



March, 2001

At the March 2 meeting...

Triple Nickle Observing Techniques

**Learn the observing secrets of the
masters at the March meeting**

Houston Astronomical Society GuideStar

Starline - 281-568-9340

Houston Astronomical Society presents *Starline* -- a recorded message of Society events and astronomical happenings. This service is updated regularly, so call often to keep up-to-date on Society functions, new comets and more.

HAS Web Page: <http://www.astronomyhouston.org>

Schedule Changes & Up-To-Date Information

See the GuideStar's Monthly Calendar of Events to confirm dates and times of all events for the month, and call Starline for any last minute changes.

Observatory Site Telephone: 979-732-8861

★★★★★ *The Houston Astronomical Society* ★★★★★

The Houston Astronomical Society is a non-profit corporation organized under section 501 (C) 3 of the Internal Revenue Code. The Society was formed for education and scientific purposes. All contributions and gifts are deductible for federal income tax purposes. General membership meetings are open to the public and attendance is encouraged.

★★★★★ Officers & Past President ★★★★★

| | |
|--|---|
| President: Kirk Kendrick H: 281-391-3834 | Treasurer: Debbie Moran H: 713-666-9428 |
| Vice Pres: Bill Leach H: 713-863-8459 | Past President: Don Pearce H: 713-432-0734 |
| Secretary: Art Ciampi H: 713-665-5008 | |

★★★★★ Additional Board Members ★★★★★

Liaison responsibility

| | |
|------------------------------------|-----------------------------------|
| George Dolson 713-721-1560 | |
| Bill Flanagan 713-699-8819 | |
| Howard Leverenz 713-957-8667 | |
| Jay Levy 281-557-4920 | Field Trip and Observing, Program |
| Larry Wadle 281-395-6290 | |

★★★★★ Committee Chairpersons ★★★★★

| | |
|--|---|
| Audit Gary Hlivko 713-864-2541 | Program Scott Mitchell 713-461-3020 |
| Education Richard Nugent 713-910-5945 | Publicity Brian Cudnik 713-460-1093 |
| Field Tr./Obsg. Steve Grubbs 713-455-5701 | Telescope Darin Palmer 713-223-3123 |
| Novice Warren Wundt 713-697-2960 | Welcoming Marg Nunez 713-529-2549 |
| Observatory Michael Dye 281-498-1703 | |

★★★★★ Ad-Hoc Committee Chairpersons ★★★★★

| | |
|--|---|
| Historian Leland Dolan 713-529-0403 | Publ. Star Party Marg Nunez 713-529-2549 |
| Librarian Peggy Gilchrist 281-558-1190 | Rice U. Coord. Matt Delevoryas 713-795-0808 |
| Logo Mds Sales Judy Dye 281-498-1703 | Schedule Obs'v'ty Steve Goldberg 713-721-5077 |
| Long Range Plan Bill Leach 281-863-8459 | Texas Star Pty Steve Goldberg 713-721-5077 |
| Parliamentarian Kirk Kendrick 281-391-3834 | |

★★★★★ Special Interest Groups & Help Committees ★★★★★

These are now listed on the inside of *GuideStar* (not every month). See the Table of Contents

★★★★★ Advisors ★★★★★

| | |
|---------------------------------|-------------------------------|
| Dr. Reginald DuFour, Rice Univ. | Dr. Lawrence Pinsky, U. of H. |
|---------------------------------|-------------------------------|

★★★★★ Dues and Membership Information ★★★★★

| | |
|-----------------------------------|----------------------|
| Annual Dues: Regular \$33.00 | Student \$5.00 |
| Associate \$5.00 | Honorary None |
| Sustaining . \$50.00 | |

All members have the right to participate in Society functions and to use the Observatory Site. Regular and Student Members receive a subscription to *The Reflector*. Regular, Student, and Honorary Members receive *The GuideStar*. Associate Members, immediate family members of a Regular Member, have all membership rights, but do not receive publications. Sustaining members have the same rights as regular members with the additional dues treated as a donation to the Society. *Sky & Telescope* mag \$29.95/year, *Astronomy* mag \$29/year -- see club treasurer.

Membership Application: Send funds to address shown on outside cover of *Guidestar*. Attention - Treasurer, along with the following information: Name, Address, Phone Number, Special Interests in Astronomy, Do you own a Telescope? (If so, what kind?), and where you first heard of H.A.S.

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Call the Starline, 281-568-9340 for updates and changes

Welcome to New Members!

The Houston Astronomical Society encourages you to join our group of active amateur astronomers and take advantage of the benefits of membership. As a member you'll have access to the club observing site near Columbus, Texas. (You're required to participate in a site orientation meeting before you get the gate lock combination.) The site has concrete pads for setting up your telescope, restroom and bunkhouse facilities, and areas set aside for camping. No new members this month. You'll get monthly issues of the *GuideStar* newsletter, you'll get to vote and to serve the organization as an officer, and you will be supporting the local amateur astronomy community.

Special Interest Group Listing

Any member who wants specific information on a SIG listed below may call the listed individual. Also, see the "Ad Hoc Committee Chairpersons" on the inside front cover and the "Special Help Volunteers" listing (not in every issue).

| | | |
|---------------------------|-----------------------|--------------|
| Advanced | Bill Flanagan | 713-699-8819 |
| Comets | Kenneth Drake | 936-890-3735 |
| Lunar & Planetary | John Blubaugh | 713-921-4275 |
| Occultations & Grazes ... | Wayne Hutchison | 713-827-0828 |
| Advanced | Bill Leach | 713-863-8459 |

Observations... of the editor

by Bill Pellerin, GuideStar Editor

It was hazy last weekend, but there wasn't much moon in the sky, so I got out the telescope anyway. It was really quite pleasant. Without really clear skies the only objects that could be observed were some brighter ones. I was checking out some objects in the constellation Cancer, which is well positioned this time of the year for observing.

Every month in *Sky & Telescope* magazine, Sue French (on the back of the monthly sky map) writes an article about some interesting objects to observe. It's a fun article providing some detailed observing information and it's information that you can take out to your observing site. I usually tear out the monthly map and the article and observe the objects that she details in the article. Many of these objects will be 'old friends' to those of us who have been observing for a while; nevertheless, it's nice to re-visit with old friends from time to time.

The January 2001 *Sky & Telescope* has a nice list of double stars, compiled by Alan Adler, that are available for viewing right now, and the April issue, which arrived at my house today, has an article by Sissy Haas about some double stars that are available. If you're a double star observer, like I am, you're going to have enough information to keep you busy for a while.

Speaking of stars... I noticed that David Levy's article (in April *S&T*) about his favorite deep sky objects includes Algol, the demon star. This star is an eclipsing binary whose brightness minima can be predicted, and are published in *S&T*. I've never made a systematic observation of Algol, but I may just give it a look.

Jupiter and Saturn remain in the evening sky, but they're in the western part of the sky and they set a lot earlier than they used to. Still, they're good objects for every observing session. Check out the Jovian moon events table from the *Observer's Guide*. Even if you've seen these planets hundreds of times, it's always fun to look at 'em again.

..Bill

Houston Astronomical Society

***Meeting Notice
For Friday, March 2, 2001***

Triple Nickle Observing Techniques

***Why is it that some observers see more
detail, and more objects than others?
Find out how to improve your odds.***

Schedule of meeting activities:

All meetings are at the University of Houston Science and Research building. See the inside back cover for a map to the location.

**Novice meeting: 7:00 p.m.
Across from Room 117**

Novice Committee -- Looking for observing buddies that can help you get started in astronomy? Join the Novice "Committee" at 7pm on the night of each regular HAS membership meeting. Each month we focus on a "topic of interest" requested by the group, and spend some time just talking about astronomy - from observing Messier objects to aligning your telescope to what's in Houston skies.

**Site orientation meeting: 7:00 p.m.
Classroom**

**General meeting: 8:00 p.m.
Room 117**

**See the inside back cover for a map
and more information.**

March/April Calendar:



Photo by Scott Mitchell

| <i>Date</i> | <i>Time</i> | <i>Event</i> |
|-------------|-------------|--------------|
|-------------|-------------|--------------|

March

| | | |
|----|------------|--|
| 2 | | HAS Club Meeting |
| | 7:00 p.m. | Novice Presentation - U of H |
| | 8:00 p.m. | General Membership Meeting U of H |
| | 8:03 p.m. | First Quarter Moon |
| 9 | 11:23 a.m. | Full Moon |
| 13 | 7:30 p.m. | Advanced SIG Mtg. Rice Univ., contact Matt Delevoryas, 713-795-0808 |
| 16 | 2:45 p.m. | Last Quarter Moon |
| 17 | | Members Observatory Night-Columbus |
| 20 | 7:21 p.m. | Spring Equinox-sun moves north of celestial equator |
| 24 | 7:21 p.m. | New Moon |
| | | Prime Night-Columbus |

April

| | | |
|----|------------|-----------------------------------|
| 1 | 2:00 a.m. | Daylight Savings Time Begins |
| | 5:49 a.m. | First Quarter Moon |
| 6 | | HAS Club Meeting |
| | 7:00 p.m. | Novice Presentation - U of H |
| | 8:00 p.m. | General Membership Meeting U of H |
| 7 | 10:22 p.m. | Full Moon |
| 15 | 10:31 a.m. | Last Quarter Moon |
| 22 | | Lyrid Meteor Shower Peak |
| 23 | 10:26 a.m. | New Moon |
| | | Prime Night-Columbus |
| 30 | 12:08 p.m. | First Quarter Moon |

*Send calendar events to JBlubaugh@aol.com
or call 713-921-4275.*

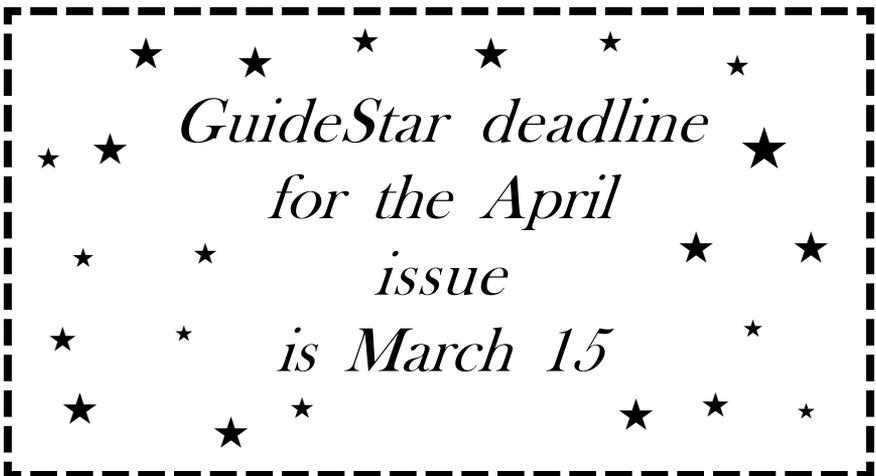
Membership Renewals...

Please check the mailing label on your copy of the *GuideStar*.

It'll tell you when your membership expires. If it expires soon, please send your renewal to the address on the outside cover of *GuideStar*. The dues information is on the inside front cover.

Membership in the Houston Astronomical Society is one of the great bargains in Astronomy. For a regular membership of \$33 you get the opportunity to support an active and growing organization, you get the monthly *GuideStar* newsletter, and you get access to the outstanding H.A.S. observing site near Columbus, Texas. (You must attend an orientation, given monthly, to use the site.) And, after two months of membership you can borrow, at no charge, one of the Society's loaner telescopes. It's the best deal in town, we think. Please renew your membership when it expires.

Thanks!



On The Dark Side

by Bill Leach, Vice President

The December 2000 newsletter of the International Dark Sky Association (IDA) is filled with good news of communities of astronomers throughout the world who have successfully established support systems that help to preserve dark skies. In Rome and the surrounding region of Lazio, light pollution laws were enacted on April 12, 2000. Astronomers in Canada are proposing a National Dark Sky Sanctuary on Manitoulin Island. New laws in Oshawa Canada and a new awareness group in Malta are also part of these successes. St. Louis has changed its mind about illuminating the skies above the city with huge beacons of light.



The basic problem is an ancient one. The need to destroy the dark with light to provide security and a sense of well-being. Our cities have grown in leaps and bounds along with our population. The more people the more the light is spread across the land. If you buy a house or ranch out in the boonies, the first thing you want is to illuminate the place to increase security. The IDA and many astronomy groups across the country are trying to convince landowners and legislators to financially benefit by reducing wasted upward light. It is very difficult to convince a person to adopt these procedures as it involves an expenditure and most people have other items higher on their agenda. Reducing wasted light will only slow the problem down, it can't eliminate it. Take a look at a nighttime satellite image of Texas. East Texas is lit up like a Christmas tree. It is not economically sound to permanently protect a large enough tract of land to ensure a dark-sky observing sight. West Texas is probably the darkest in the U.S. but even west Texas will eventually fall as a victim to needed light. Maybe not in our lifetime, but when it comes to preserving dark skies one must think way beyond a single individual's needs. The fact that what is light pollution to one person may not be light pollution to another person also further complicates the problem. The popular iridium flares that optical astronomers enjoy so much come from satellites that pollute a band of radio waves

Continued...

On the Dark Side... from previous page

that is vital to radio astronomers in their quest to determine chemical composition.

The Long Range Planning Committee of the Houston Astronomical Society has been activated by Kirk Kendrick, President of the society, to answer these challenges and to develop a plan to update our technology. The Vice President, Bill Leach, will chair this committee. Suggested agenda items include:

1. What is the future of the Columbus site?
2. Should the Society seek a different site?
3. Maybe a centralized "state site" for all clubs and societies?
4. Should the Society consider a 30-in or greater aperture telescope?
5. What kind of imaging systems should the society consider?

All members of the Houston Astronomical Society are encouraged to be active in this effort. You may choose to provide input by E-mailing your concerns to the President or Vice President or any member of the long range committee. Better yet, you may choose to serve on the committee. If you wish to serve on the committee then please E-mail Bill Leach at astrobil@flash.net or contact him at the next meeting. The society needs your ideas and vision of our future. A first meeting date and time has been established for Thursday, March 8, 2001 at 7:30 PM at the Fifty Nine Diner at the Southwest Freeway between S. Shepherd and Greenbriar (3801 Farnham, 713-523-2333). This first meeting will be an organizational meeting intended on establishing general goals and procedures.

Observatory Corner will not appear this month

Got a Message?

The Welcoming Committee of the Houston Astronomical Society will start advertising Society events on a “moving message” LED electronic sign during the first 30 minutes of the general membership meeting. The sign will promote astronomy events there are pertinent to the general membership like “star parties”, Astronomy Day the banquet and picnic. If you have a message or an event that needs advertising then please contact Marg Nunez or Bill Leach a few days before the meeting.

Bill Leach
Welcoming Committee

Science Fair Judges Needed

Volunteer Judges are needed
for the 42nd annual Science Fair
Friday March 23, 2001...

...to Judge Astronomy related projects. Judging will determine 1st and 2nd place finishers in the Junior, Ninth Grade and Senior Divisions. The Houston Astronomical Society has Judged in the Science Fair for many, many years, so plan to take off that Friday and help out with the Judging. For more information, contact Richard Nugent at JackiesDad@weblore.com.

A Bed and Breakfast for Astronomy

by Lou Zyla

It has always been a dream of mine to open an establishment which caters to amateur astronomy. I always wondered why so few lodging businesses catered to stargazers. I have had an opportunity to visit Star Hill Inn in Las Vegas, New Mexico and wondered why Texas couldn't have such a wonderful place. Well opportunity came along in 1998 when my wife and I bought a property between Wimberley and Blanco, Texas. My wife has always wanted to operate a bed and breakfast and both of us are nature lovers so we found a beautiful 20 acre site in the Hill Country far from the city and full of hills, woods and streams which flow for days after a rain. We restored an existing cottage on the land and built yet another stone cabin which we currently live in. The 2 bedroom cottage is our start at a bed and breakfast. We named the bed and breakfast Starry Nights. The site is situated on the divide which separates the Blanco River valley from the Pedernales River valley. The divide rises for more than 300 feet above the valleys and offers breathtaking vistas all the way to Canyon Lake. We are located 60 miles from San Antonio and 50 miles from Austin. We are southwest of Austin and most of the development in that area has occurred north of downtown Austin. South Austin has pretty good skies for a suburban area. The closest city to us is Wimberley which is located 15 miles away.

Well what about our sky. I went to the International Dark Sky Association web site and typed in our coordinates and out came an assessment of limiting visual magnitude of 6.8. There program is based on satellite imagery and covers much of the world. My own personal rating according to the new Bortle Sky index is between "rural sky" and "typical truly dark site". The Milky Way is striking at night with granularity visible. The bright globulars are all naked eye objects and M33 is also barely visible. The little dipper, my favorite test of sky darkness, is a bright constellation. I haven't yet looked for the zodiacal light. There are no streetlights or yardlights within a half mile of our property. The light domes of Austin and San Antonio are effectively shielded by the numerous hills in the area. Though I plan to have telescope equipment for rent in the future there is nothing available right now. There is power available in the field however for your equipment. Light out conditions suitable for astrophotography prevail every night.

Continued....

A Bed and Breakfast for Astronomy

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This is an astronomy place your spouse will enjoy too. The antique shops, galleries and flea markets of Wimberley and Blanco beckon. Canyon Lake and the Guadalupe river are a short 30 minute drive away. For those willing to drive further, the attractions of Austin and San Antonio can be enjoyed. My wife has tastefully decorated the cottage in the country style. It has a full kitchen and private bath and sleeps 4, 6 if you count the sleeper couch. Breakfast is also served but for the astronomy crowd you can have it for lunch. Bed and Lunch doesn't sound quite right though.

Pictures and descriptions of Starry Nights are available on the web at starrynight.homestead.com. All reservations are handled through All Wimberley Reservation Service as described on the website. Please come out and spend a weekend at Starry Nights.

HAS Logo Sales

by Judy Ann Dye

If you are interested in any of the following items and would like to place an order, please contact me (Judy Dye) at 281-498-1703, or send a check for the items requested to 12352 Newbrook, Houston Texas, 77072-3910. Below is the current list of logo items for sale:

| | |
|--|-----------------|
| Grey Hooded Sweatshirt (M to XL) | \$25.00 |
| 22 Ounce Thermal Cup | \$5.00 |
| Observe Messier | \$4.00 |
| Observe Comets | \$7.00 |
| 2001 Observer's Handbooks | \$ 15.00 |

The Minutes of the Houston Astronomical Society Meeting of the Board of Directors *January 30, 2001*

Kirk Kendrick called the meeting to order at 7:49 P.M.

Attendees: Kirk Kendrick – President
 Bill Leach – Vice President
 Debbie Moran – Treasurer
 Art Ciampi – Secretary
 Jay Levy - Director
 Don Pearce – Ex Officio
 Howard Leverenz – Director
 Bill Flanagan – Director
 George Dolson - Director

Debbie Moran – Treasurer reported that the total liabilities and assets of the Houston Astronomical Society was equal to a sum of \$23,194.49. A copy of the complete financial statement covering the following: Budget vs. Actual Expenditures covering the period of January 2000 through - December 2000, a Profit and Loss statement for the same period and a Balance Sheet as of January 25, 2001 has been entered into the permanent record.

The following motion was made: “Resolved the Board of Directors would accept the accuracy of the reports as presented Treasurer Moran and entered into the permanent record. The resolution was accepted unanimously.

The minutes of the January 5, 2001 General Membership Meeting, accepted unanimously by a resolution the members.

The meeting was adjourned at 8:56 P.M. by acclamation.

Art Ciampi - Secretary

Minutes of the Houston Astronomical Society General Membership Meeting *February 2, 2001*

The meeting was called to order by President Kirk Kendrick at 8:24 P.M.

Attendance was 110 including members and guests.

President Kendrick proposed a Long Range Planning Committee to set a course for the future of the organization.

Bradley Schaefer made the presentation for the evening entitled "Super Flares On Other Stars".

The meeting was adjourned at 10:24 P.M. by acclamation.

Art Ciampi - Secretary

HAS Web Page

The Houston Astronomical Society Web page has information on the society, its resources, and meeting information.

The address is: <http://www.astronomyhouston.org>

Want your astronomy work and name on the Internet for the whole world to see? Have some neat equipment? Pictures in film, CCD, hand drawings or video format are all welcome on the page. Do you have an idea to improve the page? I'm listening. Send me Email at goldberg@sccsi.com. (You can click on my name on the HAS home page). Or, you can call Steve Goldberg (WebMaster), at 713-721-5077.

H.A.S Banquet a Big Success

by Bill Pellerin, GuideStar editor

The H.A.S. banquet was held this year at the Marriott on the West Loop, near San Felipe. Guests had a choice of three entrees, chicken, beef, or vegetarian and all meals were accompanied by a salad, a beverage, and a dessert. Wine was available for purchase before the meal.

The food was quite good, and very well served. The hotel staff did a good job. Table centerpieces were designed and constructed by Marg Nunez, who also pulled the whole event together on short notice. The centerpieces consisted of tree branches with stars, simulating a starry evening -- perhaps at the H.A.S. observing site.



Marg Nunez
Banquet Organizer

The main speaker at the banquet was Carolyn Shoemaker (see the February issue of the *GuideStar* for a short biography). Carolyn Shoemaker told us about the work that she had done with Gene and with others

to understand the nature of impactors on the geology of the earth. As with most successful ventures, it was more perspiration than inspiration. There were many weeks away from civilization, eating and sleeping in the car. The work involved gathering data from these sites and, once back home, reducing the data so that conclusions could be drawn.



Amelia Goldberg, Carolyn Shoemaker,
and Steve Goldberg at the banquet

Carolyn supplemented her talk with slides showing some of the sites she had visited over the years. In addition, she reviewed

Continued...

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the circumstances surrounding the Shoemaker-Levy 9 comet and its discovery. The story involves the discovery of the comet, under less than ideal conditions, using less than ideal film. It demonstrates the value of sticking with your work even when problems arise.

Before and after the talk, Carolyn Shoemaker visited with the attendees and signed autographs. For further information on the work of Carolyn and Gene Shoemaker, read the book *Shoemaker* by David Levy.

Brian Cudnik, who had worked with Carolyn Shoemaker, arranged for her visit.

Thanks for the photos by Kent Francis!

Other Meetings...

Brazosport Astronomy Society meets at 7:00 p.m. on the 2nd Thursday of each month in the Planetarium of the fine Arts Center at Brazosport College. Call Steve Lamb for program details (409) 297-3984

Fort Bend Astronomy Club meets the third Friday of the month at 8:00 p.m. at the First Colony conference Center. Novice meeting begins at 7:00, regular meeting begins at 8:00. Web site: <http://rampages.onramp.net/~binder/>

Johnson Space Center Astronomical Society meets in the the Lunar and Planetary Institute on the 2nd Friday of each month. Web site: <http://www.ghgcorp.com/cbr/jscas.html>

North Houston Astronomy Club meets at 7:30 p.m. on the 4th Friday of each month in the Teaching Theatre of the Student Center at Kingwood College. Call 281-312-1650 or E-mail bill.leach@nhmccd.edu. Web site: www.astronomyclub.org

Observatory Duty Roster

by Michael B. Dye, Observatory Chairman

This is the duty list for March, April and May. Some names may have been moved from one month to another to accommodate some conflicts. If you are listed in this roster, please be sure to contact your supervisor for any information that you may need and the date and time to be at the site. You may change from site duty to open house or from open house to site duty by pre-arrangement with the Site Supervisor for that month. Changes between months require Observatory Chairman coordination.

March Supervisor Allen Gilchrist 281-558-1190
John Chauvin Site
Brian Cudnik Site
George M. Dolson Members Observatory Night 03-17-01
Kenneth Drake Site
John D. Fennel Site
Jean-Marc Follini Members Observatory Night 03-17-01
Fred Garcia Members Observatory Night 03-17-01
John Garza III Site

April Supervisor Dana Lambert 281-933-4627
Clifton Goldman Site
David Granadino Site
Chai Heng Members Observatory Night 04-14-01
Gary Hlivko Site
Wayne Hutchinson Members Observatory Night 04-14-01
Clayton Jeter Site
Stanley Jones Site
Keith Jurgens Members Observatory Night 04-14-01

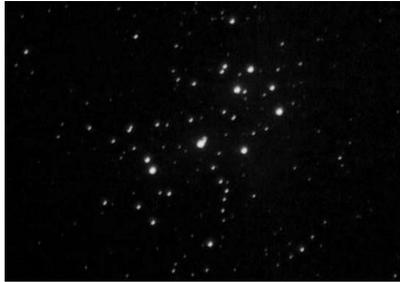
May Supervisor Cooper Walls 713-461-9590
Arnie Kaestner Site
David Kahlich Site
Howard Leverenz Members Observatory Night 05-12-01
Jay Levy Site
Mary Lockwood Members Observatory Night 05-12-01
David Herlinger Site
Robert Menius Site
Larry Mitchell Members Observatory Night 05-12-01

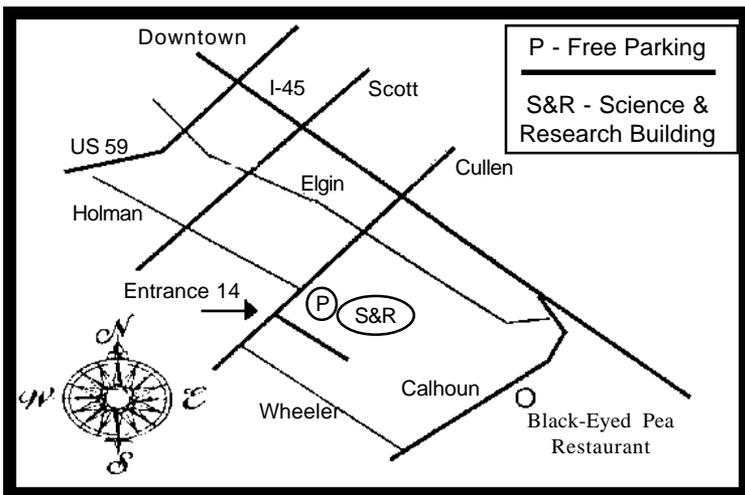
Please remember that Site work can be done anytime and does not have to be done just before Members Observatory Night. Contact your Site Supervisor for details. Names are selected for Site Duty using the current Alphabetical listing for Observatory Key Holders. If any member knows of a conflict please call me before your name is listed.

The Pleiades....

by Kent Fraiser

This represents his first attempt at astrophotography. To take this picture, he used an Olympus OM-1 with a 210mm Vivitar lens mounted on top of his 8 inch Meade LX-200. He guided with his illuminated eyepiece. The seven minute image was taken from his home in the Woodlands.





General Membership Meeting

The Houston Astronomical Society holds its regular monthly General Membership Meeting on the first Friday of each month, unless rescheduled due to a holiday. Meetings are in Room 117 of the Science and Research Building at the University of Houston. A Novice Presentation begins at 7:00 p.m.. The short business meeting and featured speaker are scheduled at 8:00 p.m. Also typically included are Committee Reports, Special Interest Group Reports, current activity announcements, hardware reviews, an astrophotography slide show by members and other items of interest.

Board of Directors Meeting

The Board of Directors Meeting is held on dates scheduled by the board at 7:00 p.m. in Room 106 of the Space Science Building at Rice University. Call StarLine for Board Meeting information. Information provided to GuideStar will be published. The meetings are open to all members of the Society in good standing. Attendance is encouraged.

GuideStar Information

The H.A.S. *GuideStar* is published monthly by the Houston Astronomical Society. All opinions expressed herein are those of the contributor and not necessarily of Houston Astronomical Society. The monthly Meeting Notice is included herein. *GuideStar* is sent via bulk rate mail to Regular, Student, and Honorary Members of H.A.S., selected individuals and recent visitors to the General Membership Meeting. Contributions to *GuideStar* by members are encouraged. Electronic submission is helpful. Submit the article in ASCII text, MS-Word (preferred), or WordPerfect format on an IBM format floppy or via AOL (BILLP10566). Mail copy to the address shown on the outside cover or to the editor at 256 East 5th Street, Houston, TX 77007. Copy must be received by the 15th of the month for inclusion in the issue to be mailed near the end of the same month. Or, bring copy to the General Membership Meeting and give it to the Editor, or phone to make special arrangements.

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AOL: BILLP10566; Internet: BILLP10566@AOL.COM

Reproduction: Mike & Judy Dye... Need help!! ... call the president to volunteer!!!

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Houston Astronomical Society

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