



AUDUBON CANYON RANCH

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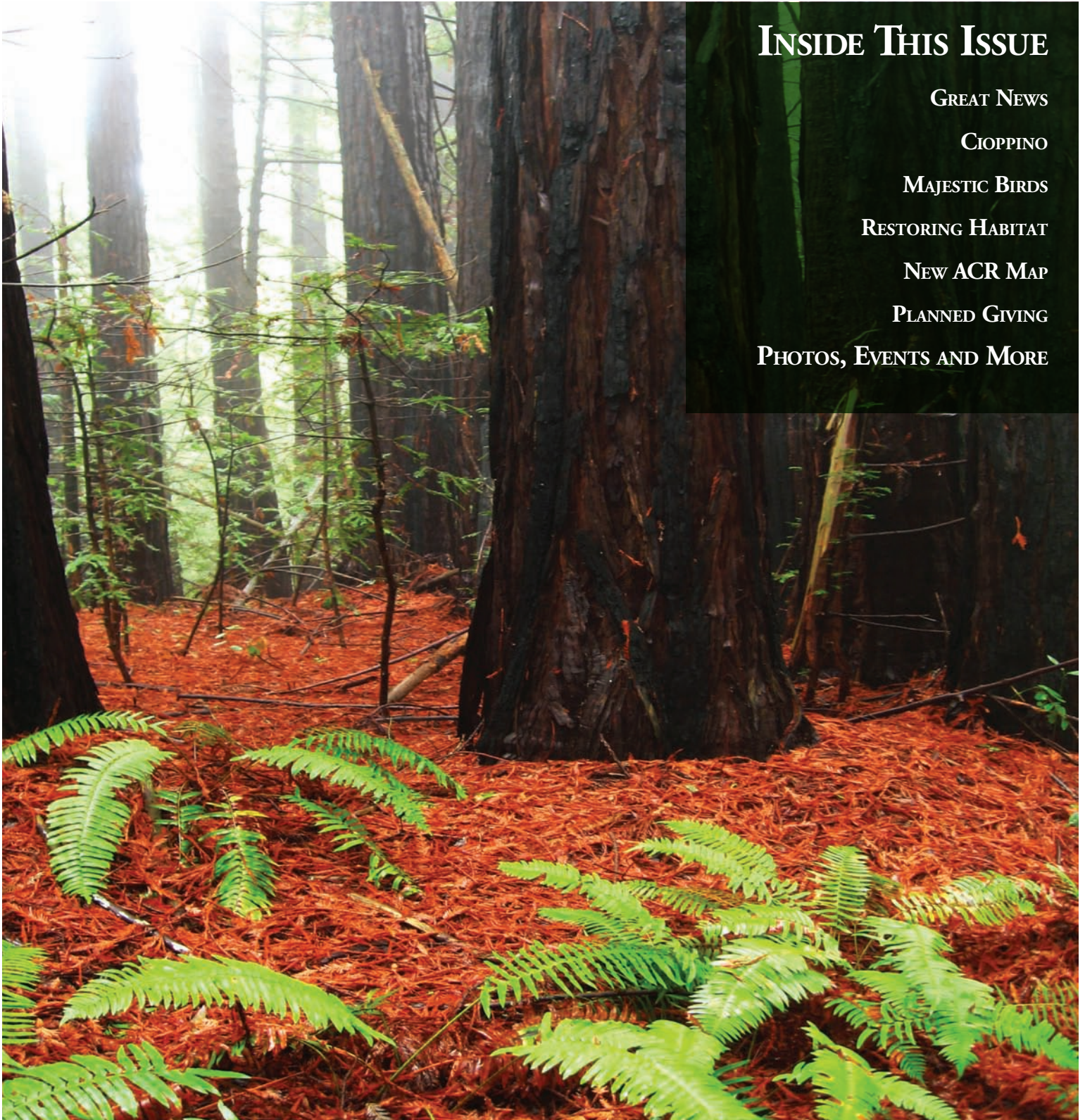
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GREAT, GREAT NEWS — THIS TIME IN “TWOS!”

by Scott Feierabend

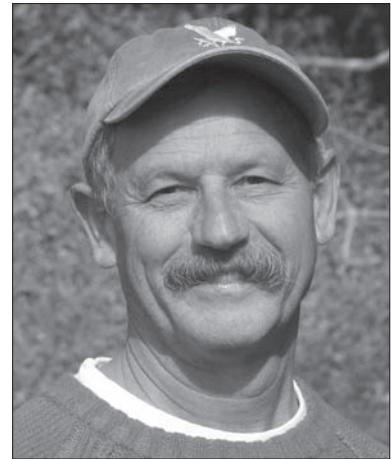
My mother used to tell me that “all good things come in threes.” And, while she was right *most* of the time, I’m here to tell you that good things also come in twos... and here’s why.

First, Audubon Canyon Ranch has just launched a new membership program — something we’ve never done in our 50-year history. This is a new and exciting way to invest in ACR and I invite you to become a charter member of the organization. In addition to the many benefits you receive, by becoming a member of ACR you will join a community of conservationists who are committed to protecting in perpetuity wild lands and wildlife in Marin and Sonoma counties. If you haven’t done so already, please take a moment to complete the enclosed membership enrollment form and return it with your contribution. With your support, ACR can continue delivering the Bay Area’s finest preservation, education and conservation science programs.

Second, Audubon Canyon Ranch has embarked on a series of new, fun, informative and exciting seminars open

to the public and that we have fondly dubbed our Science Salons. Our first salon, held this past June at ACR’s Bouverie Preserve and entitled Buzz About Bees and Other Pollinators, brought together three of the Bay Area’s foremost scientific authorities on pollinators. They talked about the plight of native bees and ways that each of us can make the world a bit more bee friendly. Followed by a lively question-and-answer session and a wine and cheese reception held in the courtyard, the hundred-plus participants had the opportunity to rub shoulders with our local scientists, as well as to make new friends. So successful was the event that ACR has scheduled a second Science Salon for Saturday, October 9th, which will explore the intersection of science and music.

I am always eager to hear from our supporters and welcome your comments, suggestions and feedback — things you like about ACR, ways in which we can improve and strengthen our organization, or simply what’s on your mind.



Scott
Feierabend

You can reach me at my office (415.868.9244) or email me at scott@egret.org.

Thank you for your support, and enjoy the fall.

Scott Feierabend
ACR Executive Director

Audubon Canyon Ranch

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PARSON'S POND CIOPPINO

by Gwen Heistand

Where, outside the world of science fiction, can you find creatures that are able to propel themselves by shooting water out of their butt, drink their dinner by liquefying the insides of their prey, breathe using an air bubble attached to their abdomen, capture prey with a fearsome lower jaw that folds up under their body, walk on water, start their life in one medium and finish it up in another and make their larval host so thirsty it crawls to the edge of a body of water so the adult inside can burst out and swim away? Answer: the ponds and streams of Audubon Canyon Ranch.

As seasons shift here at the Martin Griffin Preserve, bodies of water slowly dehydrate, concentrating life into what I refer to as Parson's Pond cioppino. Dragonfly and damselfly naiads, whirligig beetles, tadpoles, water striders, phantom midge larvae, backswimmers, predaceous diving beetles, seed shrimp, water boatmen, scuds, mites, copepods, daphnia, giant toe-biters, larval newts, bloodworms, mayfly naiads and planaria can all be found in a scoop of pond water. And if you add a microscope — rotifers, ciliates, paramecium, amoebas and other tiny critters swim into view. Just their names conjure up a different world full of mystery.

One of the great things about taking

kids of all ages to the ponds is the magic that happens when you step into this fantastical other world, into another skin and alternate reality. We know that the way these wee beasts procure food, reproduce and generally go about their lives is different than us. What we don't often talk about is the fact that even the physics governing these small critters is different than what we experience. Imagine if you had to move through a medium that was thicker than molasses, had to get your oxygen from water, or were able to use surface tension to send messages to your mate.

Swimming through Molasses

Put yourself in the exoskeleton of a copepod cruising around in Parson's Pond in the Martin Griffin Preserve. You will need to think about the relationship of how big and how fast you are (our inertial forces) to the stickiness (viscosity) of the fluid around you. Humans are large, relatively speaking and air is not very sticky. You move through air and don't much think about it unless you are a competitive runner or luge racer or speed skater. Now put yourself in water — think of the difference between regular aerobics and water aerobics. Think about what you need to do to breast stroke across a pond.



PHOTO BY ALEX WILD
www.alexandwild.com

Water Strider

When you do the breast stroke, you employ a power stroke and then you glide. Now imagine the water is very, very thick molasses. You wouldn't be able to glide. You would need to need to power-stroke... power-stroke... power-stroke to get anywhere. Furthermore, you would move slightly backward on your return-stroke. So for every forward gain — there would be a little loss.

Copepods use their large antennae much the same way we use our arms to breast stroke only they're so small that the relative thickness of the water prevents them from gliding. Their characteristic jerk... jerk... jerk motion is created by a power-stroke with no glide.

➤ Please turn to **Parson's Pond**, page 4

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PARSON'S POND from page 3

Organisms smaller than copepods, like paramecium, rotifers and bacteria of high school biology classes, deal with a world where the “stickiness” takes over. It is a world in which the physics that govern motion is significantly different than the world in which we’ve developed our intuition and a day at the ponds can bend our minds a little.

Life at the Surface

Contemplate surface tension. When you think of all the creatures that live in ponds, why do so few species hang out at the surface? If too big, surface tension can’t hold them up; too small and they get trapped. To walk on water, downward forces need to balance upward forces. Something that weighs 130 pounds, like a human, would need feet with about five miles of edge or need to be able to run 70 miles an hour slapping the surface like basilisk lizards in order to pull it off. Water striders and whirligig beetles are masters of the air-water interface and have come up with some cool ways to take advantage of tension.

*“If there is magic on this planet,
it is contained in water.”*

*- Loren Eiseley,
The Immense Journey*

Spend a lazy summer afternoon watching water striders skittering across the quiet reaches of a stream or pond and you can’t help but marvel at the saucer-shaped shadows cast on the bottom by their feet dimpling the surface. Much of a water strider’s body, long skinny legs and feet are covered with minute hairs coated with hydrophobic (water-hating) oils. Unlike other insects, claws on their feet are set back from the tips so they

won’t break the surface film. Ripples in surface tension are used the way a spider uses a web — to extend their sensory world — for prey location, territorial communication and mating signals. Water striders pump their legs up and down at different speeds to create different wave patterns that mean different things. (One experimenter, who wanted to make sure visual cues weren’t playing a role, went so far as to make tiny water strider masks by painting black silicone rubber on the head of a dead male and peeling it off. These masks were slipped over the heads of living males to study how they reacted to different vibrational cues.) Go visit some water striders with a long, thin, smooth stick (like a bamboo skewer). Pierce the surface film with the point and make ripples by rubbing the stick between your hands. Often water striders will skittle over to check you out.

Whirligig beetles (those groups of frenetic black beetles swimming in circles) employ different techniques for living at the surface. Imagine donning a body stocking that strongly repelled water on your back-side and strongly attracted water on your front-side. Now lie face-down on the water and split each of your eyes in two so an eye points up into the air and an eye points down into the water on each side of your head. You have entered the world of whirligig beetles. Their upper bodies are hydrophobic and their lower bodies are hydrophilic. And, yes, each eye has split into two halves, making it appear as if they have four eyes — two pointing up and two pointing down.

As if these adaptations weren’t enough to secure whirligigs’ place in the air-water interface hall of fame,

frenetically swimming in circles actually creates rings that propagate out in all directions, allowing the beetles to employ a kind of vibrational sounding — like echolocation with motion waves instead of sound waves. Short, stout antennae kept in contact with the water’s surface read echoes that bounce back when waves made by their swimming strike an object. In this way, whirligig beetles are able to discern prey, predators and potential mates.



PHOTO BY ALEX WILD
www.alexanderwild.com

Whirligig Beetles

The tendency of whirligigs to aggregate is thought to be a survival adaptation for predator avoidance. Position in the aggregation is determined by hunger, water temperature, sex and age. The next time you watch an apparently chaotic mass of hyperactive whirligig beetles, rest assured the hungry males are on the outside, the circular swimming patterns are producing waves used to locate predators and prey and the beetles are perfectly adapted for life at the surface.

THANKS!

Thanks to the California Alpine Club Foundation, the boardwalk that traverses the ponds at the Martin Griffin Preserve has recently been restored, enabling students, docents, scientists and educators to safely study the creatures that thrive therein.

How Do Aquatic Critters Breathe?

Whirligig beetles and water striders living at the air-water interface are able to obtain oxygen from the air. Copepods are so small that dissolved oxygen in the water can diffuse across their exoskeletons. What about creatures like predaceous diving beetles and dragonfly naiads?

Many denizens of aquatic habitats use gills — mayfly naiads, larval newts, fish and a host of others. (A gill is a structure with a comparatively large surface that can extract dissolved oxygen from the water.) Remember in the first paragraph when I mentioned a creature that can propel itself by shooting water out of its butt? This amazing escape response of a dragonfly naiad is enabled by its adaptation for breathing. Dragonfly larvae have plate-like gills hanging like shingles inside their rectums. Muscles in the rectum expand to suck water in over the gills and then contract to expel it. In a pinch, this water can be forcibly ejected, propelling the naiad forward up to two feet in one blast. Try to find a kid who isn't at least a little impressed witnessing a dragonfly naiad zoom across a plastic tub with water shooting out of its hind end.

Predaceous diving beetles need

Happy Anniversary, Martin Griffin Preserve Docents!

In honor of the 40th anniversary of the Martin Griffin Preserve's Docent Program, the ACR Board of Directors recognizes, honors and commends docents past and present on their stellar work, their passion, inspiration and contribution to environmental education as they have placed banana slugs in the hands and wonder in the hearts of Bay Area children for the past 40 years.

We thank you.

atmospheric air to breathe, and yet they can remain submerged for up to 36 hours! Insects respire through small holes (called spiracles) in their exoskeleton connected to internal trachea. Predaceous diving beetles push the end of their abdomens through the surface film to fill their tracheal system with air connected to a bubble that forms under their wings. As the beetle breathes, oxygen decreases in the bubble. Since oxygen diffuses back into the bubble at a rate three times faster than nitrogen diffuses out, nitrogen acts to maintain the size of the bubble, creating a physical gill that lets the

beetle cruise underwater for hours before it needs to resupply. Water boatmen, back swimmers, water scavenger beetles and giant toe-biters all use an air bubble or trapped air to breathe underwater.

We've just skimmed the surface of ways some of the amazing creatures in our streams and ponds relate to their physical environment. How they mate, find food, capture prey, survive dehydration and switch from aquatic larvae to airborne adults will have to wait for another day.

Although newts are the undisputed stars of the ponds, when kids are coaxed into spending a little time looking at who needs to come up for air and who doesn't, who is able to walk on water, who spends time on the bottom and who is eating what or whom, they are led into a different world. Sprinkle in the rocket propulsion of dragonfly naiads, the four eyes of whirligig beetles, being able to walk on water and what it's like to swim through molasses and you have a recipe for a very real kind of mind-bending magic... the kind of magic docents at the Martin Griffin Preserve have been performing with children for the past forty years.

Gwen Heistand is the Martin Griffin Preserve Biologist & Co-Director, ACR Education.

Save the date!

The Art of Eating

*A Tribute to MFK Fisher
at the Bouverie Preserve*

*Saturday, May 14, 2011
2 PM — 5 PM*

*Enjoy Food, Wine and Conversation
Silent Auction - Raffle
5 Premier Live Auction Items*



The Martin Griffin Preserve

The ACR Board of Directors is pleased to announce that, in honor of L. Martin "Marty" Griffin's lifelong commitment to the environment and in recognition of the critical role he played in permanently protecting this unique section of the Marin County coastline, Bolinas Lagoon Preserve of Audubon Canyon Ranch has been renamed the Martin Griffin Preserve.

STUDYING MAJESTIC BIRDS IN THEIR COASTAL HOME

by Sarah Millus

Egrets are the quintessential wetland bird. The sight of these long-necked white birds patiently stalking their prey at water's edge is familiar to anyone who has visited this habitat. On the other hand, the sight of these majestic birds walking around the tops of redwoods is a little odd at first. It is a yearly occurrence in Picher Canyon, a small canyon off the Bolinas Lagoon in ACR's Martin Griffin Preserve, where Great Egrets and Great Blue Herons return to nest and rear their young. Usually the nesting grounds for these birds are not easily visible to humans. But the unique position of the Picher Canyon colony allows visitors to get a bird's eye view of the colony by looking down on the nests from above.

The colony at Picher Canyon has been monitored since 1967, when Helen Pratt began collecting data on the nesting birds. Helen

was an amateur naturalist who had no formal science training. Despite this, she collected data on herons and egrets in the canyon for 30 years and made numerous scientific



PHOTO BY WYN HOAG

contributions, significantly improving our understanding of heron and egret ecology and behavior. When Helen retired from monitoring the colony in 1997, Audubon Canyon Ranch took over the work she began.

I am pleased to be following Helen's footsteps, visiting vantage points she established along the trail for the best view of every nest and spending intensive periods of time watching these beautiful birds. Twice a week, I collect data on each pair of nesting

birds from the first day an adult arrives until the last chick leaves the nesting trees. There is never a dull day. This year, the most excitement came at the beginning of April, when a Bald Eagle cruised through the canyon. Although the eagle did not take any eggs or adult birds, all the incubating birds flushed off their nests.

Preliminary results for this year show that there were as many as 84 Great Egret nests and three Great Blue Heron nests. Unfortunately, the eggs in one of the nests were not viable — the eggs never hatched. Although the eggs didn't develop properly, the urge to incubate was apparently so strong that the pair continued to incubate them for two months after the expected hatch date. The birds eventually left the nest at the beginning of July.

The colony at Picher Canyon is just one of 75 heron and egret colonies throughout the northern San Francisco Bay area that are monitored by Audubon Canyon Ranch as part of the Heron and Egret Project. Data collected from all the colonies are used to determine regional changes in heron and egret populations and allows ACR to track the long-term status of these fascinating birds.

*Sarah Millus is ACR's
Helen Pratt Field Biologist.*



PHOTO BY WYN HOAG

Preliminary summary of 2010 nesting activity at Martin Griffin Preserve's Picher Canyon

	Great Egret	Great Blue Heron
Arrival date	March 9	March 17
Peak nesting date	May 28	April 23
Peak # nests	84	3
Max. # chicks observed	136	2
Failed nests	25	2
First egg laid	March 17	March 17
First chick hatched	April 16	April 16
First chick fledged	June 7	August 14

Team Work: **RESTORING NATIVE HABITAT AT THE BOUVERIE PRESERVE**

by Ken Ackerman

Every Monday the foxes scurry back to their den as the early morning quiet around Bouverie Preserve's Gilman Hall is broken by the arrival of a group of humans. We're known as the Bouverie Stewards and we have arrived ready to receive our instructions for the morning from HPR Project Leader Jennifer Potts. Pull invasive yellow star thistle? Help replace steps on the Rim Trail? Assist Bouverie Land Steward John Martin with a project? Clear a fallen tree or corral an errant cow? The Bouverie Stewards, Bouverie Preserve's habitat restoration



Stewards Bob Hahn and Cathy Schmidt spread mulch around Project GROW trees.

volunteers, have been meeting like this in growing numbers for five years. Jennifer has just informed us that we have contributed over 1,000 volunteer hours since last September — a record for us.

More important than statistics is the satisfaction each of us feels as we reflect (in the rare moments we have for reflection) on past accomplishments. The oak woodland restoration effort called Project GROW, which occupied

half our time this past year, is high on the list for John Schwonke. I join Dennis Fujita in taking particular pride in the successful removal of Himalayan Blackberry from Stuart Creek and in the opportunity to visit and assist in restoration work on other ACR properties: teasel removal at Cypress Grove Research Center and eradicating European beach grass on Toms Point. Glenda Ross reserves judgment, though she has a particular interest in the Douglas fir thinning project that engaged us for several years.

Audubon Canyon Ranch has gained a valuable resource in this group of well-trained, energetic and highly motivated individuals. Through the fusion of personal motivation and organizational leadership, we have become an extremely productive team.

But, as a team, we are only as good as our coach — in our case, our HPR project leader. It has been our good fortune to have had three outstanding managers in succession: ACR science

team staff members Dan Gluesenkamp, Sherry Adams and now Jennifer Potts.

We look forward to a future of continued mutually beneficial collaboration with HPR and the rest of the Audubon Canyon Ranch staff.

*Ken Ackerman is a Bouverie Steward
and Martin Griffin Preserve Ranch Host.*

“When I first volunteered I said I would come if it wasn't raining. Well, it poured! But I showed up anyway and have kept showing up, like a bad penny, ever since.”

- Glenda Ross

Audubon Canyon Ranch is grateful for the support of the Bouverie Stewards.

Ken Ackerman	Earl Herr
Bob Ahders	Ruth Lombard
Louise Bielfelt	Ray Rapp
Dave Chalk	Glenda Ross
Jobina Forder	John Schwonke
Dennis Fujita	Barbara Spangler
Bob Hahn	



For information on joining the Bouverie Stewards, please turn to page 11.

The Preserves of Audubon Canyon Ranch



Planned Giving at Audubon Canyon Ranch: A PROFILE OF SAM DAKIN

by Sylvia Crawford

On a recent summer afternoon, Sam Dakin leaned back in one of the wrought iron patio chairs on the porch of David Bouverie's former cottage and shared the story of how his life became merged with that of ACR's Bouverie Preserve.

It was 1990, and Sam saw an announcement in a local Audubon Society chapter's newsletter: the preserve in Glen Ellen was seeking docent trainees. He called the day before training was to begin, took an introductory hike and was heartily accepted. During a subsequent overnight visit to the Martin Griffin Preserve of Audubon Canyon Ranch, Sam noted a plaque that listed his beloved grandmother, Susanna Dakin — a 1960's environmentalist — as an early contributor. Sam was intrigued by this family connection. Sam remembered hiking at the Martin Griffin Preserve in his early childhood with his mother and grandmother and recalled the majestic birds.

Once a graduated docent, Sam began leading hikes with children and adults, and he bloomed as a naturalist educator. He loved the preserve, loved its environmental education mission and was a dependable, willing hiker

with an easy-going enthusiasm that inspired children.

Soon David Bouverie heard of this ardent new docent and summoned him. After finishing a long, rainy day hike, Sam joined David for tea in his art-filled living room. Thereafter, Sam and David met frequently and established a caring, mutually supportive friendship.

The Bouverie Preserve became a home for Sam. The bay leaf smell following a morning rain, the cry of a hawk circling the meadow midday... the midafternoon buzz of summer bees pollinating the wildflowers... the cooling rush of the waterfall... the night winds swaying the high tops of the Douglas firs... the midnight babble of Stuart Creek. These places tied him to his childhood family.

In time, David inquired if Sam, upon David's death, would be willing to resume duties of entertaining visiting dignitaries, many of whom would become contributors to the preserve. Sam agreed. After David's death, Sam came to occupy the guesthouse at the preserve. As Sam's responsibilities at the preserve increased, he realized how well Audubon Canyon Ranch was run. "I cannot imagine another nonprofit that could manage this preserve like ACR has," said Sam.

Through his involvement with the

Bouverie Preserve and his experience as a Ranch Guide volunteer at the Martin Griffin Preserve, Sam became acquainted with ACR's first naturalist, Clerin "Zumie" Zumwalt. His respect for Zumie is strong, and he marvels at Zumie's life: mountain climbing, surveying, exploration and conservation.

When Bouverie Preserve's Juniper Program began in the early 1990s, Sam was among the initial volunteers. Since then, Sam has remained an active volunteer with Junipers, the preserve's mentorship program for students who show a special interest in the natural sciences. Serving in a variety of roles at Audubon Canyon Ranch—from Director to mentor to chair of the Juniper committee, Sam is especially proud of his participation in Junipers.

Sam's spiritual connection to the Bouverie Preserve was already strong and unbreakable. When he added his support through membership in the Clerin Zumwalt Legacy Circle, Sam's love of the Bouverie Preserve was sealed in his will's remembrance.

Audubon Canyon Ranch is one of two organizations he has named in his estate plans, Sam says. ACR is honored that Sam is among the 120-plus members who have remembered Audubon Canyon Ranch in their wills. We are grateful for his — and all our members' — support.

Sylvia Crawford is a Bouverie Docent.



Sam
Dakin

ACR's Clerin Zumwalt Legacy Circle honors supporters who have included Audubon Canyon Ranch in their estate plans.

If you name ACR in your estate plans — at any amount — you become a member of the Clerin Zumwalt Legacy Circle. For more information, contact Didi Wilson, Director of Development and Communications, at 415.868.9244 ext. 13.

We welcome your call.

ACR is in strict accord with the ethical guidelines of the National Planned Giving Committee.

HONORING AN ACR VISIONARY

by Andy Lafrenz

Audubon Canyon Ranch has many blessings. To name just a few, I could cite the following: its magnificent preserves with their splendid flora and fauna, its dedicated and enthusiastic volunteers who bring ACR programs to thousands of schoolchildren and adults every year, and, of course, its professional staff, including the scientists who engage in important conservation science and habitat protection efforts. I could write a book on each of these blessings and many others.

For now, however, I want to concentrate on one very special blessing: one of our founders and our continuing ardent supporter, Marty Griffin. Marty's early involvement with ACR was detailed in the spring 2010 issue of the ACR Bulletin (see page 7 of that edition) and I won't repeat those words. His work in purchasing the canyons that border Bolinas Lagoon, forming Audubon Canyon Ranch and preventing the destruction of the natural environment along the Highway One corridor in West Marin was remarkably successful. Most inspirational to me is Marty's continuing involvement in supporting, guiding and aiding ACR's mission. As one example, he is a co-chair for ACR's Founders Campaign, a capacity-



**Andy
Lafrenz**

building campaign that is starting to bring additional funds to ACR to enable us, for example, to hire a volunteer coordinator. That person will help maximize the effective work of our many volunteers.

Marty remains an inspiration for all of us at Audubon Canyon Ranch and the entire environmental community throughout Marin and Sonoma counties. Just to read the contents of his book *Saving the Marin-Sonoma Coast* is to recognize how important his work has been. It is a testament to what a few committed citizens can accomplish.

Perhaps the most amazing thing about Marty is his indefatigable energy. On July 24, 2010, we celebrated his 90th birthday at the annual ACR Donor Appreciation Barbeque and Bluegrass Picnic held in Volunteer Canyon near Bolinas Lagoon. The food, music and companionship made for a wonderful celebration of Marty's accomplishments and continuing good work. Marty remains hardy and strong in his environmental endeavors.

In light of his stellar accomplishments on behalf of ACR, at its June 2010 meeting the ACR Board of Directors voted to rename ACR's Bolinas Lagoon Preserve the Martin Griffin Preserve. It was my

distinct pleasure to read the Board resolution recognizing Marty's many accomplishments and the renaming of the preserve at that gathering.

Marty is a treasure to ACR and the renaming of the preserve is only a small token of our love of and esteem for him. I look forward to many more years of working with Marty on behalf of Audubon Canyon Ranch.

Andy Lafrenz
Ranch Guide and President of the
ACR Board of Directors

THE MISSION OF AUDUBON CANYON RANCH

Audubon Canyon Ranch protects the natural resources of its sanctuaries while fostering an understanding and appreciation of these environments. We educate children and adults, promote ecological literacy that is grounded in direct experience and conduct research and restoration that advances conservation science.

Audubon Canyon Ranch is pleased to announce our first-ever membership program. Please see the enclosed insert and become a member today! Together, let's think globally and act locally.



www.egret.org

Calendar of Events

Guided Nature Walks Bouverie Preserve	Saturday ~ 9:30 A.M. to 1:30 P.M. Sept. 11, Oct. 30, Nov. 13, Nov. 20, 2010 Feb. 12, Mar. 12, Apr. 9, Apr. 30, May 7, 2011 Experience the beauty and rich natural history of this 500-acre preserve. Reservations required and accepted one month before each respective hike date: bouverie@egret.org or 707.938.4554. <i>Donations appreciated. \$ Docent Council of Bouverie Preserve</i>
Fall Science Salon Soundscapes: The Nature of Music and The Music of Nature Bouverie Preserve	Saturday, October 9, 2010 2:30 to 4:00 P.M. — Salon 4:00 to 6:00 P.M. — Jazz Concert with Cocktails & Hors d'oeuvres <i>The Intersection of Science & Music</i> Presented by Bryant Hichwa and several musician friends A look at musical instruments and how they produce sound, as well as a real-time demonstration of their harmonics. Draw connections to the music of nature — from bird songs to insect sounds. Ticket price: \$50; \$45 for ACR members at Sponsor Level or above RSVP by October 1 to 415.868.9244 or rsvp@egret.org . Carpooling encouraged.
Backyard Naturalist Series Bouverie Preserve	Saturdays ~ 9:30 A.M. — 2:00 P.M. October 11, 2010 Reptiles with Jeanne Wirka October 16, 2010 Native American Plant Uses & Basketry with Cheri Degenhardt February 26, 2011 Fungi with Jeanne Wirka April 2, 2011 Wildflowers with Jeanne Wirka Geared toward the adult amateur naturalist, these Saturday seminars include time in the classroom and on the trail. One to three mile hike on mildly- to moderately-strenuous terrain. Bring a bagged lunch and water for the trail. Class size is limited. \$25 per seminar. Registration required: rsvp@egret.org or 415.868.9244.
Under the Heronry Martin Griffin Preserve	Saturday, October 30, 2010 9:30 A.M. social, 10:00 A.M. start, ends at noon. Join former ACR biologist Ray Peterson for a short walk and exploration under the heronry at Martin Griffin Preserve. See the architecture of Great Egret and Great Blue Heron nests and learn about the history of this special place. Limited to 20 participants. Registration required: rsvp@egret.org or 415.868.9244. <i>Donations appreciated.</i>
Spring Work Day Martin Griffin Preserve	Sunday, March 6, 2011—Picher Canyon 9:15 A.M. — 1:00 P.M. 1:00 P.M. - lunch Help us with trail and library work, pulling weeds, planting native flowers or cooking lunch (we provide). Bring your favorite tool and gloves for outdoor projects! Registration required: rsvp@egret.org or 415.868.9244. \$ <i>ACR Staff</i>
Habitat Protection & Restoration Stewards Bouverie Preserve	Mondays ~ 8:30 A.M. to noon Bouverie Stewards work intimately with the land throughout the year at the Bouverie Preserve in Glen Ellen. This dedicated crew assists with all sorts of habitat protection and restoration work, while learning about the ecology behind the project. Examples include: removing Douglas fir seedlings, removing invasive species, using GPS units to map invasive species. Call 707.935.8417 or e-mail Jen Potts at jpotts@egret.org
Habitat Protection & Restoration Stewards Martin Griffin Preserve	Thursdays ~ 9 A.M. — noon Join Martin Griffin Preserve Stewards on Thursday mornings to help with ecological restoration in the preserve's Four Canyons. Activities include collecting seed, propagating native plants, preparing project sites, out-planting and ensuring survival of plants and renovating facilities. Call 415.868.9244 or e-mail Doug Serrill at doug@egret.org for more information.

More information on all these nature exploration opportunities is available at www.egret.org.

To keep up to date on the latest ACR happenings, **sign up for our e-newsletter**. Published once every two months, this free email newsletter highlights updates from the Preserves, including school group visits, latest findings from science staff, volunteer opportunities and ways to come explore ACR's nature sanctuaries. To sign up or to view past issues, visit www.egret.org.



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WHEN TO VISIT

Martin Griffin Preserve

Mid-March to mid-July:
Saturday, Sunday and holidays.
10:00 A.M. to 4:00 P.M.

Weekdays by appointment only;
415.868.9244. Closed Mondays.

Martin Griffin Preserve is adjacent
to Bolinas Lagoon on Shoreline
Highway One, three miles north of
Stinson Beach.

Cypress Grove Research Center

By appointment only. 415.663.8203

Bouverie Preserve

See calendar of events inside.



Audubon Canyon Ranch — wildlife sanctuaries and centers for nature education and research

Martin Griffin Preserve • Cypress Grove Research Center • Bouverie Preserve

**Preserving Wild Lands in Perpetuity
for Education, Science and Habitat**



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