

OBSERVER

Newsletter of the Denver Astronomical Society
One Mile Nearer the Stars

Image copyright 2006 Philip Good

A Deep, Red Lagoon

No Brooke Shields here—the Lagoon Nebula, M8 (NGC 6523) is a giant interstellar cloud and HII region in the constellation Sagittarius. Philip Good captured this image on July 13, 2006 in South Park, CO using a Stellarvue SV80S 80mm APO refractor at f/4.8 on a Takahashi EM200 mount with an SBIG ST-2000XM CCD camera. The image is a combined Hydrogen-alpha (Ha) LRGB image. Contact Philip for more information.

AUTUMN DELIGHTS

SEPTEMBER SKIES

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Jupiter starts the month at *mvis* -1.9, only slightly dimmer than August. The Jovian giant dominates the September night sky, visible in the west-southwest. By September 11, Jupiter will lie less than one-half degree from

α (alpha) Librae. By month's end, Jupiter will be setting less than two hours after the Sun. When viewing Jupiter, observe the four Galilean moons and remember that they are so bright that if Jupiter were re-

SEPTEMBER PREDOMINANT CELESTIAL OBJECTS

Description	RA	DEC	Description	RA	DEC
Mizar, double star	12h 56.1m	54° 55'	α (alpha) Capricorni, double-double	19h 59.1m	22° 43'
M13, globular cluster	16h 41.7m	36° 27'	M31, Andromeda galaxy	0h 42.7m	41° 16'
α (alpha) Lyrae, double-double	18h 44.4m	39° 40'	M33, Triangulum galaxy	01h 33.9m	30° 39'
M57, Ring nebula	18h 53.6m	33° 02'	Perseus double cluster	02h 21.5m	57° 08'
M27, Dumbbell nebula	19h 59.1m	22° 43'	ι (iota) Cassiopeiae, triple star	02h 29.0m	67° 24'

7	Full moon ("Fruit" moon)
14	Last quarter moon
22	New moon
22 ...	Autumnal equinox (10:06 p.m. MDT)
30	First quarter moon

moved from view, the four moons would be visible to the naked eye.

Uranus is at opposition on the 5th. It will be visible all night in Aquarius; therefore, it

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President's Corner

I attended ALCON 2006 this month as the MARS regional representative. I met with some of the finest people in amateur astronomy. I came away from the convention knowing that we are one of the strongest clubs in America. This strength is due to the quiet support of our members that lets our active members promote outreach and science programs. I also know we are one of the blessed societies, as we have so many resources to call upon to support our many interests.

I spoke with several clubs that maintain Dark Sites to get some ideas of the issues they face. The DAS Dark Site committee is headed in the right direction, and with our support we will have one of the better dark sky sites as well.

Many at ALCON feel that we need something like a bright comet to rekindle interest in astronomy. Major magazine editors expressed their concerns about flagging equipment sales, and actively sought input about what we can do to reenergize enjoyment of amateur astronomy in the community.

There are about 15,000 members in the AL, where one popular magazine's US subscriptions are on the order of 100,000.

Light pollution is one cause of flagging interest. When light pollution is coupled



Stuart Hutchins and Wayne Green took the closeup picture of the damage to the fine markings on the scope. The image of the damage to markings has been altered to highlight the area of damage, not the extent. These markings are very faded. Alterations are for drawing attention to one area of damage.

Image copyright Bryan Wilburn

with social concerns such as safety at night, pressure to perform at work and school, and a dwindling sense of overall community it becomes clearer why amateur astronomy is declining. One high school in West Texas has 80 students of which 15 are members of a school astronomy club. In West Texas it is possible to read a newspaper by the light of the Milky Way. I see dark skies, support of the community in



DAS Schedule

SEPTEMBER

- 8 General Meeting at D.U.'s Olin Hall (7:30 P.M.)
- 15 E-Board meeting at Chamberlin Observatory (8 P.M.)
- 16-24 Okie-Tex Star Party
- 23 Rosh Hashanah
- 23-24 EGK Dark Site Weekend
- 30 Open House at Chamberlin Observatory (Begins at 7:30 P.M.)

OCTOBER

- 7 DAS Auction (11:00 A.M. Setup, 1:00 P.M. Bidding Begins)
- 13 E-Board meeting at Chamberlin Observatory (8 P.M.)
- 16-24 Okie-Tex Star Party
- 21-22 EGK Dark Site Weekend
- 28 Colorado Astronomy Day and Open House at Chamberlin Observatory (See Page 7)
- 29 Daylight Savings Time ends

Public nights are held every Tuesday and Thursday evenings beginning at the following times: October 1 - March 31 at 7:00 P.M.
 April 1 - September 30 at 8:30 P.M. at Chamberlin Observatory
 Costs to non-members are: \$3.00 adults, \$2.00 children.
 Please call (303) 871-5172 for reservations.

Society Directory

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Joe Gafford	Ron Pearson
Frank Mancini	David Shouldice
Ron Mickle	Dan Wray

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Colorado Astronomy Day:

Darrell Dodge

Annual Picnic:

Keith Pool

Newsletter:

Observer editor, Patti Kurtz (720) 217-5707

The Observer is available in color PDF format from the DAS website.

Website:

Darrell Dodge and Patti Kurtz

DAS Information Line:

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DAS Correspondence:

Denver Astronomical Society

Chamberlin Observatory C/O Wayne Green

2930 East Warren Avenue

Denver, Colorado 80210

The Executive Board conducts the business of the DAS at 8 P.M. at Chamberlin Observatory. Please see the Schedule of Events for meeting dates. All members are welcome.

the das.org

Dr. Roger Clark Presents

by Darrell Dodge

We're very honored to have DAS member Dr. Roger Clark present at the September 8th General Meeting on his work with the NASA Cassini mission Visual and Infrared Mapping Spectrometer (VIMS) team. The team is working to determine the composition of Saturn's rings and moons and new findings have already been produced on the moons Phoebe, Enceladus, and Titan.

The VIMS will resolve a 0.5 km spot at a distance of 1,000 km. By mosaicing multiple fields of view, VIMS will produce images comparable to and sometimes better than Voyager images. With full 352 spectral channels at each pixel, VIMS will allow detailed compositional mapping of minerals on the satellites and rings of Saturn, and of gases in Saturn's atmosphere. VIMS will image surface detail on Titan at infrared wavelengths, cutting through the thick haze which blocks views of the surface at visible wavelengths.

In addition to his work on the Cassini mission to Saturn, Dr. Clark is also a Co-Investigator for the Thermal Emission Spectrometer

(TES) Team on the Mars Global Surveyor, and a Co-Investigator on the Moon Mineral Mapper on the Indian Chandrayaan-1 mission, which is scheduled for launch in 2007.

Be sure to attend what promises to be a fascinating and entertaining presentation. The General Meeting will begin at 7:30 pm in the Room 105 lecture hall on the University of Denver Campus. There will be a reception at Chamberlin Observatory following. As always, the meeting is open to the public.

An avid deep-sky observer and imager, Dr. Clark earned his Ph.D. in Planetary Science from MIT in 1980. Roger's expertise is identifying and mapping minerals on the Earth, other planets and their satellites using imaging spectroscopy. He develops laboratory, telescopic and spacecraft spectrometers and imaging spectrometers. He has published over 160 scientific papers, including papers on every planet in the Solar System. His research includes discoveries of the compositions of planetary and satellite surfaces, and mapping the locations of minerals on the Earth and planets. He also publishes on environmental

issues on the Earth, such as ecosystems in Yellowstone, and led the USGS environmental assessment of the World Trade Center Disaster.

His photography ranges from 35mm through large format (4x5 and 8x10 cameras), as well as digital. He mainly photographs landscapes, wildlife, and the night sky. Roger's images have appeared in scientific publications, popular articles, books, magazines, and newsletters. His images have won national and international photo competitions.

September Skies

Continued from page 1

will be at its most luminous, *mvis* 5.7 and largest angular diameter at 3.7."

Saturn will be high in the east-southeast at morning twilight. The highlight of Saturn is, of course, its rings, which will be tilted less than 15° for the first time in eight years. For a more detailed description of features to observe in the Saturnian system, refer to the July issue of the Observer.

Neptune, at *mvis* 7.8 will be visible for the entire month for binoculars and telescopes. Early in August, the Moon will reach its peak brightness, so timing here is essential to identifying the most distant gas giant. If you've never observed Neptune, this is a good opportunity. There is an excellent star chart in the August issue of *Sky & Telescope* to help locate the blue giant. Using the chart, a pad of paper and pencil, start plotting the various stars in the field of view. If possible, make these observations either weekly or every two weeks through September and October and observe the movement of Neptune against the star field.

To get a great view of the planets, stars and other celestial objects, visit the DAS's Open House at sunset on Saturday, September 30 at the University of Denver's Historic Chamberlin Observatory. Remember that members of the DAS have free access to the Clark 20-inch at Chamberlin Observatory during Open House.—Ron Mickle, Chair, Public Outreach Committee (Sources: *Astronomical Calendar 2006*, *Sky & Telescope*, September 2006).

President's Corner

allowing a science club, and evidence of a strong community creating a place where amateur astronomy can flourish.

One Texas group (remember ALCON was in Texas this year) conducts workshops to raise knowledge about earth sciences for teachers. They find teachers score 40% on a basic entry quiz—a quiz that any one of you could score 100% before morning coffee! I spent time talking with a Dean of Math and Science for a Florida community college and he amplified the lack of general preparation of students that he sees in his classrooms.

This year the AL voted to move National Astronomy Day to early in the K-12 academic year, tied to the fall equinox. This shows how strongly we feel about the importance of astronomy in the K-12 curricu-

lum. Astronomy raises interesting questions. Asking how a telescope works may lead to a new optician for NASA space programs or an optometrist in the community. Using spectra to measure the stars leads to specialization in chemistry. Astrobiology questions leads to specialists in medicine and environmental sciences. Strong and accessible questions for inquisitive minds leads to interest in all aspects of science and technology. Amateur astronomy raises those questions.

Your quiet support may not be as quiet as one might think! Our taking the lead and creating Colorado Astronomy Day to place emphasis on astronomy at an appropriate time of year has reverberated at the National level. Seems we are on the right track! Is it time to speed up the train?—Wayne Green



updates

Mr. Public Night

Francis Ohmer 1914-2005
by Carla Swartz and Dave Tondreau

Dave Tondreau worked with Francis (Fran) Ohmer for several years at Chamberlin Observatory hosting public nights and wanted to share his personal memories with us:

I worked with Fran Omar in the early and mid 80s on getting the Chamberlin Observatory on the National Registry of Historic Places and Public Night. He was a dapper old gent then, and that's the way I will always remember him.

Fran worked the Public Night program for a quarter of a century. In fact he was *the* Public Night program for many years. He carried on Dr. Recht's public outreach program. He was among the founding fathers of the DAS and one of the last links to those days.

Fran loved the observatory and he took great pride in it. He looked after the observatory, and yes, Fran did windows and floors. There wasn't much he did not know about the telescope. I remember we got together with him to go over how to maintain the telescope. He was the only one that knew!



I did not know about Fran's life outside the observatory, but he had to be in his element on Public Night. I always enjoyed watching Fran in operation—he was simply a delight. His rapport with the public and particularly children was magical. There is no other way to explain it. Fran was as much a part of the Public Night experience as the telescope. I am sure thousands of visitors felt the same way.

Fran was also a contributor to the International Geophysical Year or IGY through Project Moonwatch. Project Moonwatch was composed of teams of observers with optically tracked satellites (including Russian) in the mid 50s and early 60s. The DAS had a very active and nationally recognized program. Fran received recognition from the Smithsonian Astrophysical Observatory and was featured in two Denver Post articles.

Fran's was a quiet dedication, characteristic of his, the greatest, generation. He was and will always remain a significant part of the observatory's public outreach legacy.

Fran's unanticipated passing was a blow. My only solace; knowing Fran's spirit is alive and well in many of us. Just look at a child as he or she looks through a telescope for the first time, and if you see the ghost of a dapper old gent present, it's probably Fran.—*Dave Tondreau*

The third eldest of nine children, Fran was born and raised in Iowa on the banks of the Mississippi River. In 1940, he graduated with a degree in electrical engineering from the University of Iowa. During World War II, he was an officer in the Army and assisted in the construction of the Alaskan Highway. He continued his service in Europe as a transportation officer in Paris and saw more of the continent than most generals.



Top Image: At a public viewing of Venus in 1980, Fran Ohmer shares the Alvan Clark 20-inch telescope with Chamberlin visitors. Lower left image: Fran's telescope.

Soon after the war, Fran was asked by a doctor and his friends to serve as their guide through the City of Lights. Unbeknownst to Fran, his acceptance of their request would lead him to his future wife, Marian.

Serving as a nurse in Germany, Marian used a three-day pass to travel to Paris with a fellow nurse. After spending several days together, Fran and Marian made a bet as to who would get back to the states first. Fran asked Marian to call his sister when she arrived stateside to let her know that he would be home soon. Marian found passage on a hospital ship to England and continued on to the States. As promised, Marian called Fran's sister when she returned home only to discover that Fran had already arrived. Shortly thereafter, Fran and Marian married.

Fran's first trip to Colorado was an exciting one. On a vacation in Denver to visit friends, he fell in love with Colorado's crystal clear skies. Marian also had an affinity for the state as she was raised in

o b s e r v e r s d e c k

Colorado Springs until she was seven. Her family then moved to Indiana, but Marian never forgot the Rockies and always wanted to see Colorado again. She and Fran made the decision to move to Denver, and Fran traveled back to Chicago to ask his employer, the Bell system, for a transfer. Fran and Marian raised their two daughters in Denver and their family has grown to include four grandchildren and six great-grand children.

Marian remembers Fran grinding his mirror in their basement. She thought he must have walked miles around the barrel, but he always enjoyed the process. In order to learn more about Fran's love for astronomy, Marian took Dr. Recht's "Astronomy for the Jones" course and enjoyed it very much. Cody, one of their great-grandsons just got his first telescope and Marian is happy that the family's love of astronomy is continuing with future generations.

Fran was well known for keeping the neighborhood children apprised of what was happening in the night sky. He would constantly wheel his large telescope out into the driveway to let them explore the stars and planets. During his memorial service, a ten year-old neighborhood girl spoke of Fran, and how much she appreciated his willingness to share his love of astronomy with her.

Jack Eastman has very fond memories of Fran and remembers his respect for Chamberlin and the great care he took to keep and protect the observatory. Dan Wray believes that the mirror grinding machine in the old coal bin was built by Fran in the 1950s and then donated to the DAS. Fran's legacy of teaching and his commitment to donate his time and effort so others might develop their own interest in astronomy serves as an inspiration to all of us.

Special thanks to Marian Ohmer for her time and thoughts about this special man, her beloved husband.

Congratulations to New Certified Scope Operators

by Ron Mickle

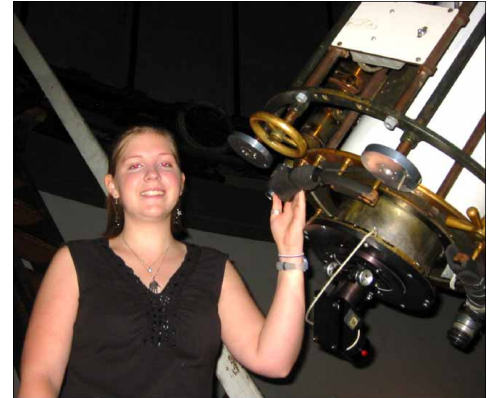
The Denver Astronomical Society and the Public Night staff would like to take this opportunity to congratulate Stuart Hutchins and Naomi Pequette on their recent certification as scope operators of Chamberlin Observatory's Clark 20-inch refractor. The pair received their final checkride July 18 from the Observatory Director and Professor of Astronomy at the University of Denver, Dr. Robert Stencel.

To achieve certification, the DAS volunteer must first have a desire to work with the public through outreach. Our primary method of outreach is through Public Nights, conducted every Tuesday and Thursday night at Chamberlin Observatory. Each Public Night staff member volunteers at least one night per month; some covering up to four nights monthly.

The volunteer begins as an apprentice, attending a training session at the observatory consisting of pre-exam, review of the Chamberlin Operations Manual, followed by a final exam. The apprentice then completes six iterations of work with a certified operator on a designated public night, followed by a sign-off each night.

When the apprentice has completed the prerequisite training, he or she will arrange for the final checkride with the Director.

Stuart has assumed the Lead Operator position for Team 3 on Tuesday nights, which includes Key Holder and Lecturer. Naomi,



New telescope operators Naomi Pequette (above) and Stuart Hutchins (below left).

at 15 years of age, is not only the youngest person to receive scope certification on the Clark, but is also active in delivering the presentations for Team 5.

As a member of DAS, if you are interested in volunteering to assist on Public Nights or Open House, please contact Ron Mickle at slingwing@comcast.net. As a volunteer, you are not required to be certified on the scope, only to have a love of the science and enjoy working with the public!

From the Editor:

As always, my thanks to all the great contributors of this issue including Steve Solon for his help with copy editing. If you find editing mistakes, they're undoubtedly mine.

I have a request to those contributing articles: feel free to submit text as Word or straight text documents. If you have accompanying images, please submit them separately as jpegs or tif files. Thanks so much! — Patti Kurtz



ALCON 2006

by Wayne Green

DAS is a member of the Mountain Area Research Section of the Astronomical League, and as such contributes to setting the direction of the League at the national level through our regional representatives. DAS member, Jerry Sherlin, is the MARS regional representative and gave me his voting proxy for the Council meeting of the League this year.



The meeting was held on the University of Texas campus in Arlington during the first part of August. The format of the AL convention is a business meeting on Thursday, field trips or activities on Thursday and Friday nights, with a banquet and awards ceremony on Saturday evening and travel home on Sunday. The complete details I will leave to *The Reflector*.

In doing my homework for the Convention, I called for a front range summit to discuss issues facing DAS and other societies belonging to MARS to be raised during the ALCON business meeting. This meeting was originally scheduled 3 weeks prior to ALCON, but had to be rescheduled at Chamberlin and on short notice. Steve Hartung from BASS, Naomi Pequette from ATOM, Gene and Debbie Schermerhorn from Southern Colorado, DAS members Darrell Dodge, Stuart Hutchins, Jerry Sherlin and myself were in attendance. Several other clubs chimed in via email. The main issues raised were the League's treatment of member privacy information, the dues structure, and what can be done to encourage growth in amateur astronomy to offset the declines we've been seeing these past few years.

I also noticed the MARS website was defunct, so I acquired the domain name ALMARS.org for the site and put up a hasty site. Debbie Schermerhorn has agreed to take over and manage the site. Many of you

know Debbie as AstroGirl.org. MARS has not held a regional meeting in several years, with Mike Murry and Jerry Sherlin holding their positions for some time. A great thanks to these folks for not abandoning the region!

There were three things on my agenda for the meeting and all were accomplished! The first thing was the treatment of privacy information by the League. The names and addresses from the DAS roster (given to the AL so everyone can receive their copy of the Reflector) are kept in strict confidence. They are not used for anything but official league business between a member and the League. Lots of other clubs feel as strongly about this as we do. The complete mailing list is not given to anyone. ALCOR names and officer names are published, to promote communications between interested parties.

The second thing was to determine the meaning of the so called 'opt-out' policy and to discuss the impact on clubs by AL dues. If more than 5% DAS members do not declare DAS as their main society, the dues go up from \$5.00 to \$7.50 per AL member. The 300 DAS members times \$2.50 amounts to a unacceptable impact on DAS funds. The DAS EBoard solved this by declaring that everyone who is a member of DAS is also member of the AL and saved over \$700 this year. This is the strategy that was used by most other clubs. It is clear to me that the AL dues policy needs to be rethought. DAS is a special case in the overall AL scheme of things, owing to our close proximity to BASS, LAS, and CSAS. For example, I am a member of both DAS and BASS. There are many other people that are members of three or more front range societies! This causes front range clubs difficulty when reporting dues obligations to the AL.

The third thing was to promote a local astronomy day on a state by state basis. DAS conducts our own Colorado Astronomy Day (28 October this year!) because we have a higher probability of good weather in that season. Kelly Beatty, editor of *The Night Sky*,

addressed the Council and opened a discussion of moving National Astronomy Day from April to some other time. I tossed in the reasoning for Colorado Astronomy Day and pointed out that having the day in April tends to suggest that astronomy is not an important field of study for K-12 students. Putting the day earlier in the K-12 academic year affirms our belief of the importance of astronomy to science education. Everyone agreed, and National Astronomy day has been moved from the April time frame to the Fall equinox (22 Sept) time frame. The next National Astronomy day will be in April of 2007, followed by a second National Astronomy day in September of 2007. The day will be in the September time frame in 2008 and subsequent years. This provides a benefit for national publications by having a promotional event near the start of the Christmas shopping season. The support of equipment manufacturers is important to us, so we all win!

There was discussion of bringing the 2009 AL National Convention to the Boulder area. Richard Schmude of ALPO and Elizabeth Waagen of AAVSO expressed interest in bringing their groups to the same meeting. This is similar to the ALCON 2004 in Berkeley. Boulder has SWRI for the ALPO folks, and CU has lots of stellar programs for the AAVSO folks. In addition there is LASP, NCAR, NREL, and local observatories and planetariums. This hasn't gone beyond the discussion stage at this time. One BASS member, Bill Travis, has expressed strong interest in hosting ALCON 2009 in Boulder. There are around 10 regions in the AL, so each region should expect to host a National Event about every 10 years. I think we can support BASS and perhaps LAS in hosting the event. We had our turn in the barrel back in the late 90's.

I ran into Darryl Nye, former DAS president and active member from the early 1960's on. We had quite an interesting chat.



I had a long discussion with Richard Schmude of ALPO about what DAS can do to make contributions to ALPO. He suggested that all we need to do is send unprocessed FITS images from all our cameras, together with the dark frames and ALPO can do the rest. Bands of Jupiter, magnitude variations of Uranus and Neptune, and imaging of the Martian ice caps are but a few of the many things we can observe. During a photo imaging run, take a few quick images of Mars, Jupiter, Saturn, Uranus and Neptune and send them his way.

Elizabeth Waagen of AAVSO told me there are a lot of variable stars that have their minima below 12th magnitude, but that people do not make many observations of stars when they are at their minima. This leaves lots of opportunities to make observations of these stars to define the light variations at their minimum level. The light curve of Chi Cygnus (active at this time) points out the few observations a minima.

Of note: Elizabeth Waagen received the AL's Leslie C. Peltier award this year for astronomical observations of a lasting nature. She confided in us that she has about 17 observations in the AAVSO database. I realized there are three aspects about observations: 1) actually making the observation, 2) managing observations, and 3) analyzing the data. Elizabeth stepped up to the plate during the interim time between AAVSO directors Janet Mattei and Arne Henden.

Her nurturing of the AAVSO data, and the expansion of data collecting and management programs during this time more than qualify her for this award. She is quick to point out that the whole AAVSO staff shares the work and that she is but

one voice of many - but her contribution is well recognized and she is very deserving of the Peltier award.

Oh yes, John Dobson was appointed to be an Honorary Member of the Astronomical League this year.

Jupiter through the Clark 20-inch Refractor

The image was taken on Thursday, May 18, 2006 after the DAS Public Night. 600 frames of video were taken and processed to yield the image. The video was taken with the ToUcam II camera mounted in place of the eyepiece. The image is "off" in color because the optics of the 1894 telescope introduce some color shift: Blue light does not focus at the same point as the other colors do.



Image copyright 2006 Bryan Wilburn

Colorado Astronomy Day Update

Colorado Astronomy Day is Coming on October 28th!

Planning is well underway for the 2006 edition of Colorado Astronomy Day, a combined effort of the DAS, the Denver Museum of Nature & Science (DMNS), CU Boulder's Fiske Planetarium, and other Colorado astronomy organizations.

In Denver, the day will start at the museum, where DAS members and Active Teens of the Museum (ATOM) will be conducting solar observing for visitors on the atrium and providing support to the DMNS

"Space Odyssey" during the late morning and afternoon. DAS will have a large table display on the main floor and there will be a full slate of astronomy presentations at the DMNS as well. In the evening, activity will swing over to DU's Chamberlin Observatory, where the DAS will host an enhanced astronomy Open House, with assistance from ATOM.

In Boulder, Fiske Planetarium will host a "Traditional Astronomy of Mexico" celebration at the planetarium on the CU campus starting at 2 P.M. Featured presenters include

storyteller David Young and artist Stevon Lucero.

John Anderson has already promised to bring his solar spectroscopy display to the museum. Other DAS members interested in participating in the solar observing or other activities should contact Darrell Dodge at 303-932-1309 or E-Mail dmdodge@aol.com. There will be a sign-up form at the September 8th General Meeting.

Detailed and updated information will be available at www.coloradoastronomyday.org—Darrell Dodge.



About the Denver Astronomical Society

Membership in The Denver Astronomical Society is open to anyone wishing to join. The DAS provides trained volunteers who host educational and public outreach events at the **University of Denver's Historic Chamberlin Observatory**, which the DAS helped place on the National Register of Historic Places. First light at Chamberlin in 1894 was a public night of viewing, a tradition the DAS has helped maintain since its founding in 1952.

The DAS is a long-time member in good standing of the **Astronomical League** and participates in **NASA's Project Astro** program.

The DAS' credo is to provide its members a forum for increasing and sharing their knowledge of astronomy, to promote astronomical education to the public, and to preserve **Historic Chamberlin Observatory** and its telescope in cooperation with the University of Denver.

The DAS is a 501(c)(3) tax-exempt corporation and has established three tax-deductible funds: the Van Nattan-Hansen Scholarship Fund, the Public Outreach Fund, and the Edmund G. Kline Dark Site Fund. To contribute, please see the bottom of the membership form for details.

More information about the DAS, its activities, and the special tax-deductible funds is available on the DAS web site at www.thedas.org.



**APPLICATION FOR MEMBERSHIP TO THE
DENVER ASTRONOMICAL SOCIETY**

New Renewal

Name: _____
 Address: _____
 City, State, Zip: _____
 Phone numbers: Home () Work ()
 E-mail Address: _____
 Occupation: _____
 Other Interests: _____
 (Students Only) School: _____ Grade: _____

Do you want to download the newsletter in PDF format from our website instead of by postal mail?
 Yes No

Do you want the above information excluded from the yearly roster?
 Yes No

Please Circle All That Apply:

Regular Membership: \$35 Students: \$12 (*Students under age 23*)
 \$ _____

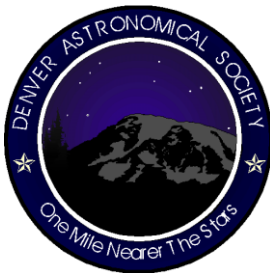
Astronomy Magazine/\$34
 Sky & Telescope Magazine/\$32.95
 \$ _____

Van Nattan Scholarship Fund \$ _____

Public Outreach Fund \$ _____

Total Amount Paid \$ _____

Please make donations to the Dark Sky Site Fund payable to the DAS EGKDS Fund and mail to Steve Solon, 9774 W. Elmhurst Place, Littleton, CO 80128-5199. Please make other amounts payable to the Denver Astronomical Society and mail along with this completed form to Brad Gilman, DAS Treasurer, 7003 S. Cherry St., Centennial, CO 80122-1179.



Denver Astronomical Society

c/o Chamberlin Observatory
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