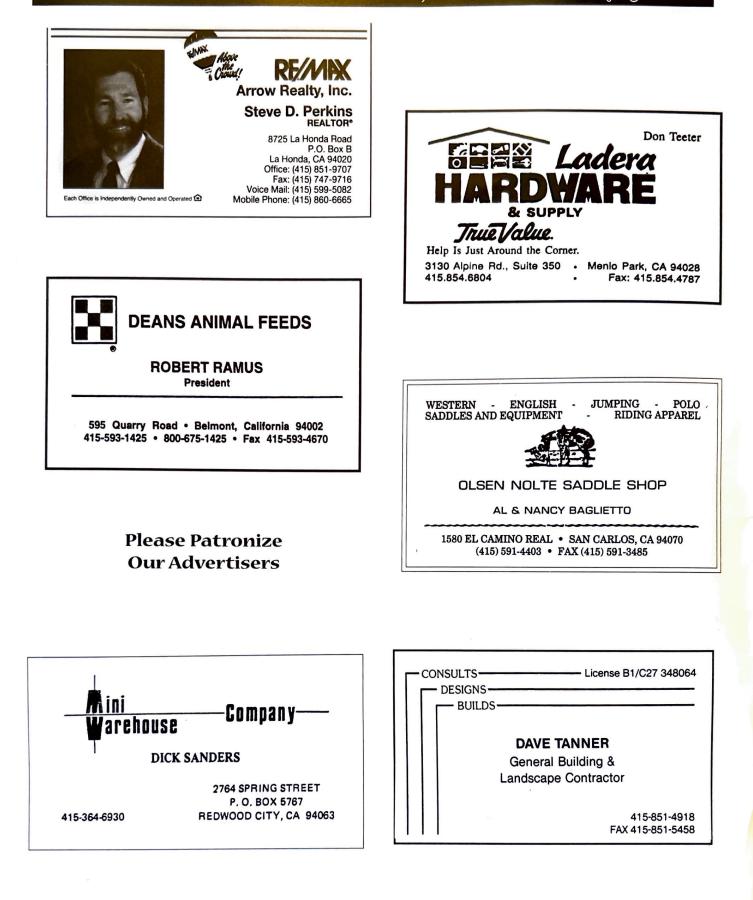




Spring 1997



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## **PRESIDENT'S MESSAGE**

by Bruce Baker

Make room on your refrigerators—we're going to have flyers coming at you left and right!

By the time this magazine goes to print, we will have had our first group ride of the year on April 13th in Huddart Park. Nan Daley has been hard at work getting the site and caterer in line.

The Wrath of Mother Nature took its toll earlier in the year but she has been much kinder in February and March, so the trails should be in excellent shape.

June 28th is the date for our second ride, so be sure to check your mail.

The May Day Parade this year in Woodside is on May 3rd, and we are hoping to have not only our Adult Color Guard, but also a Junior Color Guard. Come to the parade, have a great time and cheer on our groups!

As it turns out, May is going to be quite busy, as we have more educational seminars, the start of our Riding Clinic and, of course, Equifest, sponsored by the California State Horsemen's Association Region 6 (San Francisco, San Mateo, Santa Clara and Santa Cruz Counties) at the Santa Clara County Fairgrounds.

For those of you not familiar with Equifest—it's going to be a two-day horse-related event held May 17th and 18th. There will be numerous demonstrations, lectures and exhibitions going on throughout both days. Vendors of all kinds will also be present.

I think it's important that we show as much support for this event as possible. This is the first show of its kind west of the Rockies and I'd like to think that Kentucky isn't the only place where something like this can be successful!

If you thought May was non-stop, check out the calendar for June! The Riding Clinic gets in full swing along with the Romp & Stomp Ride on June 14th—and then we have our first Western show of the year on June 22nd.

So you're not going to get bored, and if you do—give us a call and we'll put you to work!

One last note, thank you to many of the members and *all* the Board of Directors for your help and support in this year off to a great start.

Bruce Baker

Cover: 1996 Horseman of the Year, Gene Ericksen, 1996 President Donna Tozi and 1996 Horsewoman of the Year, Sue Sheehan

Magazine: Tanya Rebarchik Mailing: Linda Menon Advertising: Eileen Borzone Photos: Dianne Larson Hicks, Virginia Magliano-Darrow and Tanya Rebarchik 1

#### 2

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DEADLINE FOR ADS AND ARTICLES for the Summer 1997 issue is June 15, 1997

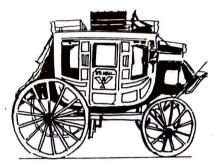


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> Published quarterly January (Winter) April (Spring) July (Summer) October (Fall)



MEMBERSHIP Join SMCHA Mail Application Today! (Application on back cover)

No paid political or religious advertisements will be accepted; all articles submitted are subject to editing; all articles or items reprinted from another source must be cited as to source and permission to reprint; items or articles submitted for publication that are not printed will not be returned to the author or persons submitting them. Editing will be reviewed by a review committee of the President and two board members.

# **INSTALLATION KICK-OFF DINNER**

#### by Donna Tozi

The night was cold and stormy, but this didn't stop 107 of us horse-lovers getting together for a great time at our Kick-Off Dinner. The tables were all decorated with the cutest hand-painted wine glass holders over a bottle of wine. All this year of my presidency it never ceased to amaze me how many talented and helpful people we have in this group. Virginia Magliano-Darrow got her friend Olav Hindahl to hand-cut out these holders. Then Virginia and Dianne Hicks painted them with the most adorable horses, hats, and boots. Our wonderful First Vice President, Mary Beth Stucky and her handsome husband Robert, donated out-of-pocket all of the wine glasses and bottles of wine. THANK YOU!

We had 16 junior members present and they sold raffle tickets for table decorations and nice gifts and presents from local merchants. They raised \$331 for their junior functions.

I had the honor to order and present the gifts and awards this year. Late last year I went to State Convention and won a blanket with leather corner-plates stamped "CSHA 1996". I thought, "What a good idea for the Board!" This way all of you will know your Board members. I ordered them two months before the event but didn't get them until five minutes before the program started. The man that made them drove all the way from Livermore in the pouring rain to hand deliver. I was so nervous! All Board members now have this identification, so please go up and thank them. They do a good job for you.

I also got to pick the couple to honor with Horse-



Outgoing President Donna Tozi receiving her President's Buckle from new President Bruce Baker

woman and Horseman of the year. This was fun. All year I kept choosing and changing who would get this honor. I picked Sue Sheehan for Horse-woman of the Year because she can always be counted on when something needs to be done. Regardless of her own time, she put on wonderful rides and cooked wonderful food for our riders. She even did an extra ride for our group. She owns two horses, one of which she raised. She was presented with a sterling silver picture album with her name, date and award received en-

Continued on page 4

## NOTE FROM THE EDITOR

#### by Tanya Rebarchik

As this is already the second issue since I started as your new editor, I thought I'd take a moment to introduce myself: My name is Tanya Rebarchik, and I have two horses—a 21-year old Appendix Quarter Horse Mare and an 11-year old Peruvian Paso Gelding (whom I half-own).

I've been a SMCHA member for about six years, and this is my third year serving on the Board of Directors.

When Linda Menon—who had been doing a fabulous job as editor for the past five years—asked for help with the magazine a few months ago, I volunteered. Next thing I knew, I was being announced as the new editor!

I'd like to take this opportunity to say a big thank you to Linda for continuing give me lots of support, to Dianne Larson Hicks for all her help and to my husband Larry, without whom I'd probably still be computerilliterate!

I'd also like to remind all my fellow members that *this is* <u>your</u> magazine! If you went on a great ride, took a riding vacation or have comments, ideas or anything else horse-related you'd like to share - please let me know! You can call the SMCHA voice mail at (415) 568-1045, or email me at trebar@hamilton.com or send mail to the SMCHA address on page 2.

#### Installation Kick-Off Dinner, continued

#### graved on the front.

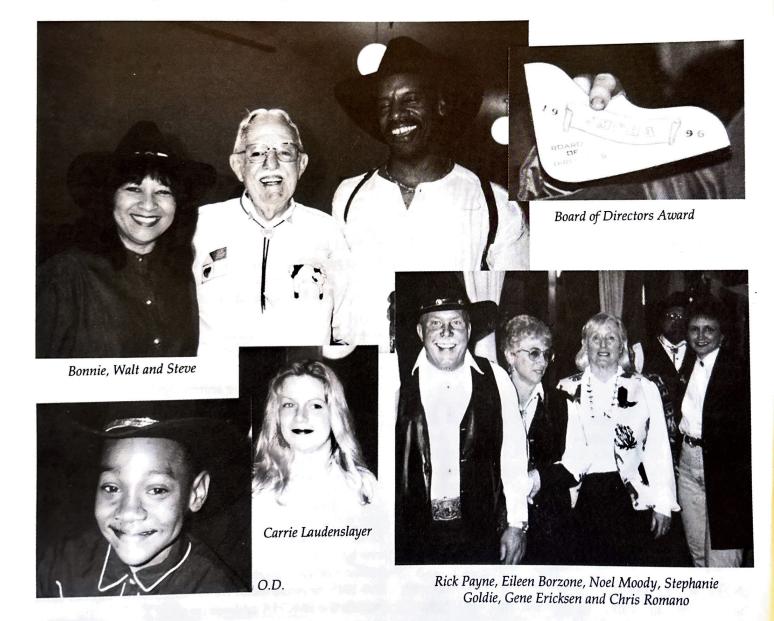
I picked Gene Ericksen for Horseman of the Year because he's also a great help. Whenever I needed something done, Gene was always there to do it ... setting up sound systems or lights for general meetings, helping with cooking or doing the cooking for general meetings. He has many horses and ponies, all of which he loaned to our Juniors for their Jack Brook overnighter. He has two wonderful daughters, Sara and Nicki, and they all ride together. He received a beautiful walnut wall clock with a plaque under the face engraved with date and award.

For our Outstanding Service Award recipient I had a

leather-bound datebook made with her name on it and the award she received and the year. Linda Menon deserves an Outstanding Service Award! She is the hardest working person behind the scenes on our Board. She does the work of four people.

My Exceptional Service Award was sterling silver, hand engraved bolos. These people did so much work for our group, above and beyond the call of duty. They were Virginia Magliano-Darrow, Tanya Rebarchik, Walt Kirk, Dianne Hicks and my wonderful husband and helper, Bruce Doran.

The Horse Community Awards went to the people who



## Installation Kick-Off Dinner, continued

go to all the meetings, be it trail use, stable ordinances, property management, when we the horse people could be involved. They travel to San Francisco, to Half Moon Bay, to all of San Mateo County meetings, all on their time. I also gave this award to a person who opens her property for general meetings, parties and seminars, or anything else, the horse community needs. These people were Chris Romano, Adda Quinn, Janet Estep and wonderful Gladys Martines. These people received sterling silver key fobs with their name and award on it.

Helping Hand Awards were given to the people who help at rides, horse shows, typing, clinics, dinners, etc., etc. These people are Louis Kostura, Kris Murphy, Lorena Heatley, Ann Farris, Barbara Washington, Aleta Reed, Barbara Marcelli, Christine Epstein, Eileen Borzone, Carol Anderson, Nan Daley, Kevin Daley, Sissie Baskin, Bill Baskin, Gary Osieja, Bill Hopper, Rick Payne, Barbara Moyer, Bruce Baker, Karen Rowley, Larry Pelzner, Steve Miles, and Bonnie Miles.

I was also given a wonderful buckle with my name and "President SMCHA 1996". I wear it with pride almost every day.

As our evening of awards came to an end, Rick Payne started up the music and we ended the evening with line dancing.



Board member Lou Kostura receiving his Helping Hand Award from Bruce Doran

Hey, Macarena!

## **ON STRAIGHTNESS...**

#### by Nicole Chain

Did you attend Deb Bennet's presentation last November? If you did, I'm sure you'll agree that it was not only thoroughly entertaining, but enormously enlightening as well. Deb discussed, among other things, the importance of straightness in a horse - that the axial body governs where the feet go, and crooked bodies lead to crooked foot placement and eventually lameness. As a Chiropractor, that made perfect sense to me! What could be more simple to understand? *Fixing* the crookedness becomes the problem (someday I hope to meet Tom Dorrance and maybe he can set *me* straight!). Is it the horse that's crooked, or is it the rider? Or *both* ?

Deb showed us a video demonstrating two very different long distance riders and horses - a very crooked horse, and a straight horse with a very crooked rider. I cringed when I saw both. I see it often when I teach (I give some private equitation instruction as well). One of my students was actually sitting *three inches to the right* of center, which *of course* completely changed the way his horse moved. Yet *he felt* as though he was sitting directly in the center. How can our brains be so off? I'll tell you.

First of all you must realize that asymmetry is the norm. One eye can be higher than the other, one leg shorter—these things are normal. What *cannot* be asymmetrical, however, is the function of the nervous system. This system controls and coordinates *all* functions in our bodies, and if something in the body is causing the nervous system to become asymmetrical, it can show up in a variety of ways. My student's nervous system was *way off*, which interfered with his brain's ability to detect that he was three inches to the right.

Have you noticed that some people hold their head at an angle? Why? *They* think that their head is *straight*. Do you think that could flow over to the way they hold their body? It most certainly could! For some people, the nervous system interference shows up as a variety of health problems, like asthma or headaches, or horrible stiffness and pain when they wake up in the morning. What amazes me is that people think that these things are normal. No—of course it's not normal!

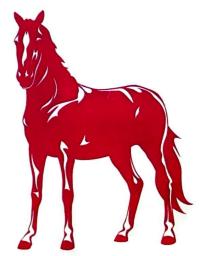
So, what makes us think we're straight when we're not? All of the joints in our bodies have receptors that send a constant barrage of messages to the brain to let it know where our joints are. This helps us move around in the dark, find our noses with our eyes closed, keep our heads upright, etc. In face, these messages are so important that 90% of our brain activity is dedicated to the response and coordination of these messages. The higher up in our bodies, the higher the number of receptors. Because these receptors send a constant stream of messages, anything that *changes the activity* of the receptors has the potential to change the function of the *entire nervous system* (if you don't believe me, look up Pfleuger's Law in your college physics book!).

Now, altered function is measurable with the use of Infrared Thermography. It has been around for about thirty years and is used as a neurodiagnostic tool (in fact, it can detect breast cancer *years* before it shows up on a mammogram!). The nervous system is extremely sensitive, and research has set guidelines for what is considered to be within normal limits and what is abnormal, or pathological. What is great about infrared thermography is that it can be used to detect abnormal *function* before any symptoms have emerged!

The solution? Simple (in theory, anyway!). Remove the joint dysfunction (in essence, speed bumps in the joints) causing the interference to the nervous system so that the body can go back to a state of homeostasis. *Straightness*.

The result? Straight riding, among other thing. That way, if the saddle keeps sliding off to one side, we know it's probably the *horse* and not *us* that is crooked. So, once *we're* straight, how do we get our horses to go straight? You'd better ask Tom - that's his department!

About the Author: Nicole Chain is an Upper Cervical Specialist, with a Chiropractic practice in San Mateo. She has also taught equitation to the San Mateo County Mounted Police, and continues to give private lessons in Woodside and Portola Valley. For inquiries, you can contact her via voice mail: 408-381-2521.



## **MEET THE OLDEST HORSE IN AMERICA**

#### by Suzanne Hively

Article from the *Cleveland Plain Dealer* submitted by Clem Carroll

At the age of 48, McDougal, who lives in West Mansfield, Ohio, is semiretired. Not bad for a human. But McDougal is a horse and he has outlived his peers by almost a quarter of a century.

The typical saddle horse lives to be about 25, with some of them being ridden until that age. And yes, there are a few thirty-somethings around.

McDougal recently was declared to be the oldest living horse in America by the Purina Co. ( . . . ) This was only days after McDougal was inducted into the Ohio Veterinary Hall of Fame in Columbus as a companion animal.

McDougal still works two hours a week with 3-year-old children who are battling attention deficit disorder.

"No one rides him," said McDougal's owner, Dr. Michelle Davis. She quit riding him when he was 40.

"The children sit on his back while they do their brain coordination exercises," she said. "He thinks he is giving them a heck of a ride, but he is really standing still. He loves those kids."

Davis has owned McDougal for 18 years. She had been taking riding lessons on him, then leased him and was showing him when he came up for sale. She paid \$1500 for a 30-year old horse. "Unheard of!" Davis said of her transaction.

Davis said the previous owner told her the horse was younger. "She thought that she had cheated me, but as I look back on it, I got the better end of the deal! The horse is an honest workaholic. He gets upset when I try to retire him."

When people started stopping at her farm to see the old horse, Davis became curious and started tracing his history. She eventually traced McDougal to Esquire Stables, a now defunct stable in Columbus. The owners were breeding for horses with flashy colors to be ridden in parades, she said.

McDougal, a Thoroughbred/American Saddlebred cross, is black with four white socks and a white tail. He stands just under 17 hands high. (...)When the horse was 36, by Davis' calculations, a veterinarian estimated McDougal's age to be between 36 and 39. The veterinarian who has tended to McDougal for the last 2 1/2 years, said "Once they're past 30, it's hard to date them." But after thorough checking of records, Davis, veterinarians and Purina believe they have his current age pinned down at 48. McDougal's health is generally good, (the vet) said, although the horse has some trouble with arthritic knees.

Davis believes the diet she has worked out for the horse is partially responsible for his longevity. Davis became interested in the study of holistic nutrition several years ago when she was ill. She translated what she had learned to the horse's diet. McDougal dines on fresh carrots, apples, pears and herb tea, in addition to a regular menu of hay and grain.

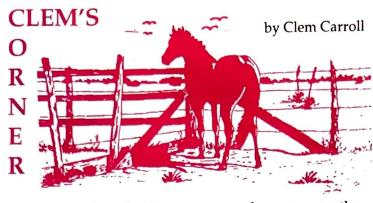
cDougal is seldom unattended for more than a few hours at a time. Davis feeds him when she arises at 4:30 a.m. She checks on him again and gives him a snack at 8 a.m. when she leaves for work. At noon, a sitter arrives to spend the afternoon with McDougal. "One day last week, he lay down on the wrong side of a hill and had to have help getting up," Davis said. Davis feeds McDougal again in the evening and checks on him before she goes to bed. He shares a 10-acre pasture with Davis' four other horses.

"He is protective of me, but also bossy. He rules me with an iron hoof," she said. To show his displeasure for any reason, McDougal works the pasture gate closures open with his lips, lets himself out and goes exploring. If Davis has company, McDougal will stand in front of the house and stare through the picture window until her guests leave. Out of desperation, Davis resorted to keeping the pasture gates tied shut with baling twine.

Davis tried on three occasions to sell the horse. "The first time was after my divorce," she said. "I didn't have enough money to feed me, much less a horse." Each time, McDougal became ill and Davis had to buy him back.

"OK, horse," she told him, " I get the picture. I won't try to sell you again."

She is planning a party to celebrate McDougal's two recent accomplishments.



To "Mac", a longtime horseman, our deepest sympathy on the passing of your wife, to whom you were married for 66 years. Her obituary tells a fascinating story:

#### TOMASINA ARANDA MCNAMER

(June 7, 1908–February 27, 1997)

Tomasina Aranda McNamer was born in Fabens, Texas. She attended schools on El Paso, Texas and Quebec, Canada. Through her Spanish speaking family, years of study in the United States as well as study with the Frenchspeaking nuns in Canada, Tomasina developed a lifelong interest in language. In addition to Spanish, English, and French, she eventually studied Italian, Portuguese, German, and Russian.

Known to friends and family alike as "Mom" McNamer, Tomasina was the wife of Ralph "Mac" McNamer, whom she married in October 1929 — only 3 days after first meeting him. Her husband was in the Army at that time and scheduled to ship out to the Philippines for a 3year tour of duty the day after the wedding. Rather than waiting 3 years to see her husband, Tomasina arranged with the Army to transport herself and the couple's Buick coupe to the Philippines. We can only imagine the groom's surprise when he was called in to his Captain's office to meet his "visitor" only 3 months after his arrival in the Philippines. Tomasina remained with her husband in the Philippines for 3 years, at which time he went on to duty in Shanghai, China, and she returned to San Francisco.

Following her husband's discharge from the Army in 1936, the couple traveled the rodeo circuit across the entire United States, with Tomasina performing a trick-riding act for the entertainment of the audience. Her act included vaulting, the "Russian Drag" and "Roman Riding" astride two horses at the same time. Tomasina participated in the 1939 World's Fair on Treasure Island, both riding in the parade and as a trick rider.

Tomasina and her husband settled back in San Francisco in 1940. Over the years, the couple devoted to caring for their son and 29 foster children. The family moved to Half Moon Bay in 1984.

Tomasina is survived by her husband Mac, and her children Donald Wright McNamer, Gary Hansan, Noah Doan McNamer, Stephanie Hill, Karen Hansan, and Kathleen DeWitt.

The family requests that donations be made in Tomasina McNamer's memory to the Center for Independence of the Disabled in Belmont, California.

Mac also did the rodeo circuit around the world and ended up in Hollywood as a stuntman, having been named World Champion Trick Rider in 1925. He worked the horses in the "Ben Hur" movie. (Clem's note: The chariot race scene in both the movies was the most spectacular event with I've ever seen in my lifetime)

Mac's family raised and sold horses to the Army, and he was "ridin', ropin' and workin' when he was twelve".

e joined the army at age 17, in June 1918. Quoting some of his experiences: "The Army gave me a surprise; I found I didn't know a damn thing about horses. They could ride anything. That rubbed off." He was shipped off to Germany for several years, and then spent the next 20-odd years in the service, training cavalry units throughout the States, going to the Philippines to train polo ponies for an officer's club and to China with the infantry when the Japanese attempted to take Shanghai in 1932.

Over the years working with horses and especially in Hollywood, took its toll: "I've had every bone in my body broken at least twice", and he has a steel rod in his back, a steel plate in his head, a "silver knee" and two missing ribs. He stuck with it "for the work that is your livelihood, and for the camaraderie". Twenty-five years ago he came to the nice and peaceful Coastside. He runs a boarding stable in El Granada and any day one will find him dressed as a cowboy, from his Stetson to

#### Clem's Corner, continued

his Tony Lamas, with additions of fancy bolo ties and belt buckles, and still a tall 6'4" horseman, at age 96

(But he admits he's shrinking) He buys, trains and sells sound riding horses. He defines riding as an art and says an accomplished horseman is one who can tell the health and temperament of a horse at a glance. "There aren't too many artists in the country. Some people only know that a horse has a head and a tail and four legs."

A few of his boarders are

flight attendants, and since their hours and days of work constantly change (not a 9 to 5 job!) there is always something eciting going on.

Shan Egan has boarded her Appaloosa gelding KO-SAN at Mac's place for over seven years. Her life with horses started at a young age - a Shetland Pony, an Arab/Quarter Horse shared by her family in Washington State, then off to college, moving away, finding herself in the work world and meeting fellow workers who owned their own horses. It wasn't long before KO-SAN came into her life. As it happens to most of

> us, vet bills accrue because of injuries, and in the past several years Shan has had her share: leg problems and now corneal ulcers that need medication every day.

KO-SAN is in a large pasture, reserved only for retired horses.

A good-looking horse appeared at the stable, shipped from Utah. They discovered a welltrained mare, knowing everything about ring

work, and when taken out on mountain trails or being passed by noisy trucks, etc., faced it all with studied calmness. Then one day, Mac said he was afraid "ANNIE" was sold. Shan just couldn't make up her mind, still hoping maybe KO-SAN would heal. Within a day or so, ANNIE came back to the stable, the people saying they simply could not get her to lope.

Do you suppose ANNIE did this on purpose because she liked the light hands of Shan's??

# SAN MATEO HORSEMAN MAGAZINE WINS AWARD

The California State Horseman's Association picked The San Mateo Horseman Magazine for its award for Best Club Newsletter 1996! The credit for this goes to Linda Menon, editor for the past 5 years, as well as Ricki McGlashan, our desktop publisher, and, of course, all those who contributed articles, pictures and drawings. Congratulations!

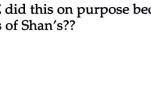
## AND SUMMER: Take the pain out of a bee sting with meat tenderizer!

**IN TIME** 

FOR SPRING

You can take the sting our of almost any bug bite or sting with nothing besides the meat tenderizer in your kitchen cabinet. Most insect venom is protein-based, and meat remderizers break down protein. Mix a thick paste of water and powdered meat tenderizer and apply it directly on the skin. Relief will come within a minute.

(Source: New Choices in Natural Healing, page 203)



## EFFECTS OF ROCKING TRAILS WITH QUARRY STONE AVAILABLE IN SAN MATEO COUNTY

by Adda Quinn

### The Issue

The Issue of the potential effects on soil by rocking trails was raised during development of a county Master Plan by members of the California Native Plant Society (CNPS). Of particular concern were the plants growing in serpentine soil, soil chemistry and importation of exotic seeds. CNPS members suggested using only rock available on site which was serpentine. No single research paper had ever addressed this issue, so the San Mateo Trail Users Group sponsored an inquiry.

Ironically, rocking trails is not the preferred option for most trail users. A well compacted soil tread is much nicer for everyone to use. However, rocking may be needed to construct, maintain or salvage a trail. It is in those cases that it needs to be available as an option.

This paper documents that the quarry rock types available, granite and basalt, are both base saturated (i.e., alkaline) and compatible for use with serpentine soil, and that chemical decomposition occurs over geolocic time.

With several other Master Plans needing revision in the near future, we believe that availability of this information will facilitate the public process for their development not only in San Mateo County, but possibly other places as well.

## **Trail Standards and Maintenance**

Numerous federal agencies, States, counties and private groups have excellent publications documenting the need for providing adequate trail beds, standards for trails and methods by which trails can be built and maintained. Among publications that have been consulted during the course of this research are: Trail Procedure Guide of the USDA Region Five, California Trail Foundation Trail Manual for the Klamath District, Adopt-a Trail Handbook of the New Mexico DNR, Recreation Trail Maintenace by Washington State DNR, the 1993 Mid Peninsula Open Space District Guidelines and Mitigation Measures, the Bay Area Trails Center 1993 Crew Leaders Manual, Trail and Path Construction and Maintenance Standards by the Town of Portola Valley, and, the most recently published multiple award winning 1995 Santa Clara County Countywide Trails Master Plan.

Rocking trails to provide adequate tread to support mixed light use (this includes equestrian), where appropriate, is a long accepted practice in trail building and maintenance.

## Serpentinite Soils

Serpentine is the California State Rock. Serpentinite soils are noted for their remarkable characteristic of supporting endemic species highly restricted in range.<sup>i</sup> Most of these soils are notably alkaline (base saturated), and the presence of magnesium inhibits plants from utilizing any calcium that may be present<sup>ii</sup>. These constituents cause the soils to be difficult to cultivate as shown by their characteristic low-fertility, gravely nature and general absence of topsoil layers. They provide little or no area for root system development. These areas of serpentine soil have low fertility, shallow soil depth, poor water retention, and slow subsoil permeability. They have a slow infiltration rate when wet which can increase potential runoff and erosion. Erosion hazard is generally moderate to high depending on degree of slope and absence of vegetation.<sup>iii</sup>

Most quarries mining serpentinite stone were driven out of business as a result of the asbestos health scare of the 1980's, so this quarry stone is not readily available commercially. Serpentine rock is available to be mined from the Kirby Canyon Waste Management Landfill off of Highway 101 near Morgan Hill.<sup>iv</sup> In checking further into the issue, the County planning staff found tha because of the levels of chrysotile asbestos contained in serpentine, quarrying it exceeds health standards for exposure, and use of it on trails is not desirable.

## Possible Changes in Soil Chemistry

Over two dozen scientists and experts on rocking were consulted. Literature searches were conducted from several sources and papers obtained. A Professional Certified Soil Scientist reviewed the documentand prepared a technical summary for a lay audience which follows below. The scientific evidence which exists should allay concerns about rocking as a trail maintenance option because chemical decomposition of both basalt and granite quarry stone occur only in geologic time scales. Since both basalt and granite are significantly harder rocks than the parent, receiving serpentine soil present in sensitive grasslands, and since the basalt very closely mimics the chemistry of serpentine itself, changes in the chemistry of serpentine soil due to the decomposition of either quarry stone are unlikely.

"Weathering is defined as the mechanical disintegration and chemical break down of rock materials that occurs when they are exposed to freeze-thaw cycles, pressure changes, exposue to water, chemical reactions, and other influences at the earth's surface.<sup>1</sup>

Both result in microscopic cracks along grain boundaries and within grains and occur at differing rates. Rates of rock weathering can be estimated by a variety of direct and indirect techniques. Direct techniques include laboratory studies. These tend not to be as accurate as other methods for predicting true environmental behavior, but are faster and less costly<sup>2</sup>

The relationship between weathering, rind thickness and age also provides a direct measure of rock weathering rates. Indirect methods require solution of a mass balance equation to account for gains and losses of nutrients in a watershed, and are useful for all elements except phosphorus. They are usually long term field studies and are very costly. References reviewed involved a variety of methods.

Elemental release from rock weathering is highly variable and strongly dependent on the primary minerology of the rock. The larger the particle grain size, the more difficult the rock will be to weather. Small pieces of rock or small size minerals weather more rapidly than large pieces because of their greater surface area.<sup>3</sup> In addition, degree of fracturing and chemical zonation of mineral grains are important controls.<sup>4</sup>

Because granite, basalt and serpentine are all basesaturated rocks (alkaline in nature with pH of about 8), their chemical composition is similar. Weathering processes should produce soils with similar elemental constituents. Both basalt and granite contain larger particle sized elements than does serpentine which will cause them to weather slower in comparison to the serpentine<sup>5</sup>. Half inch diameter basalt or granite are commercially available from quarries in San Mateo County nearest the Edgewood Park and Natural Preserve which has the serpentinite grasslands of concern. Of these two quarry stones, the basalt mimics the chemistry of the serpentine soil closest, is the hardest of the three rocks being compared (due to higher iron content) and has the largest grain fractions. The weathering rate of granite has been calculated at 10<sup>-16</sup> per meter squared per meter per second. This is extremely slow. Studies in California have demonstrated mineral grain depletion and destruction of pyroxene and hornblende take more than a hundred thousand (10<sup>5</sup>) years. Depletion of

these minerals takes several hundred thousand years in the same soils <sup>6</sup>

To construct a simple analogy, if one took either of these quarry stones and placed them in a glass of water to stimulate decomposition, you might begin to see mechanical changes in 300-400 years. Chemical changes would take a thousand years. The geochemical and geological effect of use of either stone to rock trails in a serpentine soil where grasslands predominate will be non-detectable and probably not measurable except in geologic time scales.

In a practical sense, the use of these quarry stones in the trail bed of a park which will receive "light" use (defined as pedestrian, equestrian and bicycle) the effects of walking or riding on such rocks may create some minor forms of mechanical weathering. Over time, the most likely outcome is compaction of the rocks into the trail bed. This could have a positive effect of hardening the trail bed.

The climatic zone in which this property is located is Mediterranean, receiving 10-30 inches of rainfall annually, predominantly during winter months. It lies in the rain shadow of the Santa Cruz Mountains. These factors may further limit potential weathering of quarry stone used.

It is understood that trails account for 7.5 miles of track approximately three feet wide and the majority of trails are not to be rocked. Less than 0.3 % of the area is in trails in the grasslands of concern. The straying of an occasional stone from a trail bed into the grassland could conceivably alter the surface tension of clays and increase water infiltration potential. However, the effect would likely be much less than that caused by deer hooves during the course of their grazing.

Because transportation costs are often determined by weight, using close sources will be most cost-effective when use is indicated. Langley Quarry which supplies the basalt is located in Woodside; Pilarcitos Quarry which supplies the granite is in Half Moon Bay, both reasonably approximate to the site."

## Potential for Introduction of Exotic Seeds with Importation of Rock

A second question raised by formulators of the Draft concerned the potential for introduction of exotic seeds with importation of non-native stones. While this subject has not received the rigorous attention of the scientific community given to the previous topic, the *Continued on page 12* 

### Effects of Rocking Trails with Quarry Stone, continued

following information is offered:

Quarry stone mined in San Mateo County comes from virgin rock seams, making it extremely unlikely that seeds are embedded in the ore veins which have undergone stresses of heat, pressure and burial for vast eras of time.<sup>v</sup>

The prevailing brisk Westerly winds, bird fly-overs, and water-borne vectors are likely to be the most prevalent source of exotic seeds entering Edgewood. There has been some speculation of seeds coming in on the soles of human shoes or through the digestive tracts and fur of large animals. Compared to airborne and water pathways, animal/human sources are negligible. Broom, teasel and star (and other) thistle are the most invasive exotic species of concern. None of these exotics constitute a significant dietary fraction of the large grazing animals which frequent Edgewood.

Given these facts, it would appear that the need to provide mitigative measured during the importation of trail maintenance materials is not warranted. However, if concerns persist, consideration should be given to the following options or combinations thereof:

Lining trails with landscape fabric prior to rocking

#### · Off-site pretreatment of rocks with herbicides

However, since no data exists supporting the need for these additional measures (and costs) associated with mitigation, the County should undertake a risk assessment to see if additional costs and activities are indeed warranted.

#### Conclusion

Rocking trails should be accepted as a standard trail maintenance procedure for use, where appropriate, since:

Erosion control in serpentinite grasslands is a concern. Well maintained trails are essential to preventing erosion. Trail maintenance activities, including rocking, are likely to have little or no effect on endangered species.<sup>vi</sup>

Rocking with either basalt or granite does not change the chemistry of surrounding serpeninite soils.

Usually only portions of trails require rocking. The volume of rocks to be imported for trail maintenance at any one time is likely to be negligible in the total context park acreage.

#### **Rocking Trails Notes**

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- <sup>2</sup> Suarez, p.2
- <sup>3</sup> Clayton, Nutrient Supply, p.75
- <sup>4</sup> Colman, Chemical Weathering p.3-4, 37
- 5 Cleaves, p.437
- 6 Clayton, Nutrient Supply, p.80,91 and Colman, Chemical Weathering p.1

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## TRAIL RIDE AND BBQ TO BENEFIT TRAILS AT PT. REYES SEASHORE

The Friends of Orville Peterson Trail Fund is hosting a ride and barbecue on Saturday, May 10, 1997 to raise funds for the restoration of the Crystal Lake Trail and upkeep of the Alamea Trail and the Old Out Road.

The ride starts at 9:30 a.m. sharp from the Five Brooks Trail Head. Riders will journey out to the coast on the Upper Alamea Trail and the Old Out Road to Wildcat Beach, and return via the Crystal Lake Trail.

Meet and converse with Point Reyes National Seashore Superintendent, Don Neubacher, who will be along for the ride and barbecue.

The barbecue, hosted by the Mounted Sheriff's Posse of

# WHO WAS ORVILLE PETERSON?

Orville Peterson, well known and greatly respected among Marin County equestrians, was enormously dedicated to the maintenance of the trail system in Point Reyes National Seashore. His saddle bags always equipped with pruning and sawing tools, Orville routinely clipped away fallen trees and branches and clipped back vine and brush overgrowth along trails. A friendly and vivacious soul, full of amusing stories from a lifetime of living to the fullest, Orville was a delight to ride with.

Born in 1918 in the state of Washington, Orville was raised on a dairy farm. With his wife, Zola, he relocated to Mill Valley in 1939, where he ran the family mechanic business. Orville and Zola raised their family there—daughter Jill and son Erik. They were both avid horse riders and active in the equestrian community. They were involved with horses and children in the Valley Riders 4-H Club, and were life members of the Tamalpais Trail Riders and the Novato Horsemen.

Orville was also a life member and past Captain of the Mounted Sheriff's Posse of Marin County. He served the County for many years—always with the same dedication he gave his family and the trails, and always with a good horse. Marin County, will be held at the Stewart Horse Camp at 2:30 p.m. Dr. Jimmy Williams and Mrs Fran Clementino will be your chefs, offering a choice of steak or vegetarian meals.

The cost of the barbecue is \$15.00 per person. Reservations must be paid in full by May 4,1997. Net proceeds from the barbecue will go toward repair and maintenance of trails in the Point Reyes National Seashore.

For reservations contact: Jill Peterson (415) 897-2404.

Trail maintenance benefits all users! Non-riders are welcome and encouraged to enjoy a hike or bike-ride in the park and attend the barbecue.

For some background information on this ride—please read on . . .

## The Friends of Orville Peterson Trail Fund

was started in 1988 by the Mounted Sheriff's Posse of Marin County to honor the memory of Orville Peterson and provide money for continued maintenance of the trails in Point Reyes National Seashore.

The fund has sponsored work parties and provided money for trail re-openings and maintenance. A portion on the May 10th ride will be on the Upper Alamea trail Trail and the Old Out Road, both trails previously reopened by the Friends of Peterson Trail Fund.

Since the Mt Vision Fire in October 1995, the Seashore's resources have been focused on repairing damage to the burn zone. There are many trails in the southern area of the park which need repair and maintenance.

Monetary donations to this fund and the Point Reyes National Seashore Association are needed to endow the continuous process of trail repair and maintenance.

Editor's note: I came across the announcement for this ride through the Backcountry Horsemen's Assn. Even though this is not a San Mateo County Event, I thought it would be of interest to many members! Point Reyes is a beautiful area and this should be a fun ride for a worthy cause. Y'all come!



tion of the local division of the

13

Orville Peterson passed away in 1988.

# THE TOOTHFAIRY COMES TO TOWN

#### by Dianne Larson Hicks

Randy Riedinger, Dental Technician, and Kristin Dietrich, DVM, were on hand for our January Educational Seminar at Gladys Martines' Charter Oaks Farm. Armed with samples of teeth extracted from horses, excellent photographs, factual information and two horse skulls provided by Kristy Connally and me, the evening took us deep into the mouth of the horse. For those who attended this was an unbelievable opportunity to learn a great deal about our horses' dental needs.

It would seem, generally speaking, the majority of people are completely unaware of today's horses' need for dental care. Dispelled was the notion that you only call in your vet when your horse just doesn't seem to be holding his weight like he used to. Some of the things you might have taken notice of are the chewed wads of feed lying near the feed bin. This might have alerted you to a problem. You need to know more.

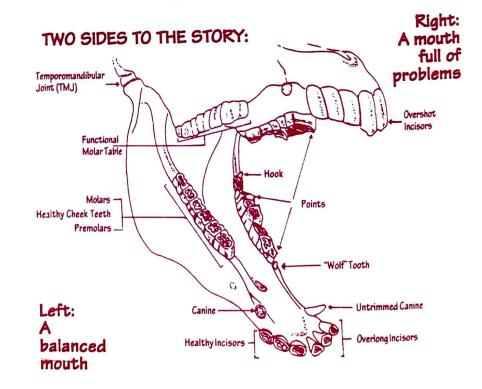
The truth of the matter is the necessity to keep an eye on your horse's teeth from two years on and preferably on a six-month to annual basis. Some would say sooner. Your youngster is replacing teeth in his/her second, third and fourth year like clockwork. Problems can occur when the **"cap"** doesn't fall off as it should. It's actually desirable to have your vet and/or dental

technician keeping an eye on this and removing caps that are not coming off as necessary. Wolf teeth located in front of the first molars show up anywhere from age two on. These present a good deal of pain with the addition of a bit pressing against them. They can be between the canine and the first molars both above and below. The earlier you find them the easier they can be to remove. Clipping off and filing of the canines in male horses is another step in the "floating" process. These usually erupt during the fourth year. One of the things you need to take note of is that your vet or dental technician is equipped with an adjustable full mouth speculum (see photo). "It is literally impossible to examine the mouth of a horse thoroughly without one. If someone examines your horse's mouth and



Kristin Dietrich, DVM and Randy Reidinger, dental technician

tells you everything is fine without first opening the mouth with this instrument, and making a thorough palpation of the mouth (feeling with hands), beware." Without this instrument, odds are the back three molars (of six) on either side, top and bottom, are getting missed. The drawing indicates the possible locations of "**points**" on molars. This occurs where the lateral grinding becomes impeded if the range of motion gets blocked by tooth enamel not worn off in the chewing



process. They are found on the outside edges of the upper molars and inside edges of the lower molars. **"Hooks"** occur at the back of the last molar and in front of the first molar. All of these things need to be identified and treated.

Keep in mind this article is being written by me and not a master dentist! I'm trying to appeal to the layperson. At any rate, because we feed our horses cut feed and they are rarely subsisting on pure pasture, they are not benefitting from the silica (glass) that lies within the composition of every blade of grass. Their teeth are not wearing the way they did in nature or prior to domestication. It would be interesting to look at mustang skulls.

This next comment comes from reading and did not come up in our seminar, but I thought I'd share it with you: Should you find the person floating your horse's

teeth tying your horse's tongue up the side of his head to the halterinvite him/her to leave your premises. The horse's tongue can take some punishment by bringing



Randy Riedinger

it through the space between the molars and incisors and then downward—but the hyoid bone at the base of the tongue can dislocate permanently!

Proper dental care relieves your horse of multitudes of aberrations associated with the pain incurred by points, hooks, wolf teeth, sharp canines, abscesses and more. What is amazing are the many faces of dentalrelated responses: back pain, hock pain, rearing problems, head tossing, tail swishing, bad attitudes,



Dianne Hicks testing the before and after "feel" with full mouth speculum in place

**spinal misalignments, and more.** The horses can't tell you . . . and sometimes you are not the least bit aware that they are trying to—in their own hard-to-read ways. Tune in to your horse. Our horses are no longer beasts of



An important view of the full mouth speculum and the finesse required to balance the floating file

burden. They are our best friends (hopefully).

A HUGE THANK YOU to Randy and Kristin for sharing their insight and creating an important awareness. This was truly an "educating" seminar. All present were glad they attended and commented on how valuable they found this to be. It is something worth sharing.

For additional information you will find the subject to be

# Horse Poor

(author unknown; submitted by John Telucci)

I bought me a horse and I bought me some tack

I built me a place to keep it out back I bought some hay and I bought some grain I bought a big tarp to keep off the rain.

Then I had it. I had all that I need. I had me a horse and I had some feed. Except, I needed a truck, and a horse trailer too

And a hat and some boots like a real buckaroo.

I bought me a scabbard to carry my gun I could take my horse hunting but I only had one.

Now it's not very safe to go hunting alone But only one horse is all that I owned.

So I started looking for another one A gentle ol' horse for my wife or my son I bought another saddle and I bought some more tack

I built another stall on the shed out in back.

Now the vet bills are more the farrier too It was twenty-five, now it's fifty for shoes The land that I owned ain't as much as I need So I rented some pasture to help with the feed.

I got another job to pay for it all Working part-time at a store in the mall. With the money I make I can pay for it fine Now, I'd like to go riding but I don't have the time.

#### Tooth Fairy, continued

a "hot topic" in most of the equine magazines published within this last year.

For those of you who wish to know more, you may also call the World Wide Equine School of Dentistry, a registered private school of hipsodont dentition, anatomy and nutrition in Glenns Ferry, Idaho at (208)366-2550. The fax number is (208)366-2870. The address is P.O. Box 1040, 415 E. Fourth St., Glenns Ferry, Idaho 83623.



## Win Buckles at SMCHA Shows

Never won a buckle? Come to the August 17,1997 SMCHA Open Western Horse Show where there will be five "Never Won a Buckle" classes, one for each division - Trail, Reining, Pleasure, Equitation and Halter. Pat Hubbert will judge the Reining, Equitation and Pleasure classes, while B.J. LeMaster will judge the Trail, Halter and Showmanship classes. It's a Nor-Cal Show and we will have a great Pancake Breakfast and wonderful vendor booths in conjunction with the show.

The SMCHA Schooling Show season will be great, too. Western shows are scheduled for June 22 and September 28 at Webb Ranch. There will be lots of beginner classes, walk-jog classes, green and limit classes as well as halter, equitation, pleasure and trail classes.

The SMCHA English Show at Webb Ranch will be held July 26. The flat classes will be in the morning an d the jump classes will start at noon. There will be a hunter division and a jumper division and four High Points will be awarded for the day. The show features beginner, green and limit classes and has low jumps.

If you would like to enter, call: Noel Moody (415) 322-6545 or Eileen Borzone (415) 366-1552.

Or just call and say you want to help!

MUUUUUUU

Trading Post

WESTERN SADDLE FOR SALE - Afork style, 15 " seat, straight 3 1/2" cantle. Barely used, excellent condition. Asking \$675 / B.O. Call Tanya Rebarchik at (415) 367-9773. MANDOLO MANA

HORSE FOR SALE - 8 year-old bay Thoroughbred Gelding, 15.2 hh. Excellent trail horse, rides English or Western, great with kids and beginner riders! \$2,500. (415) 596-8236.

# MULTI- CLUB MEETING IN MARCH WITH CSHA REGION 6 PRESIDENT AT THE MOUNTED PATROL GROUNDS

#### by Bob Stucky

Marcia Patrick, President of California State Horsemen's Association, Region 6 came by on March 5th at the Mounted Patrol Grounds to fill us in on the goings on at the State and Regional levels. It was a very eye opening experience to see how many efforts are underway that could make the enjoyment of horses and equestrian activities far more difficult for us all.

Make no mistake about it, the only conclusion one can reach is that the various horse groups have to work together to keep what we have and remain forever vigilant against groups which are attempting to limit access to horses on government lands.

Janet Estep and Adda Quinn made a forceful request for support on Edgewood Park. It seems that the horse community is losing some ground in the battle to keep open horse access to the park. Horse access to one trail has been limited so far, and others could follow. Evidently, some horse people have strayed off the trails in some areas. We have to police ourselves on this one. Yahoos who don't follow the rules could well end up costing all of us access to a fine park. We need to show up at the County Meetings and make sure our voices are heard!

Representatives from San Francisco were on hand to discuss the state of the Cow Palace. It seems that there is more than just a small chance that the Grand National and Junior Grand National Rodeos may go away in the near future. While the importance of a Rodeo show is

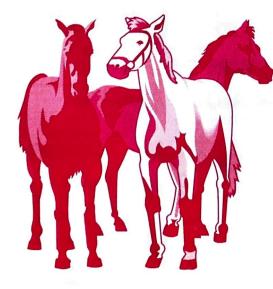
debatable, the importance of the stock and horse shows is not. A significant portion of California's economy is supported by agriculture, and shows like these are the showcases for the public to learn about the industry.

The West Coast Horse Association talked about horse access to beaches. A group in Half Moon Bay is attempting a legal maneuver to eliminate horse access to some of the beaches. By the letter of the law, it would seem that their effort is doomed; however, our knowledge of the legal system warns us to keep in mind that court decisions are not always rational and rightminded. The bottom line is that there are a number of signature gathering efforts underway, and members from all area horse groups are encouraged to get involved!

A new event, Equifest will be held May 17 and 18 at the Santa Clara County Fairgrounds. There's going to be demonstrations, service and equipment vendors, just about anything to do with horses. This is one event you won't want to miss. Similar events are being held in various parts of the country and are wildly successful. CSHA is hoping to develop Equifest into a major annual event to help support horse activities in the entire Bay Area.

This meeting couldn't have been held if it were not for the generous donation of the Mounted Patrol's wonderful facilities. We want to express our thanks to Capt. Michael Carr of the Patrol and the Patrol's Board of Directors for their efforts on our behalf. We also want to thank Lex Hobson for taking time out of his day to

> serve drinks for the meeting. And of course, thanks to everyone who chipped in to make it happen!



# 1997 Calendar

(updated 3/10/97)

	79
	(u
April	
April	E Locklonel Sominar
2	Educational Seminar
C	<b>(Raphaela Pope)</b> LV Ride
6 9	Board Meeting
9 12	April on the Mountain,
12	Heritage Trail Ride
13	Spring Ride
26	State Trail Day
27	SFHA Ride
May	D. D. Dende
3	May Day Parade
3-4	LV Ride
14	Board Meeting
17-18	Equifest Western Clinic
29	Western Chine
June	
1	LV Ride
6	LV Ride Sign-Up Night
5,12,19,26	Western Clinic
7	Emergency Prep for Horses Semi
11	Board Meeting
14	<b>Romp &amp; Stomp</b> LV 4-Day Ride
19-22	Western Schooling Show
22 28	Restaurant Ride
July	
4	Parade
6	LV Ride
9	Board Meeting Western Clinic
10	Western Clinic Show & Dinner
17 21-26	Juniors at Jack Brook w/ CSHA
21-26 26	English Schooling Show
20	

2-3	LV Ride
13	Board Meeting
17	Nor-Cal Show
18-24	Jack Brook Horse Camp
30-31	LV - Jack Brook

# September

1	LV - Jack Brook
1	- IMastin

- 10 Board Meeting
- 13 Trail Trials, CTETA
- 17 General Outdoor Meeting/BBQ
- 28 Western Schooling Show

## October

	October	
	5 8 18	LV Ride Board Meeting Presidents' Ride
	22	Educational Seminar
	24	Grand Nationals Opening Night
ninar	25	Pumpkin Carving/Halloween
		Spooktacular

## November

- 2 LV Progressive Ride
- 12 Board Meeting
- 19 General Meeting/Elections

## December

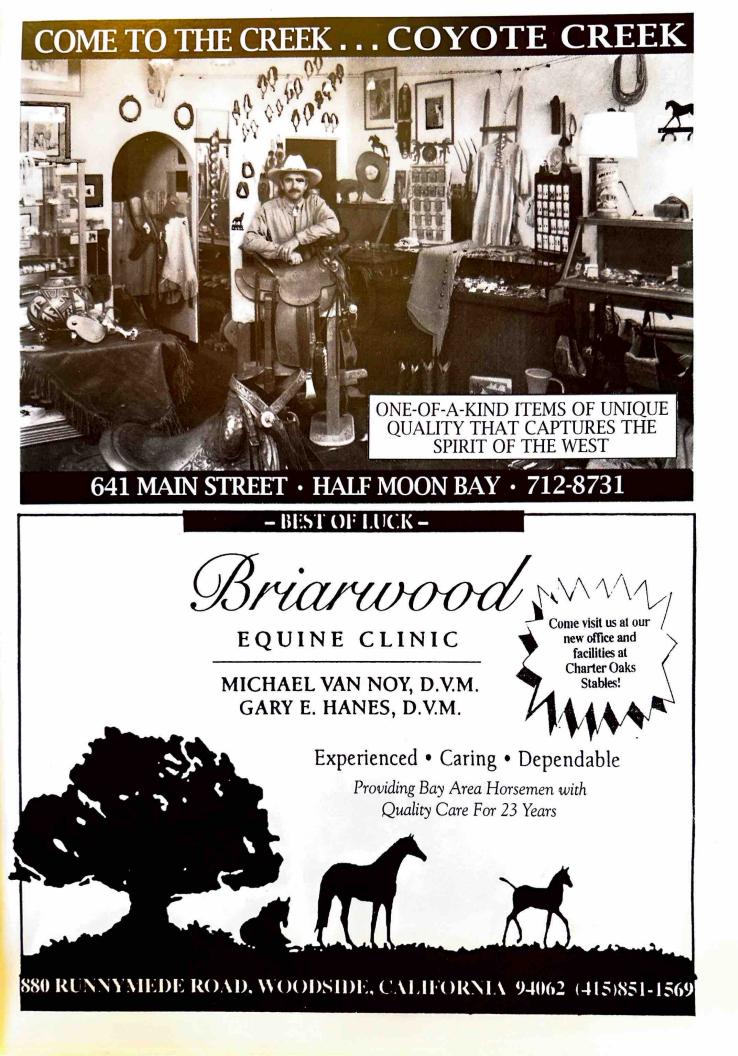
- 5 Board Dinner/Meeting
- 14 Christmas Party

# January 1998

- 14 Board Meeting
- 24 Kick-Off Dinner/Dance

**SMCHA events in BOLD** *LV* = *Los Viajeros* 





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