Desert Trumpet
FRIENDS OF RED ROCK CANYON
July 2009

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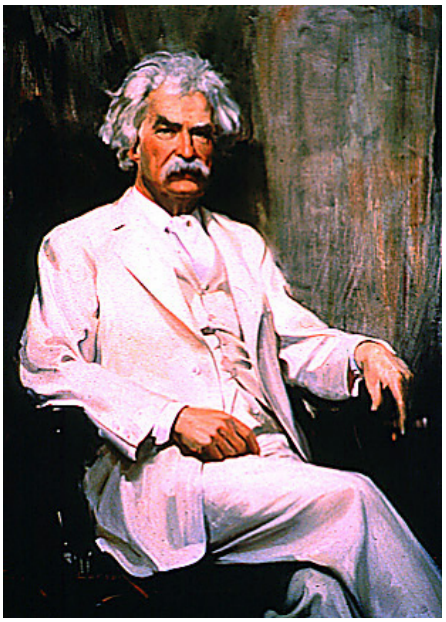
Sam Clemens in Nevada, Part 2

And so it was that Sam set off with his brother Orion for Carson City. To say that the journey was leisurely would be to imply some degree of pleasure and comfort. It certainly took time. They left on July 10th, 1861 and reached Carson City on August 14th, and, at $500, the journey was costly and, according to Sam, very uncomfortable.

Whilst Orion had a salary, Sam was unpaid and had to find himself some means of support. It was not long before he was involved in the mining industry, not as a miner, but rather as an entrepreneur. He began to trade in "mining feet." "Feet" referred to a means of assessing a mine's value and the related certificates were virtually share certificates in a particular enterprize. It comes as no surprise that some of the certificates were bogus and worthless, but there seems to be no evidence that Sam was ever involved in any shady dealings. Perhaps that is why he soon found the enterprise unrewarding.

His fertile mind led him next to venture into the timber trade on the basis that every mine needed timber to shore up the workings. It seemed a sure money-spinner, but what followed could well have been extracted from one of his novels. Sam and friends bought some woodland but, in the course of setting up camp there and ineptly lighting a fire, managed to burn it down.

If dealing in "feet" didn't pay, perhaps actually owning a mine would, so Sam decided to stake a claim along with some friends. He soon found himself involved in a dispute with some "claim jumpers." Unfortunately,



he seemed not to have researched his claim fully. The "claim jumpers" actually had a legitimate title to at least part of the claim and Sam was ordered by the court to pay them a one-eighth interest in it. Every venture seemed doomed to failure and Sam soon lost interest.

He started submitting articles to the local paper, *The Virginia City Territorial Enterprise*. Sam was a strange person with a rather large head, a shambling gait and a drawling Southern accent. He drank, gambled, smoked, swore, could be prickly, and his quick wit made people wary of him, but he could also be charming and quickly made friends with one of the Enterprise's best writers, William Wright, who wrote under the name of Dan de Quille. Sam was quickly given a permanent post with the paper because of his undoubted skill as a writer, but also because the editor perhaps saw advantage in having the brother of the Secretary of State in his employ.

Initially Sam wrote serious items on mining and local murders, but his mischievous spirit could not be held in check for long. Shortly after joining the paper he wrote a spoof article called "The Petrified Man," which fooled a local judge to come rushing to Virginia City to conduct an inquest and several national newspapers into reprinting the article in full.

Perhaps he was happier writing in that vein rather than reporting on politics in Carson City. His first ventures into the latter led him into a public dispute with Clement Rice,

Sam Clemens, *continued on p.6*

News & Notes

Just an Ordinary Star

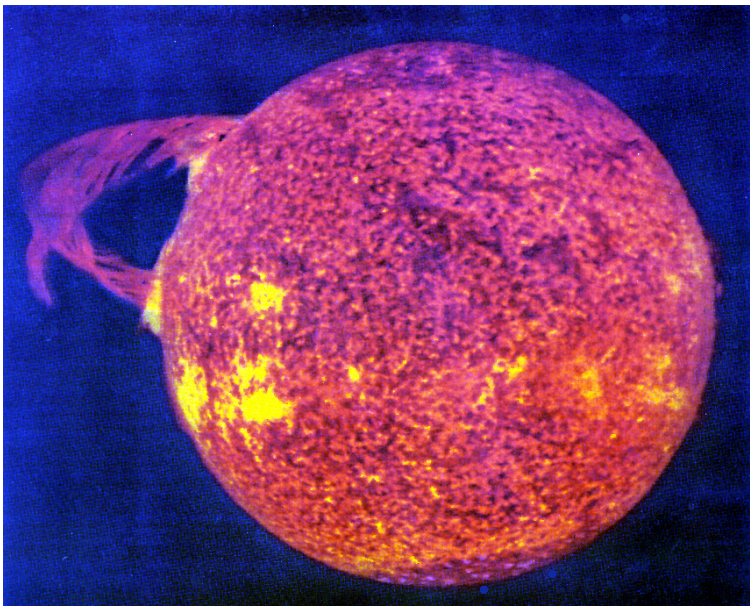
Astronomers describe our Sun as a modest yellow dwarf star about half way through its 10-billion-year life cycle. In science-speak, it is referred to as an ordinary G type whose surface glows at 5800 °K, hardly even noticeable by an observer in our galactic neighborhood.

The stars in our Milky Way galaxy are classified on a spectral scale that ranks them by temperature and luminosity, with the hottest at the top and coolest at the bottom. These classifications are O, B, A, F, G, K, and M. (Oh, Be A Fine Girl. Kiss Me!). The distribution of a star's energy radiation depends upon the mix of elements within the star. Both the classification and ranking process involve a complex analysis of emission and absorption signatures of specific atomic elements within the star (hydrogen, helium, calcium, etc.)

For blue stars (O and B), surface temperatures range between approximately 50,000 °K and 12,000, or so. They are short-lived giants, burning through their massive stores of hydrogen gas relatively quickly on an astronomical scale, perhaps in a few hundred million years. White stars (the A's and F's) rank just below the big blues, but they are also very large and very hot.

At the opposite end of the scale, the coolest "red" stars are described as having a surface temperature of less than 3,500 °K. They represent three-quarters of all stars in our galaxy. Although there are "red giants" in M class as well, these are the cool remnants of other stellar types reaching the end of their normal lives.

Most M type stars were born small and dim and are often referred to as either red or brown dwarfs. Until recently, star surveys paid little attention to them. They start out on the main sequence (normal sequence of the average star's life), their interior processes hot enough to burn hydrogen in their cores (like our sun), slowly converting it through nuclear fusion into helium as they age. Because their mass is only 7% to 60% of that of our sun, they can live (theoretically) for perhaps 20 billion years, longer than the expected life of the universe. Under certain conditions, there is speculation that even some red dwarfs could meet the conditions necessary to harbor living planets.



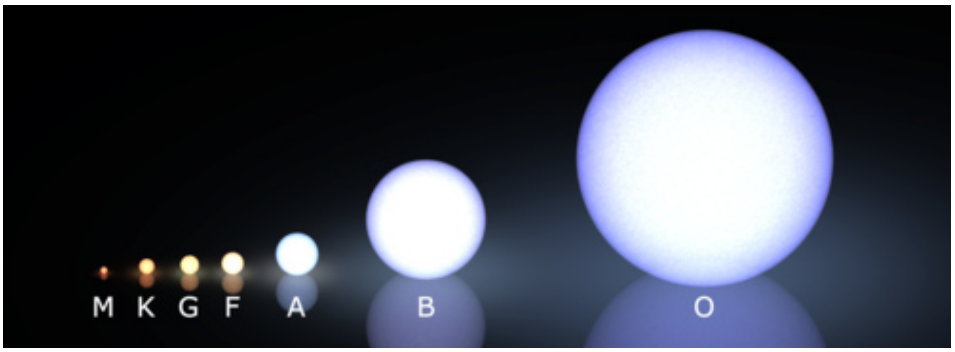
Brown dwarfs reside in no-man's land, somewhere between a star and a planet. Their light is faint and a result of convective heat (2,500 °K) rather than nuclear fusion. These failed stars live quiet lives, and because they cannot fuse their hydrogen into helium they, too, will live for a *very* long time—they are at least as old as the universe. This neglected class of objects was unknown until 1995 when infrared detectors revealed their presence.

Spectral scale rankings will never place our little G2 star in the celebrity section of a *Who's Who* in astronomical circles. G stars are also considered dwarfs because, next to the behemoth blues and whites, they are quite small and ordinary, indeed. Even so, our sun is in the top 10% of all the stars in our galaxy by mass. For various reasons, however, we can argue that our star is rather extraordinary, after all.

The gaseous nebula that gave birth to the Sun was strewn with debris from innumerable collisions in a chaotic free-for-all, eventually coalescing into planets and numerous other bodies that populate space at the edges of what would become our solar system. The eventual result was a tidy little group of planets (nine before poor Pluto was demoted), some with attendant moons, arranged in a gravitationally stable carousel around this benevolent and rather quiescent star. Luckily, our solar neighborhood has no lethal real estate nearby. Until very recently, ours was the only solar system we could point to with certainty.

Besides the planets, moons and captured asteroids in our system,

the Sun maintains sway over a huge assortment of other bits and pieces, organized in two vast disk structures at the edges of the main system, a cosmic version of suburban sprawl. The Kuiper Belt, between Neptune and Pluto, hosts many icy bodies that are either kicked into higher orbits, ejected out of the system or, sometimes, into the inner solar system as short period comets.



The much larger Oort Cloud, proposed to exist far beyond the Kuiper Belt, is a parking lot for all the leftovers bits that coalesced at the edges of the solar nebula, along with ejecta sent packing by the solar wind and the system's gravitational interactions. Here is where long period comets, such as Comet Halley, are thought to originate.

In March of this year the Kepler telescope was launched to conduct a three-year survey of 100,000 Sun-like stars in the Cygna-Lyra region of the Milky Way. It has already detected a rocky planet the size of earth in another system. Still . . . our Sun is the only *known* star, so far, to support a diverse living planet, thanks to its fortuitous axial tilt of 23.5 degrees and protective magnetic field.

Considering that the disk of the Milky Way is 100,000 light years in diameter, 1,000 light years in thickness, and contains an estimated 200 billion stars, we can boast—for the present—that our Sun is not *just* an "ordinary G-type star." It is an extraordinary body upon whose stabilizing gravity, and benevolent light and warmth all known life depends. If Earth is our anthropomorphic "mother," then surely the Sun is our "father." No matter which hemisphere you live in, even the hottest and coldest environments are habitable to some life form.

Perhaps the ancients weren't so ignorant, after all. Whether known as Helios or Ra, the Sun god was called the giver of life. He still is that.

—*Barbara Wolin*

Information Desk Specialists

You are invited to become a Frequent Smiles Club Member

Who: Eligible FriendsMembers

How: Every 50 Hours of Desk Time

What: $5.00 Gift Certificate

Where: Red Web Store
www.friendsofredrockcanyon.org

Why: In Appreciation of your smiles

Questions? Contact Sarah Valentine at the Red Rock Visitor Center at 702-515-5366

Memory Tree Program

Friends of Red Rock Canyon, at the request of the Bureau of Land Management, will establish a "Memory Tree" program at the Red Rock Canyon National Conservation Area Campground. This program will serve to both visually and environmentally enhance the Campground, as well provide a fund-raising mechanism for Friends of Red Rock Canyon.

The concept was presented at the June 2009 Board of Directors meeting and was unanimously approved.

Friends of Red Rock Canyon will offer five (5) species of trees in three (3) sizes – 1 gallon, 5 gallon and 15 gallon for donations of $50, $75 and $150 respectively. The BLM recommended and approved trees are:

- Honey Mesquite
- Screw Bean Mesquite
- Desert Willow
- Arizona Ash
- Single Leaf Ash

While memory trees are commonly planted to honor those that are no longer with us, many are to celebrate births, acknowledge anniversaries or to say 'thank you for your kindness.'

The donor will receive a plaque with their choice of wording on the Memory Tree Commemorative Wall. Trees will be planted twice a year, in the spring and fall, and will serve as lasting tributes to both the donor and honoree as well as the environment.

Applications will be available at the Red Rock Visitor Center, the Campground as well as on-line at www.friendsofredrockcanyon.org

—*Pat Williams*

News & Notes, *continued on p.5*

July PROGRAMS for RED ROCK CANYON

To provide quality programs, we limit the number of participants. Please call 702-515-5367 between 8:30 a.m. and 4:00 p.m. for times and reservations. If unable to attend a program, your cancellation is appreciated. Parents must accompany children on all programs. **Please note:** the Conservation Area is a Federal Fee Area. All entry or recreation fees apply. Visit www.redrockcanyonlv.org for hike information. Want to help with programs? Call Kate at 515-5353.

YOUTH PROGRAMS – *Limited space!*

Wed. 1, 15, 22, & 29, **"Reading at Red Rock" (Ages 3-5; Wednesdays, through August 12)** – Janis will read a story about the plants and animals of the Mojave Desert. Afterwards, children will be given the chance to discuss and draw a picture about what they have learned—a fun way to visit and learn about our desert.

Fri. 3, **"Bats are a Blast" (Ages 5-10)** – Bring the kids to join Missy for a fun and interactive program all about bats. They will learn all about the different types of bats in Red Rock with a hands-on activity, a craft and so much more.

Sat. 4, **"Calling All Coyotes" (Ages 2-6)** – Bring the youngsters to Red Rock for a fun and interactive program about coyotes. They'll learn interesting facts, do a hands-on activity and will discover how amazing coyotes really are.

Fri. 10, **"Slithern' Snakes" (Ages 2-6)** - Come to Red Rock Canyon with your little ones for a fun and interactive program with Missy about the different types of snakes in the Mojave Desert. They'll learn interesting facts, do activities and discover how amazing snakes really are!

Sat. 11, **"Fletcher Canyon" (Ages 6+)** – Join Bob and enjoy this canyon which is noted for its cool mountain breeze, perenial lush spring, a slot canyon and some plants found nowhere else in the world. If we're lucky, some early monsoon water may be coming over the falls. Mod; 3 mi.

Fri. 17, **"Flying High with the Birds" (Ages 5-10)** – Kids will have fun with this interactive program about the birds of Red Rock Canyon with Missy. They'll learn interesting facts, participate in an activity and discover how spectacular birds really are.

Sat. 25, **"Summer Arts Class" (Ages 5+)** – Join Jen for this month's art class where we'll dive into watercolors. We'll learn how to look at nature in a new way as we try our hands at painting a masterpiece. All supplies are included and no experience is necessary.

Sun. 26, **"Tracking Wildlife" (Ages 4-8)** – Join Ranger Gina to explore the diverse collection of wildlife at Red Rock. There'll be games, quizzes and a wildlife craft. Easy; ½ mi.

Fri. 31, **"Simply Spiders" (Ages 2-7)** – Bring your kids for a fun and interactive program with Missy about spiders. Kids will learn interesting facts, engage in a craft and discover how amazing spiders really are.

FAMILY PROGRAMS

Wed. 1, & 15; Sat. 11 & 25 - **"Bats of Red Rock" (Ages15+)** – Join Ranger Jim on a fascinating excursion into the night world of bats. We'll spend the evening at Red Spring listening and looking for bats.Easy, 1/2 mi. *Limited space.*

Sat. 4, & 25, "Corn Creek Spring Walk" - Corn Creek Spring feeds three ponds at this headquarters of the Desert National Wildlife Refuge. It is a major bird watching area and is prime habitat for aquatic and land plants and animals. Join Bob during the morning to observe all these creatures in a surprising setting, and learn about the history and future of the area.Easy; 1/2 mi.

Sat. 4, **"Rock Art Hike" (Ages 15+)** – Join Ranger Gina for a spectacular hike to Willow Spring. Along the way, we'll stop at an historical pictograph and petroglyph site. Easy; ½ mi. *Limited space.*

Sun. 5, & 19, **"Mountain Bike Madness" (Ages 10+; Beginner-Intermediate)** - No experience is necessary for this introductory mountain bike ride with Jen and John starting from the Late Night parking area. **Helmets are required.** This single track will be a great way to start new to the sport or dust off an old frame. 6 mi. *Limited space.*

Mon. 6, **"Monday on the Mount" (Ages 10+)** – Hike with Jen along the Lower Telephone Canyon at **Mt. Charleston,** through snaking trails alongside dense vegetation. Explore the Spring Mountain habitat that many plants and animals call home. Mod; 4 mi.

Wed. 8, **"Wildlife Walk About" (Ages 15+)** – Join Ranger Jim on a fascinating early evening excursion into the wild world of Red Rock Canyon. Come see what is watching us as we enter their world. Easy, 1 mi. *Limited space.*

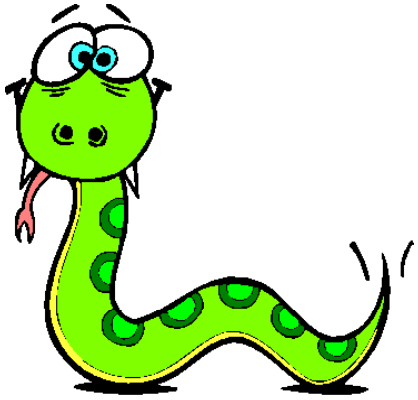
Wed. 8, **"Gateway View Full Moon Hike" (Ages 12+)** – Join Aaron on this night hike to a gorgeous overlook of Gateway Canyon and

Red Springs. With some luck, we'll arrive to see the full moon rising over Las Vegas. **Flashlight Required.** Mod; 3 mi.

Fri. 10, & 24, **"Reptile Walk" (Ages 15+)** - Join Ranger Jim on a fascinating excursion into the world of reptiles. We'll brave the herpetological primeval world of nature and observe the real life of snakes, lizards and tortoises. Easy; 1 mi.

Fri. 10, **"Bristlecone Loop" (Ages 15+)** – Hike with Claire and breathe in the fresh mountain air of **Mt. Charleston** while hiking through a picturesque forest of white fir, quaking aspen and ancient bristlecone pine trees. Elev. gain 750 ft; Mod; 6-mile loop. *Limited space.*

Sat. 11, **"Lower Calico Hills Loop" (Ages 12+)** – Hike with Claire along the



southern edge of the Calico Hills, where we'll get up close to these incredibly colorful rock formations. We'll see evidence of the Native Americans who once called this area home. *Rock scrambling* involved. *Limited space.*

Sat. 11, **"Red Spring Hike"** – Join Ranger Gina and enjoy this easy ½-mile hike at Red Spring on the wooden boardwalk. We'll learn about the sensitive species of the area. Mod; 1/2 mi. *Limited space.*

Sat. 17, **"Trail Canyon" (Ages 15+)** – Join Claire on this out-and-back hike that will have you trekking up about 1500 ft on a slope, but it is shaded with ponderosa pine and mountain mahogany trees. We'll keep our eyes open for several small caves that are carved into the limestone walls above the trail. **Strenuous;** *Limited space.*

Sat. 18, **"Wildlife Walk About" (Ages 15+)** – Join Ranger Jim on a fascinating early evening excursion into the wild world of Red Rock Canyon. Come see what is watching us as we enter their world. Mod; 2.75 mi. *Limited space.*

Tues. 21, **"North Loop Star Hike" (Ages 12+)** – Join Aaron this moonless night hike to the North Loop Meadow at **Mt. Charleston** when the sky will be packed full of stars.

Fri. 24, **"Stanley B. Springs" (Ages 15+)** – Join Claire on this out-and-back trail that gradually climbs to the remains of an old mine along Stanley Springs. We'll see a variety of butterflies and a few mountain wildflowers along the way. Mod; 2.5 mi. *Limited space.*

Sat. 25, **"Calico Tanks" (Ages 16+)** – Jump start your Saturday by trekking up approximately 500 ft to the Calico Tanks with Claire. See why some folks call this the "stair master hike." At the top, we'll take in an incredible view of the Las Vegas valley. Mod; 2.5 mi. *Limited space.*

Mon. 27, **"Monday on the Mount" (Ages 10+)** – Hike through the Rainbow hills of **Mt. Charleston** and up above an avalanche area with Jen. It's a great way to get out of the heat and enjoy the scenery. Elev. gain 1100 ft; Mod; 5.75 mi.

Tues. 28, **"Cathedral Rock Star Hike" (Ages 12+)** – Join Aaron on a Mt. Charleston night hike to a vast overlook of the Mojave Desert sky. **Bring a flashlight and binoculars** as we'll be stopping frequently to look at the moon and stars. Mod; 2.5 mi.

Fri. 31, **"South Loop Overlook" (Ages 15+)** – Get your heart pumping with Claire on this 1400-ft climb through an avalanche chute in Echo Canyon on **Mt. Charleston**. This out-and-back hike will take us through aspen and pine forests to a breathtaking view of Kyle Canyon and the various peaks of the region. **Strenuous;** *Limited space.*

Note: For more **Mt. Charleston** hikes and programs go to www.redrockcanyonlv.org/hikes_and_programs.htm for the July *Trail Source*. See page 5.

News & Notes, *continued from p.3*

If you're a volunteer (or would like to be) . . .

Friends of Red Rock Canyon and the Bureau of Land Management will be hosting a casual evening at the Rock Barbeque on Saturday, July 25 from 5:30 to 9 PM. Friends of Red Rock Canyon will supply the grilled items and condiments but you are asked to bring an item to share as well as beverages.

Plans include overviews about volunteer opportunities as well as the chance to mingle, meet new friends and reconnect with old friends. This will also be a great opportunity to view the new Visitor Center.

Please RSVP to Sarah Valentine by Monday, July 20, at 702 515-5366 or via email at sarah@friendsofredrockcanyon.org.

July Astronomy

The July 18th public astronomy program has been cancelled.

New Membership Level!

Friends of Red Rock Canyon has created a **Junior Friends** membership level, open to all children up to age 12.

All Junior Members will receive the following:

- Personalized Membership Card
- Quarterly Newsletter filled with a variety of articles on our environment and natural resources. Also, includes fun puzzles and coloring pages.
- Invitation to **Junior Friends of Red Rock Canyon** preservation programs.

Details are available at the Red Rock Canyon Visitor Center Information Desk.

News & Notes, *continued on p.7*

July

Desk Schedule

	8:30	12:30
Wed/1	G. Fazio P. Herman	L. Arthur P. Herman
Thur/2	G. Wojciechowski	J. Barret/ F. Davis
Fri/3	P. Glovin B. Jackson	R. Porche
Sat/4	R. Conductor	A. Lewis
Sun/5	D. Langdon	P. Kepner K. Nelson
Mon/6	R. Barnette	M. Pults
Tues/7	H. Weldon	OPEN
Wed/8	G. Fazio	D. Powers
Thur/9	R. Barnette	J. Barret F. Davis
Fri/10	P. Glovin	R. Porche P. Boghossian
Sat/11	P. VanDooremaal	A. Lewis
Sun/12	OPEN	P. Kepner
Mon/13	B. Jackson K. Jackson	OPEN
Tues/14	M. Slagle H. Weldon	OPEN
Wed/15	G. Fazio	L. Arthur
Thur/16	G. Wojciechowski	J. Barret/ F. Davis
Fri/17	P. Glovin	R. Porche
Sat/18	J. Kisosondi	R. Conductor
Sun/19	OPEN	L./M. Utah
Mon/20	S./S. Stenzel	M. Pults
Tues/21	M. Slagle H. Weldon	P. Kepner
Wed/22	G. Fazio	D. Powers
Thur/23	R. Barnette	J. Barret/ F. Davis
Fri/24	P. Glovin	R. Porche P. Boghossian
Sat/25	K. Nelson Sybil Stenzel	OPEN
Sun/26	OPEN	L./M. Utah
Mon/27	S./S. Stenzel	G. Das J. Das
Tues/28	M. Slagle H. Weldon	OPEN
Wed/29	G. Fazio P. Herman	OPEN
Thur/30	R. Barnette	J. Barret/ F. Davis
Fri/31	B. Jackson P. Glovin	OPEN R. Porche

Changes? Call Sarah at 515-5366

Sam Clemens, *continued from p. 1*

the editor of the rival newspaper, *The Virginia City Union*. Sam referred to Rice as, "The Unreliable." The rivalry was little more than a ploy to sell more papers, as Sam and Clement were good friends.

It seems that about this time Sam realized that the mock rivalry had a limited shelf life and set about creating a new identity for himself. There are various theories as to how he assumed the pen name of Mark Twain. One unlikely suggestion is related to his excessive drinking. It is hardly likely that he would enter a saloon with a friend and call out "Mark Twain" to the barman to indicate that a charge for two drinks should be marked up against his name on the barman's slate. The more commonly accepted theory is that he simply appropriated the term from his days on the Mississippi when the man measuring the depth of the water with the plumb line would call out "mark twain," i.e., mark two fathoms.

Sam was in great demand as a wit and raconteur at the many social gatherings in the State and was chosen as Governor of a mock legislative assembly. In spite of this popularity he had few real friends. People feared the might of his pen, and in the light of his propensity to concoct stories, they did not trust him.

It was Gridley's flour sack which was to bring an end to Mark Twain's sojourn in Nevada. The sack never got to Carson City, which led him to pen an article in which he stated that money raised at a ball held in Carson City in aid of the Sanitary Fund had been diverted and was being sent to aid a Miscegenation Society in the East. Sam said that the sack never got to Carson City because it was feared that any money raised would be similarly diverted. Sam seemed not to care that it was Orion's wife, Mollie, who had been instrumental in organizing the Ball. Mixing of races, miscegenation was, of course, anathema at that time.

Territorial Enterprise Office

Not content with antagonizing the most influential women in Carson City and, indeed, the State, Sam compounded his error by suggesting that the Virginia City Union newspaper had not paid its pledge. Laird, the publisher, challenged Sam to a duel.

Sam was totally inept with a gun, but one of his seconds shot the head off a bird shortly before Laird's entourage arrived for the duel. Laird heard the shot and when his second asked what was happening, he was told that Sam had shot the head off the bird and could

repeat shots like that at will. Laird took fright and agreed to settle the dispute without a duel.

Sam had escaped retribution, but news of the duel had leaked out. He could not escape the fact that duelling in Nevada was illegal and so it was that on May 29, 1864, Mark Twain boarded the coach bound for San Francisco.❑

News & Notes, *continued from*

Red Rock Canyon License Plate

Your purchase of the new Red Rock Canyon license plate helps to support Canyon programs and it **keeps on giving** when you renew the plate. In order to meet the charity license plate requirements to make this plate a **permanent DMV offering,** 1,000 plates **must be sold** by the end of 2009. Here's all you have to do:

- Exchange your existing plate anytime for the new Red Rock Canyon license plate at a cost of only $61.00 (plus a transfer fee of $5.00) at your nearest DMV. Renewals will cost $30.
- NO NEED TO WAIT FOR YOUR CURRENT PLATE TO EXPIRE!
- You may claim a $25.00 charitable tax deduction on the $61 when you purchase the Red Rock plate. You may claim a $20 charitable tax deduction on the $30 when you renew the plate.
- Friends of Red Rock Canyon will receive $25 of the DMV purchase cost (first year) and $20.00 of the DMV renewal cost.
- There is NO emissions inspection or registration renewal required.
- Bring your ID and vehicle registration.
- The $30.00 annual renewal can be handled through the mail.
- Plate can be transferred to a new vehicle.
- Please pick up your plate as soon as possible. The more plates on the road the first year, the easier it is to market the plate to others!

Thank you,

Norman Wolin
License Plate Committee Chair

It's Too Hot to Trot!

Registration is **open** for the 2nd Annual **"Its Too Hot to Trot"** UnRun at Red Rock Canyon National Conservation Area. This phantom event will **not** take place on August 15th, 2009, when it is **just too hot** to be active. Participants in the un-event will be **mailed** a custom Tee Shirt featuring this year's mascot, "Andre the Tortoise."

A new feature for the 2009 UnRun is the **Sweat-O-Meter contest**:

All registered entrants for the UnRun will have the opportunity to guess the temperature at Red Rock Canyon at 4 PM on August 15, 2009, the day of the un-event. The winner will receive a $75 Gift Certificate redeemable at the Friends of Red Rock Canyon on-line store.

Registration for the un-event is avaiable on-line at www.friendsofredrockcanyonorg/store.php, as well as in person and via US Mail.

Desert Trumpet

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The *Desert Trumpet* is published monthly by and for FORRC members. Statements, opinions and points of view expressed by writers are their own and do not necessarily reflect those of FORRC. Please submit all articles, photos and artwork NLT the15th of each month by calling 515-5350. If you are interested in becoming part of the *Desert Trumpet* staff or in submitting an article, contact Editor at 256-8043 or forrcnews@cox.net

FORRC is a non-profit 501 (c) (3) organization dedicated solely to the welfare of the Red Rock Canyon National Conservation Area. FORRC provides volunteers and funding for projects, including environmental education, teacher workshops, natural resource protection, cultural resource monitoring, hike programs and other services. Annual individual membership is $25.00. General meetings are held four times a year; Board meetings are held on the third Friday of each month, time/location announced in the Bulletin Board. Messages may be left at 515-5360. Visit our website at www.friendsofredrockcanyon.org

July Bulletin Board

For information concerning any event, call the Visitor Center at 515-5350

Event	Date	Time	Place	Comments
Seed Collection/Cleanup	7/4; 7/18 8/1	8 - 11 a.m.	Oliver Ranch	Call Clara 702-643-1296
Full Moon Gateway Hike	7/8	Evening	Red Rock	See page 4
Astronomy Program	***- - - - - - - - -CANCELLED FOR JULY 18 - - - - - - - - -***			
North Loop Star Hike	7/21		Mt. Charleston	See page 5
Volunteer Cookout	7/25	5:30 - 9: p.m.	Visitor Center	Bring beverages; RSVP Sarah on July 20 at 702-515-5366
Cathedral Rock Star Hike	7/28		Mt. Charleston	See page 5

"Friends of Red Rock Canyon is dedicated to the protection and enrichment of the Red Rock Canyon National Conservation Area."

FRIENDS
OF
RED ROCK CANYON
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