	68
Intl. Dental Dealers	200
Guests	1,782
Intl. Guests	236
Spouses	3,546
Exhibitors	4,590
Other	2,443
Total	12,865

*Figures represent registration through noon Sunday.

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ADA News
Convention Daily



MONDAY, OCTOBER 11, 1999 VOLUME 9, NUMBER 3

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The ADA News Convention Daily office is located in Room 302B, Hawaii Convention Center; phone 791-8520; e-mail: "adanews@ada.org".

Discussion

Continued from page one

"this is not a debate," insisted Dr. Glover, who imposed time limits on speechifying over the three measures: two minutes per speaker, 20 minutes per resolution, alternating pros and cons from separate microphones.

On Board-supported Res. 8, seeking specialty recognition for Oral and Maxillofacial Radiology, discussion was brief but pointed.

Dr. Thomas Razmus of Morgantown, W.Va., president of the American Academy of Oral and Maxillofacial Radiology, noted that the proposal had made it through a "rigorous" application process, on its way to the House through the council and the Board of Trustees.

"We have met the requirements," he said.

Dr. Jerold Miller of Philadelphia rose in opposition, observing that there are only about 116 oral and maxillofacial radiologists in the country, which he said would make it "very difficult for small practitioners" to make referrals.

Discussion also was fairly brief on Res. 10, the Board-supported request for a specialty in oral medicine.

Most of the early talk in Dental Education centered on the middle measure, Res. 9, seeking a specialty in dental anesthesiology. The Board recommends a no vote.

Dr. Michael McGuire of Chicago, president-elect of the American Academy of Periodontology, said his organization favored Res. 9 as a way to meet "significantly unfulfilled need."

Countering that view, Dr. Martin Sanders of Lombard, Ill., insisted there was "no overwhelming unmet patient need."

He quoted a 1996 survey of "all providers of anesthesia and sedation in Illinois," which reportedly found that general dentists and periodontists "whose practices heavily emphasize the use of these services use them on less than 20 percent of their patients."

He added, "Our current system has worked well to meet all existing anesthesia needs."

In Budget and Business Matters, the central topic was, of course, a proposed \$26 dues increase to balance the proposed budget. Beyond the \$14 originally requested, the Board is seeking an additional \$12 to fund equipment

and services related to information technology.

The budget discussion stirred questions about the use of ADA reserves and about funds gained this year by the ADA Financial Services Co. through Citybank's purchase of the Association's affinity card business.

There also were questions about staff compensation, prompting President-elect Richard F. Mascola to remind the members that the ADA operates in "a very competitive market" where talented staff is tough to keep.

In Dental Benefits, Practice and Health, early talk focused on Res. 5 and a Board-supported substitute (Res. 5S-1) on prioritizing dental care delivered through government-sponsored health programs mainly intended to help the indigent.

Dr. Monica Hebl of Brookfield, Wis., spoke against prioritizing because, she said, "it will lead to decreased funds for dental care in these programs."

She added, "It hinders our ability to politically negotiate and compromise at a local level. I believe it is our responsibility to advocate for dental care on behalf of this population of disadvantaged people."

Dr. T. Carroll Player of Florence, S.C., chair of the Council on Government Affairs, noted that 5S-1 makes it plain that the ADA favors including a full range of dental services in government-funded programs. But when such programs are underfunded, he said, "we need to have some sort of prioritization. It doesn't say the ADA is going to support the prioritization; this is a backup."

Also in Dental Benefits, a not-unexpected trend in the discussion of dental indicators forced committee chair, Dr. Marie C. Schweinebraten, to define her job.

It appeared that some in the room wanted to skip right by the preamble and 11 indicators before the House this year and cut directly to Res. 87, a Board-supported measure calling for the dental indicators program to be terminated.

"It's my job to go through each of these res-



Presidential timber: ADA past-presidents rate their own table at the House of Delegates. From left are Drs. David A. Whiston, Gary Rainwater, Richard W. D'Eustachio, Burton H. Press, Arthur A. Dugoni, Joseph A. Devine and James A. Saddoris.

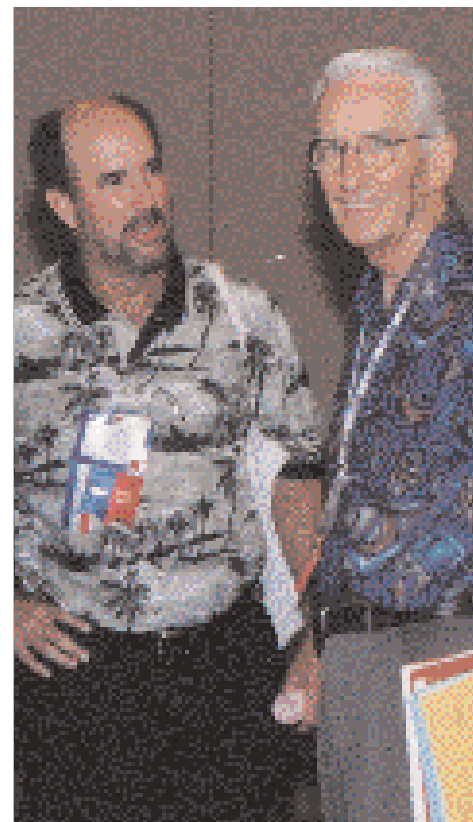
■ As they are each year, discussions in all seven House reference committees were lively, thoughtful, provocative—and well worth an early morning wake-up call.

olutions," insisted Dr. Schweinebraten. "Each indicator has to be dealt with separately by the House, and they cannot be changed. They must be voted up or down."

Some fear the indicators would be used against dentists in their dealings with third-party payers or in litigation.

Dr. Leslie Webb Jr., of Richmond, Va., wasn't buying that argument. "If it's going to be used against you in a court of law, I say you're in trouble anyway," said Dr. Webb, a member of the indicators development committee.

As they are each year, discussions in all seven House reference committees were lively, thoughtful, provocative—and well worth an early morning wake-up call. ■



At the hearings: ADA Executive Director John S. Zapp (right) talks with Dr. Earl "Les" Tarver of Monroe, La., outside the reference committee hearings Sunday.

DSA

Continued from page one

ites, adhesives and tooth coatings.)

The special recognition luncheon also included the Council's Choice Award (Council on Access, Prevention and Interprofessional Relations), the Colgate-Palmolive/American Dental Association Award for Outstanding Service to the Profession and the Public, as well as recognition of SUCCESS program sponsors and presidential citation recipients.

The Golden Apples, the New Dentists Leadership Award and ADA Council on Access, Prevention and Interprofessional Relations community preventive and geriatric dentistry program awards also were presented (see stories, pages 12 and 18).

Dr. Gregory J. Folse received the Council's Choice Award from CAPIR for what Dr. Rose termed "his single-handed crusade" to improve access to dental care for nursing home residents. The council cited Dr. Folse's efforts in working with nursing homes and the Health Care Financing Administration to secure compliance with existing regulations.

The Council's Choice Award, which CAPIR presents only when deemed warranted, honors those who have made significant contributions to the council's goals.



Winner: Dr. Elaine Stefanowicz displays the Golden Apple the Philadelphia County Dental Society was awarded for membership retention activities. Story, page 18.

Dr. Robert A. Bagramian received the 1999 Colgate-Palmolive/American Dental Association Award for Outstanding Service to the Public and the Profession.

A professor in the School of Dentistry and the School of Public Health at the University of Michigan, Dr. Bagramian conducted research in such topics as epidemiology, dental caries, periodontal disease, fluorosis, health services research, health behavior, clinical trials and geri-

atrics. He also directed the development of public health programs to meet the oral health needs of underserved populations, including a summer migrant dental program and a dental center in Ann Arbor, Mich.

Additionally, the ADA Board of Trustees conferred honorary membership on three individuals:

- Michael Sudzina, director of professional and scientific relations with Procter and Gamble, received an honorary membership for helping to develop corporate America's role in promoting oral health care. Mr. Sudzina was also lauded for his participation on the boards of foundations, organizations and dental schools.

- Robert Sullivan, founder of Sullivan Dental Products and chairman emeritus of Sullivan Schein Inc., received an honorary membership for his generosity and philanthropy on behalf of dentistry, dental patients and dental education. Mr. Sullivan recently contributed \$2 million to the Marquette University School of Dentistry.

- Jack Haber, chief Web officer of U.S. Oral Care for the Colgate-Palmolive Company, received an honorary membership for his decades-long support of organized dentistry and its programs. Mr. Haber supported oral care initiatives for special needs populations represented by organizations like Su Salud in California and the Foundation of Dentistry for the

Handicapped.

The SUCCESS Program, now in its 17th year, through corporate contributions helps dental students prepare for the transition from the rigors of education to the challenges of dental practice.

Dr. Rose recognized this year's following sponsors: 3M Dental Products; the ADA 1 Plan; A-dec, Inc.; CNA Insurance Companies and Poe & Brown Insurance; DENTSPLY International; The Equitable Life Assurance Society of the United States, New York; Great West Life & Annuity Insurance Company; Sullivan-Schein Dental; John O. Butler Company; Patterson Dental Company; Procter & Gamble Company; Ultradent Products, Inc.; Warner-Lambert Company.

Dr. Rose also took a moment to present presidential citations to colleagues and organizations "whose support and input have been invaluable to me as president."

The following dentists received presidential citations: Dr. William R. Chase, Dr. Arthur A. Dugoni, Dr. Allan J. Formicola, Dr. James H. Gaines, Dr. Jack W. Gottschalk, Dr. Stephen B. Mackler, Dr. Lawrence H. Meskin, Dr. Harold C. Slavkin, Dr. Richard W. Valachovic and Dr. Guillermo C. Vicuna.

Presidential citations were awarded to the following organizations: Michigan Dental Association, National Dental Association and Wisconsin Dental Association. ■

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ADAHF Paffenbarger center continues as leader in dental research arena

BY STACIE CROZIER

Gaithersburg, Md.—When a dentist purchases dental materials or a consumer buys a tube of toothpaste, they could be reinvesting a portion of the sale price in the ongoing research efforts of the ADA Health Foundation's Paffenbarger Research Center.

Consistent with the ADASH mission, PRC has a long history of working to make clinical dentistry better.

PRC has been a leader in dental research since its establishment as a cooperative research center with the government's

National Institute of Standards and Technology more than 70 years ago. Supported in part through grant funding from the Association to the ADA Health Foundation and research grants from the federal government, PRC scientists were "instrumental" in developing the modern high-speed dental drill and the panoramic X-ray machine, as well as revolutionary dental materials like protective tooth coatings, orthodontic bracket bonding materials, tooth-colored composite filling materials and adhe-

sives that bond composites and other restorative materials.

Until about 15 years ago, most of Paffenbarger's important developments were absorbed into the public domain, generating no income to help support the foundation's ongoing research work.

But since 1984, as new materials and technologies evolved from theories in the Paffenbarger laboratory to products on the shelf, the brainpower of PRC scientists has not only given the profession and the patient

many significant developments in materials and technologies, but has also served to generate substantial funds through patents on its technologies.

"In 1980, the Bayh-Dole Act allowed the ADA Health Foundation to begin earning revenues from patents it holds on dental technologies," says Dr. Fred Eichmiller, director of the Paffenbarger Research Center. "Currently, the ADASH holds more than 50 patents on dental technologies, mostly inventions by PRC scientists and some that have been donated to the foundation. Many of these patents are licensed to manufacturers and these generate about \$1 million in royalty income for the foundation each year. It's a great source of revenue for the foundation that is reinvested in continued dental research."

Under federal laws, the foundation should attempt to grant licenses to produce patented technologies to small- or medium-sized companies who manufacture their products in the United States and generate U.S. jobs. For the dental products industry, says Dr. Eichmiller, this is ideal, since most of them fit that profile. Since PRC is funded in part with government grants, government entities are not charged the portion of the purchase price on products made with PRC patents that represent the PRC's 3-to-6 percent royalty fee.

When a PRC researcher applies for a patent on a new dental technology, Dr. Eichmiller explains, the foundation may advertise the technology's availability in the National Register as well as through mailings to manufacturers. Interested companies answer through letters of interest, and learn more information by meeting with researchers. After looking at the framework of PRC studies and development, companies can then submit a



proposal to the ADASH for obtaining a license to utilize and market the new technology.

Working with patented technologies gives Paffenbarger researchers a broader view of their work, he adds, and new challenges that reach outside of the laboratory setting.

"Patents help our scientists become involved in all aspects of a dental technology's development," he says. "It gives us the opportunity to get out of the lab and see how things work when we deal with larger quantities of elements or broader applications. It's an all new set of challenges to deal with, and it helps keep researchers sharp, well-rounded and challenged."

Patents are obtained in the name of the Paffenbarger scientist who invents the new technology. The researcher receives a small percentage of royalties for his or her efforts, while the bulk of any royalty revenue goes to the ADA Health Foundation for reinvestment in research, education and legal fees associated with obtaining patents. These funds also help support projects or personnel that are "between grants," offering job stability and continuity for PRC programs. The real incentive for Paffenbarger staff, Dr. Eichmiller notes, is that the program invests in and protects the "intellectual property" of the ADASH.

"The federal government has cited our program as one of the best examples of an intellectual property management program around," Dr. Eichmiller says. "That is something we're very proud of."

See PRC, page nine

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*The Dental Advisor, Vol 12, No. 2, June 1998 *Dental Practice & Finance, Nov/Dec. 1998 US and International patents pending

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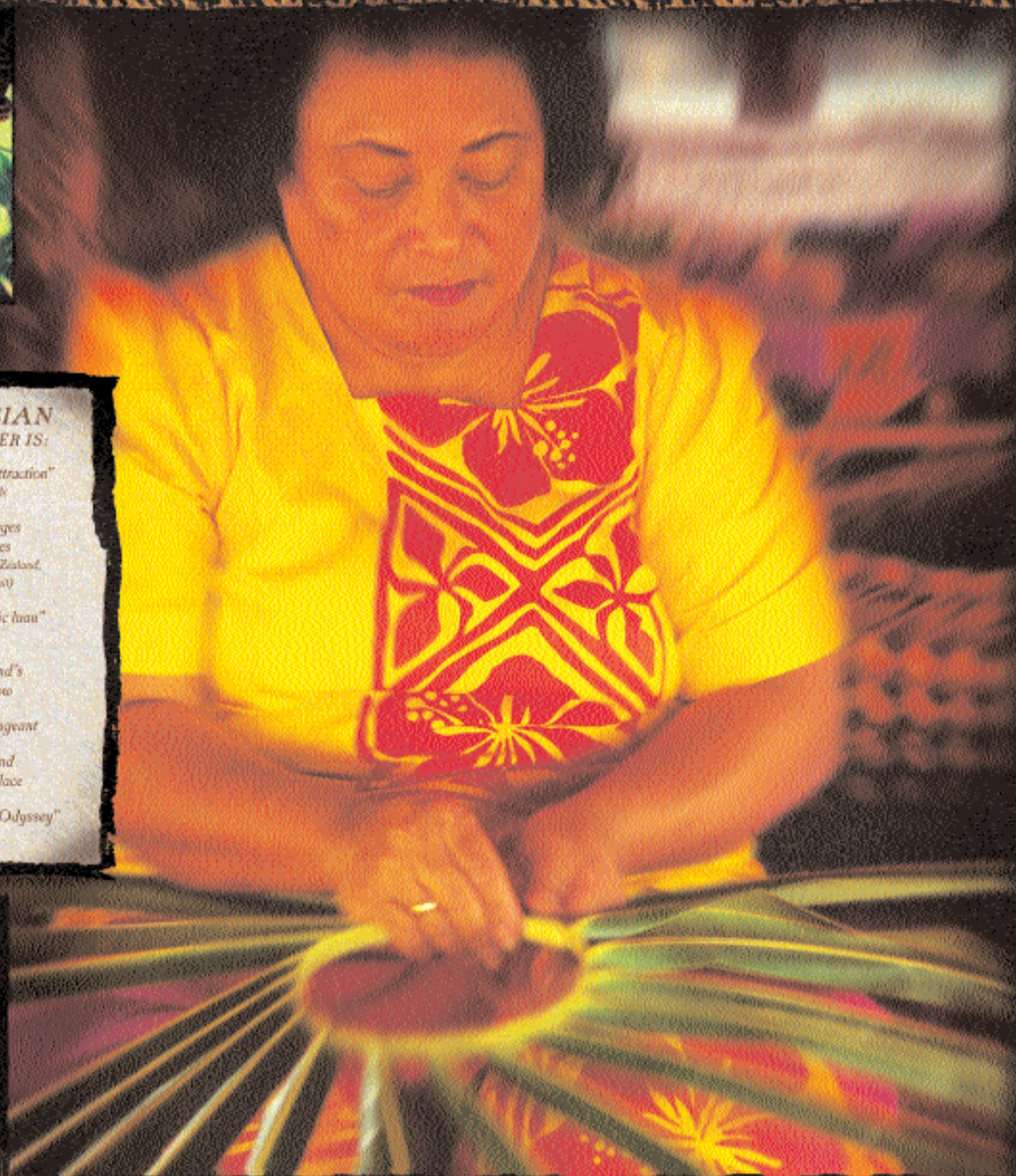
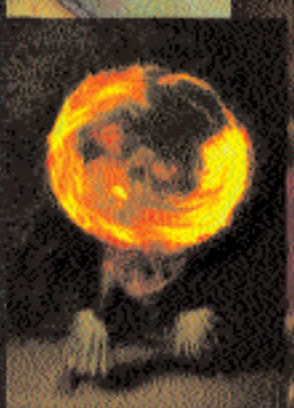
Hawaii's only canoe pageant

1979-1984

*A Polynesian art and
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1979-1984

*The heralded "Polynesian Odyssey"
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Coming to a theater near you

The islands have long been filmmaker favorites

BY JULIE A. JACOB

Hawaii's rugged cliffs, cascading waterfalls, colorful flowers, vivid sunsets, swaying palm trees and sparkling turquoise waters form a landscape that is as pretty as ... well, as pretty as a picture.

Hawaii's photogenic scenery, combined with its mild climate and romantic history, is why the islands have been a favorite location for moviemakers ever since the filmmaking industry began.

Films are big business in Hawaii. More than 140 movies have been filmed in Hawaii, and all the major islands have their own film bureaus. (More information on Hawaii's filmmaking industry is available at "http://www.film-hawaii.com.")

■ **The Big Island of Hawaii, with its diverse landscape encompassing everything from volcanoes to black sand beaches to rainforests to grassy ranch lands, is another popular location for filmmakers:**

Some of the many movies filmed on Oahu include "From Here to Eternity," "In Harm's Way," several Charlie Chan movies and even "Gidget Goes Hawaiian." Viewers can spot Oahu's landmarks, such as Diamond Head and Waikiki's Royal Hawaiian Hotel, in many of these movies.

The lush, mountainous island of Kauai is something of a chameleon, standing in for everything from various South Seas islands ("South Pacific," "Donovan's Reef," "6 Days 7 Nights"), Key West ("Islands in the Stream"), a South American dinosaur park ("Jurassic Park"), Southeast Asia ("Uncommon Valor") and Peter Pan's Never-Never Land ("Hook").

The Big Island of Hawaii, with its diverse landscape encompassing everything from volcanoes to black sand beaches to rainforests to grassy ranch lands, is another popular location for filmmakers: "Bird of Paradise," "The Old Man and the Sea" and "Waterworld" are among

the more than 20 movies that have been filmed on the Big Island.

In addition to the stories they tell, movies filmed in Hawaii create a visual story of how Hawaii has changed over the years from quiet, rural islands dominated by plantations to today's popular tourist destination and busy crossroads of the Pacific. Movies from the 1940s and 1950s, filmed before the post-war tourism boom, give a poignant glimpse of the lost Hawaii that existed before it was filled with hotels and golf courses, while today's filmmak-

ers are exploring aspects of Hawaii's history and culture that go beyond the stereotypical tropical paradise or WWII themes of earlier films.

Here is just a sampling of some movies set in Hawaii, most of which are available on video:

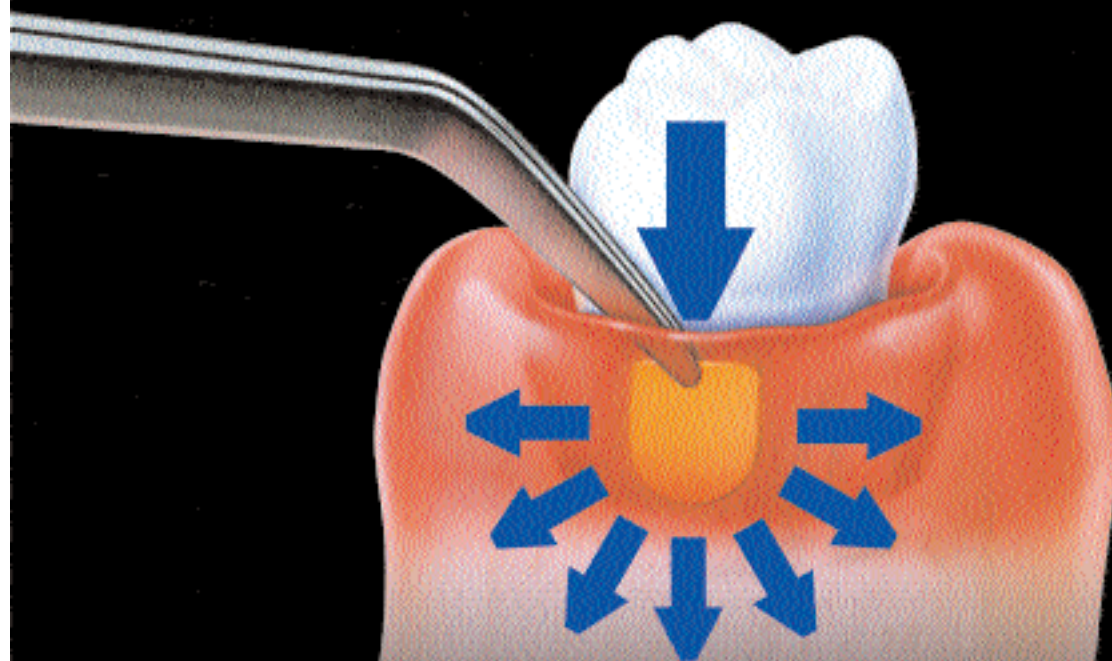
- "From Here to Eternity"—Deborah Kerr and Burt Lancaster embracing in the surf is a classic Hollywood image. But the Academy Award-winning movie offers much more than that famous scene. Based on James Jones' novel, the movie focuses on the personal crises

See MOVIE, page 10



Beefcake bingo: "From Here to Eternity" stars Burt Lancaster and Deborah Kerr.

Powerful Attack Without Resistance



Subgingival, sustained delivery of chlorhexidine helps reduce probing pocket depth in adult periodontitis

Destroys periodontitis-causing pathogens without bacterial resistance

- Average level of chlorhexidine maintained at $>125 \mu\text{g/mL}$ for at least 3 days after insertion—same concentration inhibits 99% of subgingival bacteria¹
- Pocket exposed to chlorhexidine for at least 7 days
- Broad-spectrum action with minimal risk of bacterial resistance, unlike antibiotics¹

Significant improvements in PD and maintenance of CAL^{2*}

- Over 45% more effective in reducing PD vs. SRP[®] alone ($P=0.00001$, pooled data from 2 studies)³
- ≥ 2 mm PD reduction in over twice as many patients vs. SRP alone ($P<0.0001$, pooled data from 2 studies)³

Simple to use

- Can be inserted in less than 1 minute⁴
- Ready to use without any need of mixing
- Bioabsorbable—does not require removal

PERIOCHIP is indicated as an adjunct to SRP for periodontal pockets ≥ 5 mm

PERIOCHIP should not be used in any patient who is hypersensitive to chlorhexidine. The most frequently observed adverse events in the 2 pivotal clinical trials (PERIOCHIP vs. placebo group) were toothache (51% vs. 41%), upper respiratory tract infection (28% vs. 26%), headache (27% vs. 28%), and sinusitis (14% vs. 13%), respectively.

*PD = probing pocket depth; CAL = clinical attachment level; SRP = scaling and root planing.

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Please see brief summary of Prescribing Information on the following page.

PerioChip
2.5 MG (chlorhexidine gluconate)
Delivers measurable outcomes

AstraZeneca

PRC

Continued from page six

Many of PRC's patented technologies can be licensed to several different manufacturers who will use it in unique applications, Dr. Eichmiller adds, thus allowing many companies and consumers to benefit from the work of Paffenbarger scientists.

"The foundation tries to license technologies in a non-exclusive basis so more than one company can benefit, but sometimes manufacturers prefer to obtain an exclusive license to protect their products," he says. "This is why licenses are often spread around—granted for one product or application only—which allows many companies to focus on making one product that best fits their individual strengths." ■

Movie

Continued from page 10

of a group of soldiers stationed on Oahu in the days leading up to Pearl Harbor. Other stars featured in the film include Frank Sinatra as the scrappy soldier, Maggio; Montgomery Clift as an ex-boxer haunted by his past and Donna Reed as a jaded dance hall hostess. Check out the scenes between Kerr and Lancaster on Waikiki Beach for a glimpse of what the beach looked like before it was lined by a wall of high-rise hotels. The famous surf scene was filmed at Halona Cove, also known as From Here to Eternity beach, about 10 miles from Waikiki.

- “In Harm’s Way”—This movie is a must for John Wayne fans and World War II movie buffs. The 1965 movie, directed by Otto

Preminger, follows the lives and loves of a group of Navy officers and nurses in the early days of WWII. Wayne gives a fine, understated performance as a Navy captain struggling to come to terms with his son; Patricia Neal plays the warm-hearted Navy nurse who loves him; Kirk Douglas plays a self-destructive Navy officer; and Burgess Meredith is a suave Hollywood scriptwriter. Even in black and white, Hawaii never looked lovelier, especially in the party scene where Wayne and Neal first meet.

- “Diamond Head”—Charlton Heston stars as a domineering pineapple-plantation magnate who forbids his younger sister to marry a native Hawaiian in this soapy 1962 movie.
- “Blue Hawaii”—This Elvis Presley musical, filmed in Kauai, is silly but good-natured fun, filled with lovely scenery and terrific



Beach conflagration: Makapuu Beach Park’s 1,000-foot-long white-sand beach is the site of the famous Burt Lancaster-Deborah Kerr love scene in “From Here to Eternity.”

songs. Presley plays a young man who rebels when his parents pressure him to settle down and manage their pineapple plantation. Presley performs several songs that later became his trademarks, including “Blue Hawaii” and “Can’t Help Falling in Love With You.” Angela Lansbury, who was actually only a few years older than Presley, costars as his disapproving mother. Presley followed up this film with two more musicals set in Hawaii: Girls, Girls, Girls and Paradise, Hawaiian Style.

- “Hawaii”—Julie Andrews and Max Von Sydow star as a pair of New England missionaries in this 1966 movie adaptation of James Michener’s first epic novel. Unlike the book, which spans Hawaii’s history from the 8th century to the islands’s entrance into the union in 1959, the movie focuses mostly on the Yankee missionaries who came to the islands in the early 19th century determined to convert the islanders to Christianity.
- “Black Widow”—Debra Winger and Theresa Russell star in this well-crafted thriller about a cat-and-mouse game between a beautiful young woman who murders a string of rich husbands (Russell) and the gutsy FBI agent who is hot on her trail (Winger). The second half of the movie was filmed on the Big Island.
- “Picture Bride”—This Japanese film, filmed on the Big Island, won the audience favorite’s award at the 1995 Sundance Festival. The movie, directed by Hawaiian-born Kayo Hatta, is about a teen-aged Japanese girl who travels to Hawaii in 1918 to marry a Japanese sugar cane plantation worker. The movie traces her transformation from the heartbroken bride who learns that her husband is really much older than he appeared in his picture to a strong, determined woman.
- “Beyond Paradise”—In this 1998 independently-produced film, a young man moves from California to Hawaii and becomes friends with three kama’aina (island-born residents). ■

Brief Summary
001605R01

PerioChip® 2.5 mg (chlorhexidine gluconate)

INDICATIONS AND USAGE

PerioChip is indicated as an adjunct to scaling and root planing procedures for reduction of pocket depth in patients with adult periodontitis. PerioChip may be used as a part of a periodontal maintenance program, which includes good oral hygiene and scaling and root planing.

CONTRAINDICATIONS

PerioChip should not be used in any patient who has a known sensitivity to chlorhexidine.

PRECAUTIONS

General

The use of PerioChip in an acutely abscessed periodontal pocket has not been studied and therefore is not recommended. Management of patients with periodontal disease should include consideration of potentially contributing medical disorders, such as cancer, diabetes, and immunocompromised status.

Information for Patients

Patients should avoid dental floss at the site of PerioChip insertion for 10 days after placement, because flossing might dislodge the chip. All other oral hygiene may be continued as usual. No restrictions regarding dietary habits are needed. Dislodging of the PerioChip is uncommon; however, patients should be instructed to notify the dentist promptly if the PerioChip dislodges. Patients should also be advised that, although some mild to moderate sensitivity is normal during the first week after placement of PerioChip, they should notify the dentist promptly if pain, swelling, or other problems occur.

Carcinogenesis, Mutagenesis, Impairment of Fertility

Chlorhexidine gluconate has not been evaluated for carcinogenic potential in connection with the PerioChip. No evidence that chlorhexidine gluconate has potential to cause genetic toxicity was obtained in a battery of mutagenicity studies, including (in vitro) an Ames assay, a chromosome aberration assay in CHO cells, and (in vivo) a micronucleus assay conducted in mice.

Pregnancy

Teratogenic Effects: Pregnancy Category C—Animal reproduction studies have not been conducted in relation to PerioChip, because animal models that would permit use of a clinically relevant route of administration are not available. Chlorhexidine gluconate did not induce harm to the fetus when administered to rats by gavage at dosages up to 58.5 mg/kg/day. While chlorhexidine is known to be very poorly absorbed from the GI tract, it may be absorbed following placement within a periodontal pocket. Therefore, it is unclear whether these data are relevant to clinical use of PerioChip. In clinical studies, placement of four PerioChips within periodontal pockets resulted in plasma concentrations of chlorhexidine that were at or below the limit of detection. However, it is not known whether PerioChip can cause fetal harm when administered to a pregnant woman or can affect reproductive capacity. PerioChip should be used in a pregnant woman only if clearly needed.

Pediatric Use

The safety and effectiveness of PerioChip in pediatric patients have not been established.

ADVERSE REACTIONS

The most frequently observed adverse events in the two pivotal clinical trials were toothache, upper respiratory tract infection, and headache. Toothache was the only adverse reaction that was significantly higher ($p = 0.042$) in the PerioChip group when compared to placebo. Most oral pain or sensitivity occurred within the first week of the initial chip placement following SRP procedures, was mild to moderate in nature, and spontaneously resolved within days. These reactions were observed less frequently with subsequent chip placement at 3 and 6 months.

Table 1 lists adverse events, occurring in $\geq 1\%$ of 225 patients that received PerioChip, pooled from the two pivotal clinical trials without regard to causality. Gingival bleeding was the only dental adverse event occurring at a rate of $\leq 1\%$ in both groups.

Table 1
Adverse events (frequency $\geq 1\%$ for the PerioChip group) reported from 2 live-center U.S. clinical trials

	PerioChip Total N = 225		Placebo Chip Total N = 222	
	N	%	N	%
All patients with Adverse Events	169	85.8	169	85.1
Toothache*	114	50.7	92	41.4
Upper resp tract infection	64	28.4	58	26.1
Headache	61	27.1	61	27.5
Sinusitis	31	13.8	29	13.1
Influenza-like symptoms	17	7.6	21	9.5
Back pain	15	6.7	25	11.3
Tooth disorder**	14	6.2	15	6.8
Bronchitis	14	6.2	7	3.2
Abscess	13	5.8	13	5.9
Pain	11	4.9	11	5.0
Allergy	9	4.0	13	5.9
Myalgia	9	4.0	9	4.1
Gum hyperplasia	8	3.6	5	2.3
Pharyngitis	8	3.6	5	2.3
Arthralgia	7	3.1	13	5.9
Dysmenorrhea	7	3.1	13	5.9
Dyspareunia	7	3.1	8	3.6
Rhinitis	6	2.7	11	5.0
Coughing	6	2.7	7	3.2
Arthritis	6	2.7	4	1.8
Hypertension	5	2.2	6	2.7
Stomatitis ulcerative	5	2.2	1	0.5
Tendinitis	5	2.2	1	0.5

*Includes dental, gingival or mouth pain, tenderness, aching, throbbing, soreness, discomfort, or sensitivity

**Includes broken, cracked or fractured teeth, mobile teeth, and lost bridges, crowns, or fillings

INSTRUCTIONS FOR INSERTION

PerioChip® 2.5 mg
(chlorhexidine gluconate)



1. Open individual foil packet.



2. Grasp PerioChip® at flat end with suitable forceps.



3. Insert PerioChip®, curved end first, into the periodontal pocket.



4. Press PerioChip® apically to the base of the pocket.



5. After proper insertion, PerioChip® should rest subgingivally at the base of the pocket.

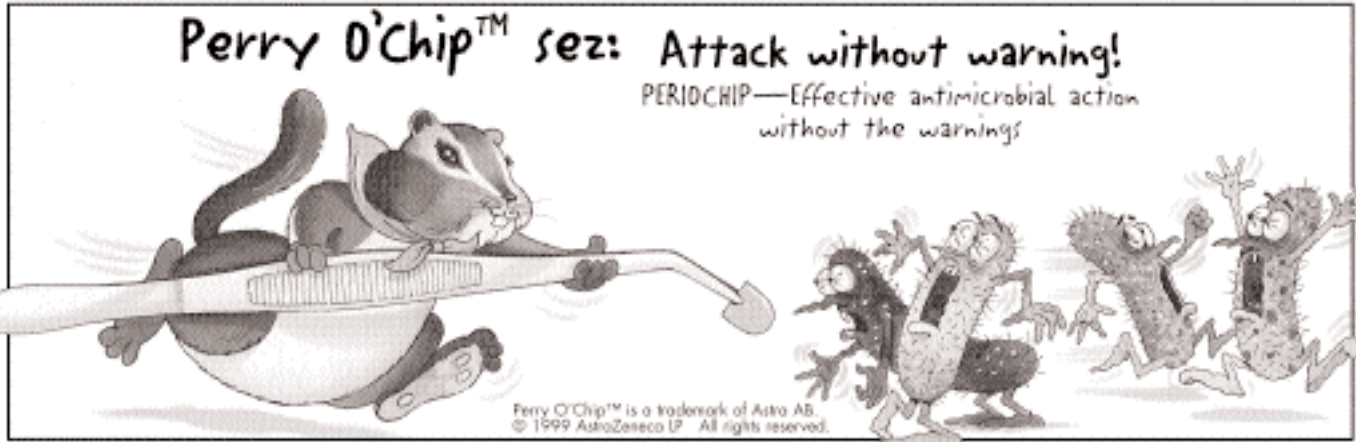
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231-01

001605R01 Iss. 5/98

References: 1. Stanley A, Wilson M, Newman HN. The in vitro effects of chlorhexidine on subgingival plaque bacteria. *J Clin Periodontol*. 1989;16:259-264. 2. Briner W, Buckner R, Rebski G, Manhart M, Binning D. Effect of two years' use of 0.12% chlorhexidine on plaque bacteria. *J Dent Res*. 1989;68 (Spec Iss):1719-1721. 3. Jeffcoat MK, Bray KS, Ciancio SG, et al. Adjunctive use of a subgingival controlled-release chlorhexidine chip reduces probing depth and improves attachment level compared with scaling and root planing alone. *J Periodontol*. 1998;69:989-997. 4. MacNeill SR, Johnson VB, Kiloy WJ, Yonke M, Blüchhaus L. The time and ease of placement of the chlorhexidine chip local delivery system. *Comp Cont Educ Dent*. 1998;19:1158-1167.



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IMPRESSIONS

Denver clinic serving low-income residents earns '99 CAPIR honors

BY CLAYTON LUZ

A dental clinic in Denver that serves low-income residents and a Boston University dental program for seniors received this year's Community Preventive Dentistry Award and Geriatric Oral Health Care Award, respectively.

The awards were presented at a special recognition luncheon Saturday.

The dental program at Inner City Health Center provided low-income residents of Denver's northeast metropolitan area with com-

plementary dental care treatment and services totaling more than \$300,000 during the first seven months of its current fiscal year.

Since 1983, the dental program at ICHC has provided screenings, dental education in prevention and maintenance, hypertension screening, oral cancer detection and referral for treatment, evaluation for child and spousal abuse, smoking and tobacco cessation programs and complete

dental care including all aspects of restorative dentistry.

Additionally, the program offers the Pediatric Dental Caries Prevention Program: a joint venture between the dental program and the Pediatric Department at ICHC intended to eliminate dental caries in the very young by weaning one-year-old children off bottles.

In recognition of ICHC's efforts, the ADA Council on Access, Prevention and



Interprofessional Relations chose the Dental Program at Inner City Health Center as the 1999 Community Preventive Dentistry Award recipient.

The dental program at ICHC conducted more than 2,700 patient treatments in a state where 85 percent of African-Americans and 65 percent of Hispanics suffer from periodontal disease, respectively. The only private dental clinic in the Denver metro area, ICHC offers crown and bridge work on a sliding scale to non-indigent individuals.

The program also provides instruction for students pursuing careers in the dental profession. Volunteer dentists donate about 64 hours a month at the center. Additionally, four other private dentists donate their services in their private offices. Dental students from the University of Colorado School of Dentistry and other dental programs serve as dental volunteers.

The Community Preventive Dentistry Awards were established in 1972 through the ADA Health Foundation, with support from Johnson and Johnson Consumer Products Inc.

The first-place program will be awarded \$2,500 and a wall plaque during this year's annual session in Honolulu.

The dental program mostly serves adults and children in emergency situations. The ICHC works with local dental professionals, community organizations, businesses and other medical and dental organizations.



Meritorious awards of \$500 will be awarded to three other programs:

- "Hope Dental Clinic," a nonprofit organization which provides basic preventive and restorative dental care to underserved adults and children in Ypsilanti, Mich.

The clinic's dental services include screenings, oral health education, full treatment plans and referrals to specialists. The clinic also participates with local social service programs offering substance abuse counseling, health services for the medically indigent and dental evaluations for children in the Head Start program. Additionally, the clinic conducts screenings at two elementary schools one-half day a month.

Hope Dental Clinic receives funding awards and in-kind support and products from foundations, grants and private initiatives;

- "The Lewis and Clark County Cooperative Health Center Dental Clinic," was established in 1994 to provide cost efficient, quality dental care to the residents of Helena, Mont., who are unable to afford treatment and preventive care. The clinic is part of the Cooperative Health Center, a federally funded community health center at the Lewis and Clark City-County Health department.

The clinic, which provides basic dental and prevention education services, also works with several community agencies to provide dental services for underserved individuals such as homeless persons; Head Start children; unwed mothers; youths in juvenile offender homes and persons of the Helena Indian Alliance.

The program is funded by sliding scale patients' fees, insurance and Medicaid payments, federal and county government funds;

- "OPTIONS—Ohio Partnership to Improve Oral Health Through Access to Needed Services," is offered by the Ohio Dental

See CAPIR, page 16

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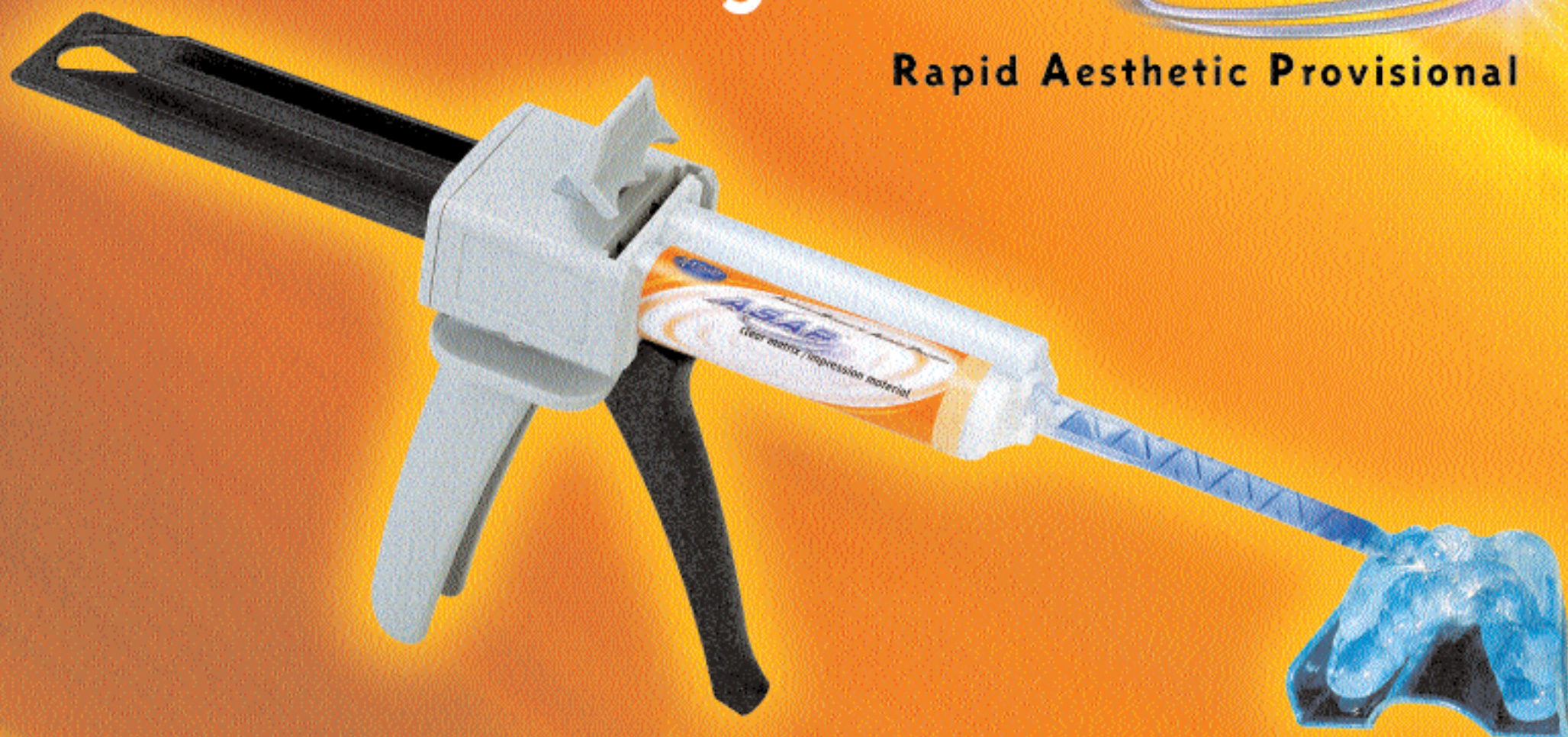
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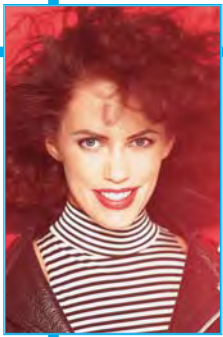


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A Reason to Smile

CAPIR

Continued from page 12

Association and the Ohio Department of Health. The program links qualified patients needing dental services with practitioners who provide reduced or donated dental fees through a combination of two primary oral health access programs—Dentistry For All, a reduced-fee program and Donated Dental Services, a no-fee program.

In 1984 CAPIR, through the ADAHF, with support from Warner-Lambert Co. Consumer Health Products Group, established the Geriatric Oral Health Care Award. The award recognizes individuals and organizations who have improved the oral health care of older Americans through innovative community

health care delivery projects.

The Boston University School of Dental Medicine Geriatric Consult Service will receive this year's 1999 Geriatric Oral Health Care Award during annual session, along with a \$2,500 check and wall plaque. The program provides care for frail, homebound older adults in the greater Boston area who are unable to access routine dental services.

The Geriatric Dentistry Division of Boston University School of Dental Medicine, in cooperation with the Boston University School of Medicine Home Medical Service, started the program in 1984.

Dr. Jack Vincent, senior director of dental affairs for Warner-Lambert, says, "We at Warner-Lambert are very pleased that Dr. Paula Friedman is to receive this year's award for geriatric oral health care. We share the common goal

of the ADA in trying to improve the oral health of the public and enhancing access to care for those in need."

The program provides initial dental evaluations, cleanings and home-based fabrication of complete and partial dentures. Providers work with case managers to arrange transportation to the dental school for patients for whom home services are inappropriate.

The Boston University School of Dental Medicine underwrites the program, along with contributions from the Health and Human Services Bureau of Health Professions Geriatric Medicine and Dentistry Fellowship Award. School of Dental Medicine faculty members contribute in-kind support. Revenue generated by the program is returned to the general revenue of the Boston University School of Dental Medicine. ■



Photo courtesy of Hawaii Visitors Bureau

Kauai view: The Na Pali coastline. "Pali" means cliff in Hawaiian, and these cliffs rise 4,000 feet.

Islands offer peak performance

BY STACIE CROZIER

Hawaii—As a tectonic plate beneath the Pacific Ocean shifts its way across a "hot spot" on the ocean floor—at a less than breakneck speed of three to six inches each year—the geology and topography of this chain of islands is ever-changing.

Though 2,500 miles from the nearest land mass, the eight main islands of this Pacific Ocean archipelago paradise are actually the peaks of huge volcanoes—the youngest additions to a range of volcanoes that stretches up 3,100 miles to the Aleutian Trench in the North Pacific.

The volcanoes are born when a weak spot in the ocean floor plate rides over a stationary "hot spot," allowing liquid magma to escape and build up into huge "shield" volcanoes.

As these dome-shaped volcanoes inch beyond the hot spot, they eventually cool, become dormant and later become extinct. Most of the Hawaiian Island volcanoes are considered dormant or extinct, but a few active sites still serve as a constant reminder of the fireworks at the earth's core. Experts estimate that the hot spot under the Pacific plate has been generating volcanoes for about 70 million years.

Kilauea, the area's most active volcano, first erupted in 1983. It has already spewed more than a billion cubic yards of lava and created about two square miles of new land to the Big Island.

The Big Island's lofty peaks of Mauna Kea, an older and dormant volcano, and Mauna Loa, a younger and still active volcano, are bound together underneath the ocean's surface. Together they comprise the largest volcanic structure on the earth. Mauna Kea's summit rises to 13,796 feet, but when measured from ocean floor to peak, it is taller than Mount Everest.

About a mile below the ocean's surface and about 20 miles off the Big Island is a newly forming shield volcano, Lo'ihi. Its eruptions have not yet broken the surface and this newcomer is not expected to emerge for at least 100,000 years.

The face of the islands, exposed to time, rain, wind and waves also gradually changes, as volcanoes erode and eventually disappear under the ocean. The oldest northwest islands in the Hawaiian chain, now uninhabited, are flat-topped and almost under water. The geography of Kaua'i, the oldest of the main islands, features many canyons and caves typical of an extinct volcano in a late stage of erosion. ■



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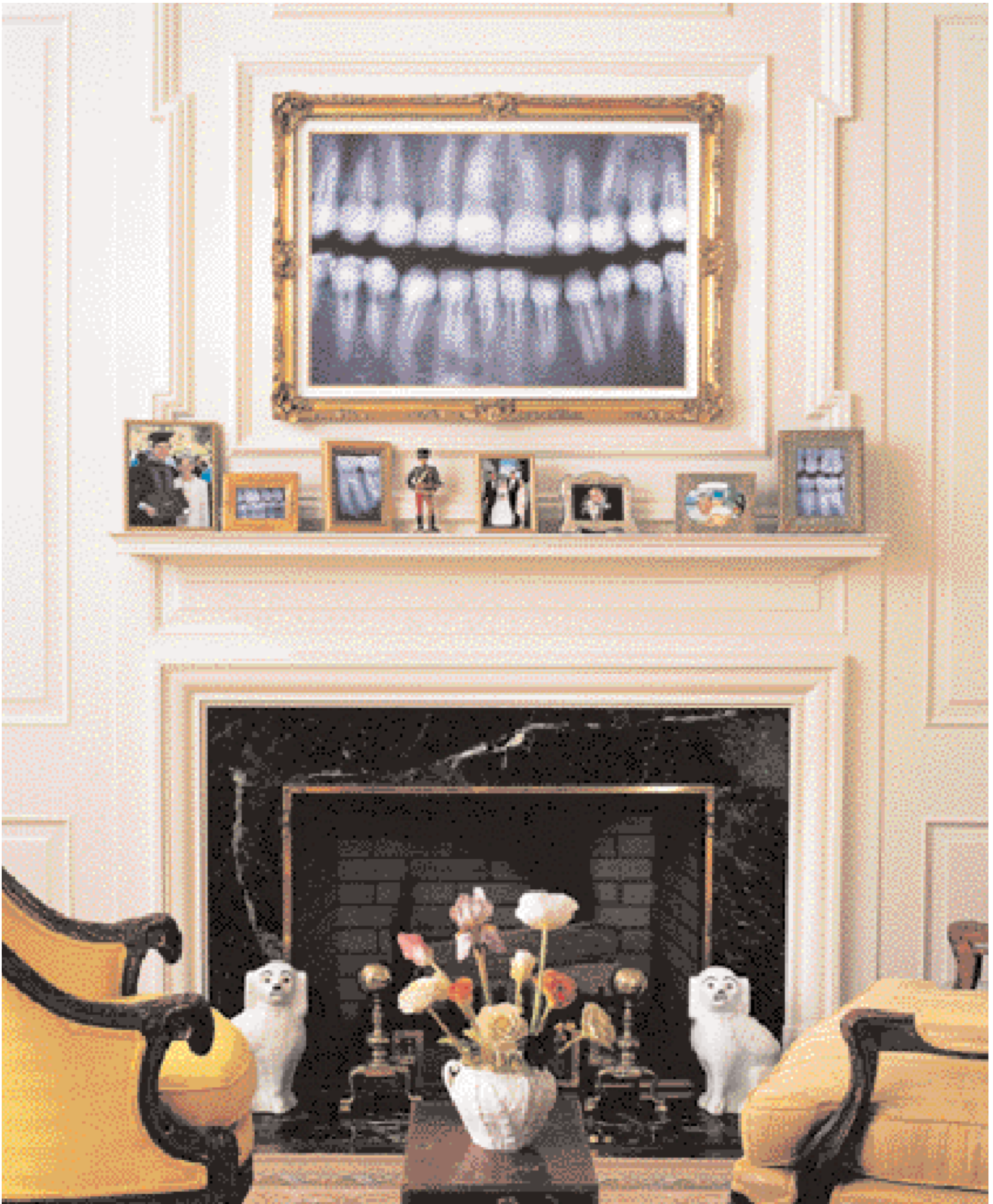
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Golden Apples honor achievements

Top 13 state and local dental societies receive awards

BY KAREN FOX

For the 11th year, the ADA's Golden Apple Awards honored the outstanding achievements of state and local dental societies by presenting 13 awards Saturday at a special recognition luncheon.

Dr. Luis J. Fujimoto, New York, received the 1999 Golden Apple New Dentist Leadership award, recognizing his leadership initiatives in organized dentistry and his community.

The Nebraska Dental Association, a constituent society with total membership fewer

than 1,000 dentists, was recognized for legislative achievement for its "Medicaid Solution." Also receiving a Golden Apple for legislative achievement was the South Carolina Dental Association for "Patient Protection" and the Illinois State Dental Association for the "1999 Sweeping Success Story."

In the category of best membership recruitment and retention activity, the East Coast District Dental Society's (Florida) "Dentist's Day" received a Golden Apple for membership recruitment. The Philadelphia County

Dental Society "Reception for Women Dentists and Dental Students" was recognized for membership retention.

In excellence in dental health promotion, the Massachusetts Dental Society's "A Healthy Toothousand" received a Golden Apple in the constituent society category. Multnomah Dental Society's "Northeast Children's Health Fair" was recognized in the component society category.

In the best member service/benefit category, the Missouri Dental Association, a society with total membership of more than 1,000

dentists, received a Golden Apple for "Expanded Functions of Dental Assistants."

For outstanding achievement in the promotion of dental ethics awareness, the Dental Society of the State of New York received a Golden Apple for the "DSSNY Ethics Enforcement Structure."

For achievement in dental school/student involvement in organized dentistry, the Washington State Dental Association's "WSDA Mentor Program" received top honors. The Connecticut State Dental Association's "New Dentist Program" received an honorable mention.

The Golden Apple for excellence in science fair program support and promotion went to the Arkansas Valley Dental Society for their "Supporting and Encouraging Youth" project. ■

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the world's first plaque remover engineered to actively clean in *three* brushing dimensions at once. By combining gentle, high-speed pulsations and ultra-speed oscillations, the Braun Oral-B 3D penetrates between teeth and

below the gumline to loosen even hard-to-reach plaque, then sweeps it away.

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Fact is, no other plaque remover in the world cleans like the Braun Oral-B 3D. Which is why now there's clearly no better brushing method to recommend to your patients for optimal home care.

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Eden: The Limahuli Garden forms part of the National Tropical Botanical Garden.

Photo by Robert Holmes, courtesy of Hawaii Visitors Bureau

Find Well-Being in session booth

Would you like to know how to help a colleague, family member or friend dealing with chemical dependency, infectious disease, a mental health problem or debilitating stress and/or burnout?

Stop by the Well-Being Booth in the ADA Pavilion in the third floor lobby of the Hawaii Convention Center. The Well-Being Booth, sponsored by the ADA Council on Dental Practice, can provide you with the information you need through a variety of videos, literature or on-hand staff and volunteers who can answer your questions.

Also, information on dates, times and locations of 12-Step meetings in Honolulu are available.

Registered visitors will have a chance to win one of the booth's twice-daily raffles Monday. Drawings will be held for T-shirts, mugs and other recovery-related prizes. ■

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IMPRESSIONS

Table clinics allow students to showcase accomplishments

Honolulu—Outstanding student table clinicians will represent their dental schools and showcase their accomplishments in clinical and research dentistry as they present their clinics today for judging in the 41st ADA/Dentsply Student Table Clinic Competition at the ADA annual session.

Judging will be held in a closed session this morning. All clinics will be open for viewing from 1-3 p.m. on the second floor of the Ala Moana Hotel, across the street from the Hawaii Convention Center.

Competition winners will present their clinics

tomorrow to session-goers from 9:30 a.m.-noon at the Hawaii Convention Center in the third-floor lobby outside the meeting rooms. Two hours of continuing education credit can be earned by attending today's clinics and one hour for tomorrow's clinics.

The program, which is financially underwritten by Dentsply International Inc. invites the table clinic winners from every dental school in the United States and Puerto Rico accredited by the ADA Commission on Dental Accreditation.

Category 1: Clinical Application and

Technique

Judges for Category 1 are Drs. John Olmsted, Shirley Austin, Stephen B. Corbin, Cordell Fisher, Peter Guevara, Brenda J. Harman, Arthur Hunger Jr., Keith Krell, Dan Middaugh, Jack Penhall and John S. Rutkauskas.

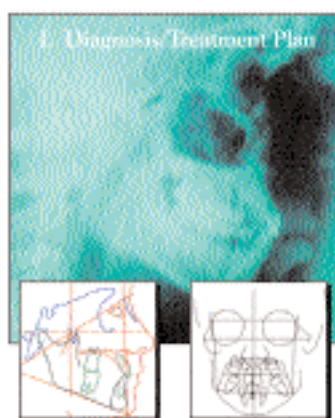
Category 1 entrants:

- E1 "Temporization of Veneer Preparations," Lyndsay N. Knoell, Marquette University School of Dentistry;

- E2 "Advances in Instrumentation Technique: What to be Concerned About," Soroush Esfandiari,

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"Synergy develops when two or more interactive parts of a system produce an effect of which the parts are incapable of producing." Stated another way, "the power of the whole becomes far greater than the sum of the parts."



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II. a. Correct orthopedic/facial profile relationships using the Kussick Orthopedic Incline® or the Kussick Tongue Retainer/Open Bite Corrector. (Worn only 2-3 hours during the day and during sleep.) Average time required to achieve significant beneficial orthopedic change for children of age 7-11 is 8 months to 1 year.



Kussick Orthopedic Incline® Kussick Tongue Retainer

Note: Most pedodontic/family dental practices can successfully intercept orthopedic and psychological traumas with the basic understanding and skills of these two Kussick Bone Remodeling appliances.

b. If fixed appliance therapy is preferred, use appropriate RMO Wilson® 1st Phase Fixed/Removable® and/or RMO Ricketts Bioprogressive® appliance modules.

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Photo by Michael Maurello

Standing tall: A statue of King Kamehameha, Hawaii's favorite son.

University of Texas Health Science Center—Dental Branch, Houston;

- E3 "Distraction Osteogenesis: Stretching Bone to the Limit," Jennifer L. Wiens, University of Detroit Mercy School of Dentistry;

- E4 "Composite Failures: A Study to Enhance Their Development," Seanica M. VanHoutan, University of Missouri—Kansas City School of Dentistry;

- E5 "The Intrusion of Excessively Erupted Teeth," Phuong N. Nguyen, Louisiana State University School of Dentistry;

- E6 "Changes In Spirochetal Profile of Three Periodontal Treatment Modalities," Nihar D. Tanna, West Virginia University School of Dentistry;

- E7 "Effect of Vibrational Force on Resin Composite Restorative Materials," Michael C. Wilson, Medical University of South Carolina College of Dental Medicine;

- E8 "Influences of Thermal Effects on Dental Implants Correlated to Laser and Electrosurgery Treatments," Jason T. Morris, Creighton University School of Dentistry;

- E9 "Actinomyces Ab Titer as a Means to Predict the Results of SRP Therapy," Matthew J. Burton, University of Oklahoma Health Sciences Center College of Dentistry;

- E10 "Third Year Student's Clinical Skills: A Microleakage Study of Class II Bonded Amalgams, Class III and Class V Composite Restorations," Andrew W. Skorobatchkyj, Case Western Reserve University School of Dentistry;

- E11 "In Vitro Replication and Quantification of Fractures in Internally Hexed Endosseous Implants," Steven J. Hyten, Southern Illinois University School of Dental Medicine;

- E12 "A Website Promoting Women's Oral Health Issues," Melissa J. Wages, Loma Linda University School of Dentistry;

- E13 "Mercury Release into Flowing Media from Dental Amalgams," Bryan S. Elvebak, Baylor College of Dentistry;

- E14 "Simulation of Occlusal Contact Wear of Human Enamel," Keri L. Miller, University of Alabama School of Dentistry;

- E15 "Dental Student Involvement in the Assessment of Pediatric Dental Needs," Heidi J. Stark, University of Nebraska Medical Center College of Dentistry;

- E16 "Composite Filling Technique—Class II Restorations," Matthew O. Cox, University of Colorado Medical Center School of Dentistry;

- E17 "Doctors Out of Care," Belinda Simoni, University of Southern California School

See CLINICS, page 22

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Oral cancer kills more people nationwide than skin cancer or cervical cancer. Studies show that oral lesions appear in 5–15% of the patients you see. Even common-looking lesions could be precancerous or cancerous. Now, for the first time, there's a tool that takes the guesswork out of identifying the ones that need further attention.

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- **Reimbursable procedure**
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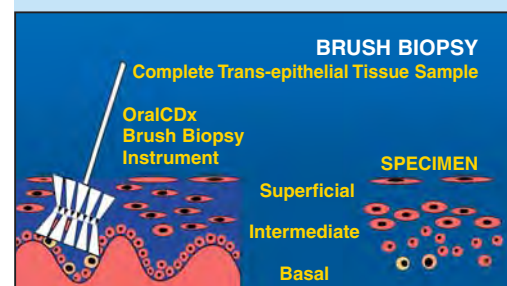
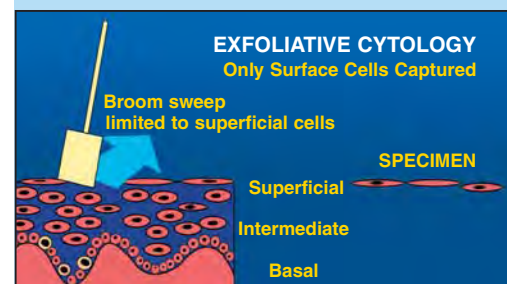


What is OralCDx?

Unlike exfoliative cytology, the OralCDx brush biopsy obtains a full trans epithelial oral biopsy.

The supplied biopsy brush (pictured above) captures a disaggregated tissue sample of all three epithelial layers: superficial, intermediate and basal.

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* Laboratory will automatically detect incomplete biopsy specimens and analyze repeat specimens free of charge.

** Nationwide clinical trial performed at thirty-five academic dental centers by leading specialists in oral pathology, oral medicine, and oral surgery. Published in JADA, October, 1999.

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Honolulu—"It ain't braggin' if you can do it," Hall-of-Famer pitcher Daffy Dean once said.

For more than 40 years at ADA annual session, outstanding student table clinicians have shown they "can do it."

Come see student clinicians showcase their accomplishments in research and clinical aspects of dentistry in the ADA/Dentsply national table clinic competition.

Sponsored by ADA/Dentsply, the clinics are open to all session attendees today from 1-3 p.m. in the table clinic area on the sec-

ond floor of the Ala Moana Hotel, across the street from the Hawaii Convention Center. During the morning, judging will be held in a closed session.

The program is financially underwritten by Dentsply International Inc.

According to George Rhodes, vice president, professional relations and corporate communications, Dentsply International, the program offers those at session a glimpse of the future as well as research trends.

"History shows that tomorrow's dental

leaders will emerge from this program," said Mr. Rhodes.

"The program also serves as a window to much of the research being conducted in America's dental schools," he added.

Each dental school accredited by the ADA Commission on Dental Accreditation is invited to send the winner of its table clinic competition to annual session.

The winners will present their table clinics for bragging rights, er, viewing, tomorrow from 9:30 a.m.-noon at the Hawaii Convention Center, third floor. ■

Clinics

Continued from page 20

of Dentistry;

- E18 "Effects of Irrigating Solutions on the Smear Layer Using Product X Endodontic Rotary Instrumentation," Alexander Ahn, Meharry Medical College School of Dentistry;

- E19 "Clinical and Microbiological Effects of Experimental Gingivitis," Brian L. Ting, Tufts University School of Dental Medicine;

- E20 "Wear Behavior of Flowable and Condensable Composite Resins," Hang M. Dang, Virginia Commonwealth University School of Dentistry;

Category 2: Basic Science and Research

Judges for Category 2 are Drs. Richard Tatum, Robert Augsburger, Carmen Yolanda Bonta, Thomas Emmering, Joseph V. Levy, Theresa Madden, Mirdza E. Neiders, Linda C. Niessen, Rahele Rezai, Richard G. Shaffer, Guy S. Champagne, Roger Stambaugh, Rada Sumareva and Thomas Van Dyke.

Category 2 entrants:

- F1 "Distribution of Fos-like Immunoreactivity Following Temporomandibular Joint Inflammation," Brandon K. Ellis, University of Maryland Baltimore College of Dental Surgery;

- F2 "Effects of a Dominant Negative BMP Receptor on Retinoic Acid Induction of Alkaline Phosphatase," Tatyana Kaganova, University of Pennsylvania School of Dental Medicine;

- F3 "Renal Adenosine A3 Receptors in the Rat: Assessment of Functional Role," Brett K. Warren, Medical College of Georgia School of Dentistry;

- F4 "TrkA-immunoreactivity and Plasticity of Periodontal Ligament Epithelia Suggests New Functions," Dale A. Woodnutt, University of Washington School of Dentistry;

- F5 "Splice Variants of Nestin in Dental Pulp Tissue," Matthew S. Slaven, University of Washington School of Dentistry;

- F6 "Effect of Interleukin-2 and Selenium on the Growth of Squamous Cell Carcinoma In Vivo," Anthony G. Pavone, State University of New York School of Dental Medicine;

- F7 "Incipient Analysis of Mesenchymal Stem Cell-Derived Osteogenesis," Christopher T. Harris, University of North Carolina School of Dentistry at Chapel Hill;

- F8 "The Prevalence of IL-1 Polymorphisms in a Puerto Rican Population: A Pilot Study," Luis A. Lecleres, University of Puerto Rico School of Dentistry;

- F9 "Two Independent Nuclear Localization Signals in Zfphep," Marianne Mills, University of Louisville School of Dentistry;

- F10 "Doc-1 Mediated Apoptosis in Malignant Hamster Oral Keratinocytes," Stephen J. Cwikla, Harvard School of Dental Medicine;

- F11 "Genetic Engineering ... The Future of Dentistry?" Martine A. DeCambre, Howard University College of Dentistry;

- F12 "Induction of c-fos During Orthodontic Tooth Movement in Rats," Jeffrey S. Malone, University of Florida College of Dentistry;

- F13 "Expression of a Putative Bacterial Homologue of the Salivary Na⁺-K⁺-2Cl⁻ Cotransporter in Yeast," Cheryl A. Berkman, Ohio State University College of Dentistry;

- F14 "Bactericidal Activity of Leukocyte Defensins and Salivary Histatins," Truitt A. Savell, University of Tennessee College of Dentistry;

- F15 "Sulfation of Statherin by Human Saliva," Anup Muduli, University of Medicine and Dentistry New Jersey Dental School;

- F16 "Losing Face: the Role of Sonic Hedgehog in Craniofacial Development," Eri Hatt, University of California, San Francisco School of Dentistry;

- F17 "Use of Saliva to Detect Recurrence of Disease in High Risk Breast Cancer Patients," Andrew P. Achord, University of Mississippi School of Dentistry-Medical Center;

See CLINICS, page 24



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Clinics

Continued from page 22

- F18 "Modeling Periodontal Destruction in the Tobacco Addict," Todd F. Jorgenson, Oregon Health Sciences University;
- F19 "The Role of L-tryptophan Amino Acids in Periodontal Diseases," Steve A. DelliGatti, Temple University School of Dentistry;
- F20 "Fas Ligand Expression by Gingival Crevice Neutrophils," Barrett G. Moore, University of Illinois at Chicago College of Dentistry;
- F21 "Characterization of Fusobacterium Nucleatum Plasmid pFN2," Gwynne M. Attarian, University of California, Los Angeles School of Dentistry;
- F22 "S(-)HA-966, A Potential G-Protein Mediated Modulator of Mesencephalic Dopamine

Cell Firing Properties and an Experimental System to Monitor the Single Unit Electrophysiological Effects in the Behaving Rat," Stephen T. Connelly, Columbia University School of Dental and Oral Surgery;

- F23 "Free Radical-Generated Fibronectin Fragments Exhibit Proteolytic Activity," Laji J. James, University of Texas Health Science Center at San Antonio;

● F24, IL-4, IL-6 and IL-11 "Expression in Periapical Lesions of Normal and LPS Hyporesponsive Mice," Adrian W. Acosta, University of Connecticut School of Dental Medicine;

- F25 "Sequence Analysis of the Interleukin-8 (IL-8) Receptor in Localized Juvenile Periodontitis," Shani N. Lewins, State University of New York at Buffalo School of Dental Medicine;

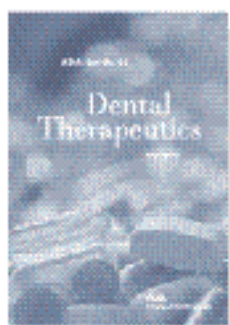


Photo by Michael Maurello

Affordable Diamond: Diamond Head Mountain affords a panoramic view of the Pacific coast.

Location: <http://www.ada.org/adapco/>
subject: annual session show specials

ADA Guide to Dental Therapeutics



The Absolute Authority

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VISIT BOOTH #3006 FOR MORE INFORMATION, DEMONSTRATIONS AND COMPLIMENTARY MATERIALS

- F26 "A New Animal Model for Testing Antibiotic Resistance of Human Microorganisms: Effect of CMTs," Todd E. Bloom, State University of New York School of Dental Medicine, Stony Brook;

● F27 "In Vitro Secondary Caries/Microbial Growth Around Different Dental Materials," Jeff W. Erickson, Indiana University School of Dentistry;

● F28 "The Effects of Fixation Type and Guided Tissue Regeneration on Maxillary Osteotomy Healing in Rabbits," Kraig M. Stetzer, University of Pittsburgh School of Dental Medicine;

● F29 "Quiescently Infected PC12 Cells Rapidly Produce Virus Following Heat Stress," Chris S. Freeman, University of Kentucky College of Dentistry;

● F30 "Responses of Human Osteoporotic Bone Cells to Mechanical Strain," Bhupinder Singh Khanuja, University of Iowa College of Dentistry;

● F31 "Development of Liposomes for Oral Cavity Drug Delivery: Long Term Stability Studies," Tiffani A. Cotter, University of the Pacific School of Dentistry;

● F32 "Micropurification of Acquired Human Enamel Pellicle," Majd Khatib, Boston University-Henry M. Goldman School of Dental Medicine;

● F33 "The Effect of Washing Water on the Properties of Etched Enamel," David J. Schneider, University of Minnesota School of Dentistry.

(At the time of publication, Northwestern University Dental School had also indicated it would be sending a student to participate in the ADA/Dentsply Student Clinician Program. However, school officials had not submitted the name of the student or the title of the clinic in time for publication here.)

The winners of the 1999 Dentsply student clinician competition programs in Australia, Canada, France, Germany, India, Japan, Scandinavia, Thailand and the United Kingdom will also present their clinics today and again with the winning U.S. clinicians tomorrow. International table clinic presentations will include:

● D1 "The Abrasiveness of an Air Power Abrasive System on Exposed Root Surfaces," Mette Skov Jensen, Århus Universitet, Denmark, Scandinavia;

● D2 "A Prevalance of Clinical Signs Associated with Temporal Mandibular Disorders in Non-Academic," Piyanan Kuesakul, Caulalongkorn University, Bangkok, Thailand;

● D3 "A Biometric and Morphologic Study of TMJ," Béatrice Martinez, University of Toulouse, France;

● D4 "A Survey of Alcohol and Drug Use Among UK Based Dental Undergraduates," Ben Underwood, University of Leeds, United Kingdom;

● D5 "Rapid Maxillary Expansion (RME): The Emerging Trend," Mouna B.R., Bangalore Dental College, India;

● D7 "The Metagel System: A Novel Approach to the Study and Treatment of Head and Neck Cancers," Sheri Muradali, McGill University, Canada. ■

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Dentist, inventor, artist ... windsurfer?

Dr. Ray Bowen is dentistry's Renaissance man

BY CRAIG PALMER

Ray Bowen, 73, will be windsurfing off Maui this week, on a surfboard with sails, racing across the water. "A great place to windsurf is from Kanaha Beach Park. There are reefs out a few hundred yards that break up the big waves, so it's only choppy. The side-shore trade winds are almost always strong. You can rely on the wind."

Man against the sea

Post-session and post-surf, Dr. Rafael L. Bowen, ADA Health Foundation, returns to the synthesis of polymerizable cyclodextrin derivatives (PCDs) for potential dental applications.

From 1983 to 1994, he was the director of the ADAHF Paffenbarger Research Center, PRC, located at the National Institute of Standards and Technology. He is now emeritus director and a full-time research scientist.

Dr. Bowen in 1994 was named the Association's first distinguished scientist. This position freed him from most administrative duties to allow a nearly full-time focus on research.

Scientist in search of better restorative materials

However at ease Ray Bowen may be board-surfing or preparing 3-D computer models of den-

tal collagen and bonding agents, it is award and ceremony that discomfites. He makes no bones about unrest at being in the center of another in a long line of award spotlights. "I focus and concentrate on molecules and such, and protocols for public interactions are not my forte."

Saturday at a Special Recognition Luncheon of the Association's 140th annual session, at the Hilton Hawaiian Village, Dr. Bowen received the ADA's highest honor, the 1999 Distinguished Service Award, in recognition of his years of service to the dental profession. The award, bestowed by the ADA Board of Trustees, is the 28th to a line of distinguished recipients, includ-

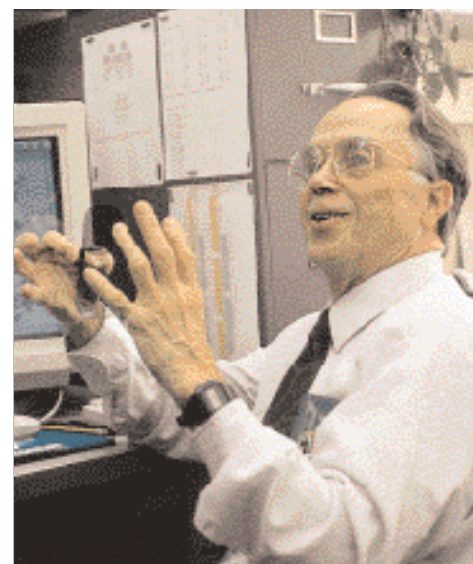


Photo by Anna Ng Delort

Distinguished service: Dr. Bowen is working on ways to improve adhesion bonding.

ing last year's honoree Dr. Samuel D. Harris.

Dr. Bowen was the inventor of the original composite restorative materials. He led the evolution of many of the contemporary adhesive bonding agents and formulated the glass-ceramic inserts for composites. He downplays "invention" as a mere part of the creative process, but thinks that innovation will be required for making the needed improvements in the bonding of composite resins to dentin.

Back in his lab on the Gaithersburg, Md., NIST campus, Dr. Bowen is searching for a better understanding, at the atomic and molecular levels, of processes that might further improve adhesion bonding. This work is supported by grants from the National Institute of Dental and Craniofacial Research, the ADAHF, and the incomparable facilities at NIST.

Science serving practice

"Adhesion to dentin is still not up to the level of adhesion to enamel," he said in a pre-session interview. If it were, there could be "less drilling per filling." The conversation was in the PRC library, one wall graced by a 1985 oil painting of the late Dr. George Corbly Paffenbarger, for whom the PRC was named, the portrait painted by former PRC Director Ray Bowen.

"Right now the goal is to get improved bonding to dentin as well as enamel. If bonding were good enough, dentists could build up whole teeth, front teeth at least, on stumps or very small residues of crowns.

"Any improvement, and I think there is room for improvement, would get multiplied by 150,000 dentists times, say, a thousand patients and that's a lot of people that could benefit in this country alone. I don't know how I could do anything more useful.

Dr. Bowen recently received a five-year grant from the National Institute of Dental and Craniofacial Research to model collagen and to construct PCDs and evaluate them. ■

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Alliance to elect officers

The Alliance of the American Dental Association will elect a new slate of officers during its second House of Delegates meeting this morning in the Molokai Room at the Sheraton Waikiki.

Up for election are Susan Martindale, president-elect; Doris Cunningham, vice president; Jerilyn Bird, recording secretary; and Linda Lowe, comptroller.

Candidates for trustee positions include Genevieve Ziemian, Sylvia Greer, Kay Doran and Isabel Hoe.

Rosemary Grasso will be installed as AADA's 43rd president. Martha Lester will remain on the AADA Board as immediate past president.

Mrs. Grasso's theme for her presidential year will be "2000 and Beyond, AADA's Opportunity to Support Dentistry." ■

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