



May, 2000

At the May 12 meeting...

Note!!!! 2nd Friday to avoid conflict with TSP

Science Fair Projects

and

Texas Star Party Recap

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.

H.A.S. Web Page: <http://spacsun.rice.edu/~has>

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 (New!)

★★★★★ *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 ★★★★★★

President: Don Pearce

H: 713-432-0734

Vice Pres: Barbara Wilson

H: 281-933-1289

Secretary: Bill Leach

H: 713-863-8459

Treasurer: Gene Horr

H: 713-468-2157

★★★★★ Additional Board Members ★★★★★★

Liaison responsibility

Bill Flanagan 713-699-8819

Howard Leverenz 713-957-8667

Jay Levy 281-992-2708 Field Trip and Observing, Program

Debbie Moran 713-666-9428

Warren Wundt 713-697-2960

Mike Dye 281-498-1703 Observatory Director

★★★★★ Committee Chairpersons ★★★★★★

Audit Gary Hlivko 713-864-2541

Education Richard Nugent 713-910-5945

Field Tr./Obsg. Kenneth Drake 281-367-1592

Novice John Garza, III 409-441-1476

Observatory Michael Dye 281-498-1703

Program Margaret Nunez 713-529-2549

Publicity Mark Egan 281-265-1497

Telescope Darin Palmer 713-223-3123

Welcoming Bill Leach 713-863-8459

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

Historian Leland Dolan 713-529-0403

Librarian Peggy Gilchrist 281-558-1190

Logo Mds Sales Judy Dye 281-498-1703

Long Range Plan Barbara Wilson 281-933-1289

Parliamentarian Kirk Kendrick 281-391-3834

Publ. Star Party Marg Nunez 713-529-2549

Rice U. Coord. Matt Delevoryas 713-795-0808

Schedule Obs'v'ty Steve Goldberg 713-721-5077

Texas Star Pty Steve Goldberg 713-721-5077

★★★★★ 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

Associate \$5.00

Sustaining . \$50.00

Student \$5.00

Honorary None

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 welcomes the following new members:

John Martinez, George B. Smith, Rich Turissini, Brent Kane

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	281-367-1592
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

Please note that **the H.A.S meeting for May will be on the 12th**, which is not the first Friday of May (it's the second Friday, actually). This is to accommodate those of us who are going to the Texas Star Party. I'll be there, and I hope to see you there. Last year was outstanding... we had beautiful clear skies every night, the programs were great, and the vendors did a fine job. The only thing that would have made it better would have been if I won a door prize. I didn't, so maybe this year. I'll be working the registration desk sometime during TSP.

Part of getting ready for TSP is figuring out what you're going to observe. My most satisfying observing sessions have been those that I've planned in advance. I observe, among other things, variable stars from the AAVSO list. It does no good for me to try to observe a 15th mag star with my little telescope, so some time spent reviewing the expected brightness information that the AAVSO provides is time well spent.

I'm also spending some time checking out my equipment. I don't want to get out there and realize that I've forgotten to bring a critical component of my system. Yikes!!! I also want to make sure that all the stuff works and that I remember how to use the equipment effectively.

Last year I enjoyed doing the binocular object list that John Wagoner put together. He'll be challenging us with another list this year, and I look forward to the task. I usually end up saying, "I didn't know I could see *that* with my binoculars."

In this issue, Leland Dolan, a frequent contributor to the *GuideStar* discusses daylight savings time, shedding more light (no pun intended) on the thief of early darkness. Bill Leach provides us with the minutes of the April meeting, in case you missed it, like I did. (I had to miss the meeting to deal with a crisis at my job.)

..Bill

Houston Astronomical Society

***Meeting Notice
For Friday, May 12, 2000
the second Friday of May***

Science Fair Winners

Area student science fair winners will show off and explain their entries.

And...

TSP Recap. Re-live the TSP experience only 1 week after its end. See telescope builder winners and your observing friends in action.

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

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.**

May/June Calendar:



Date Time Event

May

3	11:13 p.m.	New Moon
7		Texas Star Party ends-Ft. Davis
10	3:01 p.m.	First Quarter Moon
12		HAS Club Meeting (on <i>second</i> Friday of May)
	7:00 p.m.	Novice Presentation - U of H
	8:00 p.m.	General Membership Meeting U of H
16	7:30 p.m.	Advanced SIG Mtg. Rice Univ., contact Bill Leach, 713-863-8459
18	2:34 a.m.	Full Moon
20		Members Observatory Night-Columbus
26	6:56 a.m.	Last Quarter Moon
27		Prime Night-Columbus

June

2	7:15 a.m.	New Moon
		HAS Club Meeting
	7:00 p.m.	Novice Presentation - U of H
	8:00 p.m.	General Membership Meeting U of H
3		Prime Night-Columbus
8	10:29 p.m.	First Quarter Moon
13	7:30 p.m.	Advanced SIG Mtg. Rice Univ., contact Bill Leach, 713-863-8459
16	5:27 p.m.	Full Moon
20	8:48 p.m.	Summer solstice-summer begins
24		Members Observatory Night-Columbus
	8:01 p.m.	Last Quarter Moon

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

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
2000 Observer's Handbooks (NEW!)	\$ 14.00

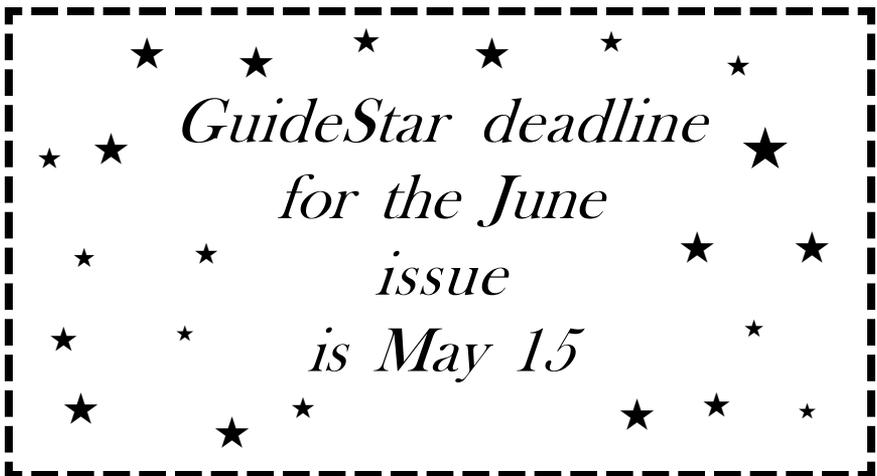
**The May meeting will
be on the second
Friday in May (the
12th) to avoid a
conflict with the
Texas Star Party. We
hope to see you there!**

Southern Skies Star Party

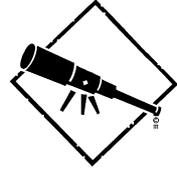
The fifth consecutive SSSP will be held this year on June 24 - July 1. We stay at resort lodgings in Bolivia at the shores of Lake Titicaca, and view the Southern hemisphere from an excellent observing site. Excursions to ruins of Tiwanaku, islands on the lake, city of La Paz, and extension trip available to Macchu Picchu. Cost is \$1,649, which includes two meals/day, lodgings, and airfare from Miami. For more information, contact Scott Mitchell (713) 461-3020 or at starscm@aol.com

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. ***Thanks!***



Observatory Corner



By Michael B. Dye Observatory Chairman

This is going to be a short article because (1) I don't have much to say and (2) I'm running out of time to write this article. The first of April we changed the Combination to the Observatory Site. This unfortunately was the second combination I had generated for the April 2000 Combination Change. The successful mailing would not have been possible if not for the diligent action of my wife Judy. She helped me stuff envelopes just before the February General meeting. When we ran out of time just before the meeting, Judy and Mary Lockwood continued to stuff envelopes while we were driving to the meeting in the Van. After the March General Meeting we thought everything was going to work out OK for the Combination Change until one of our members called and told me that his house had been broken in to and robbed. It seems that one of the items stolen was the new combination change envelope that he had just picked up at the March General Meeting. I got this information just before I was about to mail the Combination change to the membership that had not picked their envelopes. I could not take the chance that the robbers would not read the information in the envelope, realize what they had and take a trip out to the Observatory Site and try and break in. After all, included in the envelope were complete directions to the Observatory Site.



This meant that all the Combination Changes that I had given out at the February and March General Meetings were now compromised (an old military term that means that formally classified information was no longer classified). This necessitated the generation of a new Observatory Site Combination (easy) and distribution of it to the entire membership (not so easy). The weekend March that we (Judy, Warren Wundt, Molly Hunt and I) put the *GuideStar* together on Friday night, Judy worked the rest of the weekend putting together the new Combination Change. She had to open all the old envelopes, remove the papers, discard the pages we were changing, and put everything aside. I generated new cover letters and Judy went to Office Depot and made copies of the new combination information

Continued...

Observatory Corner... from previous page

and also got more envelopes that we were going to need to send the new combinations out. I was working on another project that needed to be completed that weekend and so Judy did most of the work herself. I generated the necessary labels and Judy put them on the envelopes after she stuffed all 303 envelopes with the new combination. We managed to get everything accomplished that weekend and we mailed the *GuideStar* on Monday and the Combination Change on Tuesday.

Again I want to thank my wife Judy for all the work she does on my part for the Houston Astronomical Society and the Observatory Committee.

If you have a Randalls card, and have not done so, please have it coded for the Houston Astronomical Society. Our number is #6618. The Society gets 1 percent of the gross sales that members spend at Randalls. Randalls totals up the amount spent each quarter and will send us a check if the amount goes over \$2,500.00, otherwise the total rolls over to the next quarter or zeros out at the end of the calendar year. So please link your Randalls card to the Houston Astronomical Society so that the society can benefit from this Randalls program. Our number is #6618. This is very easy to do, just go to the Courtesy Booth and tell the person there what you want to do. We are also in the process of getting a Kroger number that does the same thing for Kroger.

For the last few months, I have been inserting a paragraph requesting membership feedback concerning installing computers in the Observatory. I have actually got a response. This gives me hope that members are actually reading my articles. If you have any ideas about the Observatory Site, including providing some sort of computers for controlling the Observatory Telescopes and maybe for CCD processing. Please contact me at mbdye@aol.com or 281-498-1703.

**Please fill out the appropriate log form when you use the site.
Remember we use these forms as attendance records.**

Saving Daylight, ...or Stealing Starlight?

by Leland A. Dolan

Let me say that I strongly agree with Mr. Pellerin's comments (in the April issue of *GuideStar*) concerning Daylight Saving Time (DST). Regardless of how we set our clocks: to Central Standard Time, to Central Daylight Time (which is actually Eastern Standard Time), to Greenwich Mean Time, or even Mean Solar Time, it will not add one second to the number of hours of daylight for a given date.

But, we need to understand why the government invented this confusing system of timekeeping, in the first place. To my knowledge, the first time that the entire country went on DST was during the First World War. In the short interval between the two wars, most parts of the country returned to year-round Standard time and that continued until 1942, following US entry into World War II. I was reminded of this while using software to calculate the time of the maximum for an annular eclipse visible from Houston in April of 1940. My software automatically "assumed" that DST was in effect on that date for all years. Again, in 1942, the government instituted year-round Daylight time, known as "War Time". You see, electricity was important to the production of war *materiel*. In those days, when hardly anybody had air conditioning, and many homes didn't even have an electric refrigerator, home consumption of electricity was mainly for indoor lighting. Therefore, if people spent more of their waking hours during daylight, it would conserve electricity. DST was not as effective around Christmas time, especially at higher latitudes where daylight hours were often shorter than the workday. During June and July, a person could go to bed at sunset and arise at dawn.

In 1946, when the country returned to "normalcy", some states (especially in the Northeast, and along the Great Lakes) chose to adopt DST on a seasonal basis, same as most states do now. However, Texas and a lot of other states chose to return to year-round Standard Time.

Generally speaking, Texans did not like DST, but because business was no longer just "local", large corporations located in the Northeast found that

Continued...

Saving Daylight? ... from previous page

their branches in Texas were one hour behind them in winter, and two hours in summer, and that made for confusion. So, during the mid Sixties, the federal government established the Uniform Time Act, in which states would automatically go onto DST, unless they made “heroic” efforts to exempt themselves. One of the states that did exempt itself from DST was Arizona. This was not motivated so much by the large number of observatories there, but (rather) by the fact that when people in Phoenix and Tucson returned from work, they sure wished that “darn hot sun” would set, so they could sit on their patios. Unfortunately for Texas, most the media wanted Texas to go along with the rest of the country. But, I would suppose that papers in Amarillo, Midland, and Lubbock might have urged Texas to reject DST. Those of you attending the Texas Star Party will appreciate a West Texan’s viewpoint, while growing impatient for it to get dark.

While it is true that we astronomers, whether amateur or professional, make up only a miniscule part of this state’s population. Our only hope is that the present trends in government, allowing more power to the states, could make it easier to get us off of DST. We would have to convince others Texans, that like Arizonans, we don’t need that extra hour of hot summer sunshine. Let’s keep our fingers crossed.

Minutes of the General Meeting of the Houston Astronomical Society

April 7, 2000

Secretary's Draft

1. The meeting was called to order by President Don Pearce at 8:04 PM, he welcomed everyone and the following general announcements were made:
 - a. The general meetings of the membership are in this room, room 117, at 8:00 PM on the 1st Friday of the month, except for May and September when the meeting will be on the 2nd Friday of the month.
 - b. The novice meeting is across the hall in room 116 at 7:00 PM preceding the general meeting. During the May 12, 2000 meeting the Society will elect a new Novice Committee chairperson as posted in the May Guidestar.
 - c. The site orientation meeting is in room 121. All members must attend this meeting in order to obtain access to the 18-acre observing site in Columbus, Texas. You may visit the site as a guest of a qualified Society member prior to your certification.
1. There were 70 members and 6 guests present.
2. The following new members were introduced:
John Martinez, George B. Smith, Rich Turissini, Brent Kane
3. The following guests were recognized:
Jose Luis Chica, Carol C. Coats, John Linder, Roger Locke, Ed Locke, Michelle Samson
4. The President reviewed the types of telescopes available to the membership at the observing site: C-14, 12.5 in. f/5, 12.5 in. f/7, and two 12.5 in. Dobsonians.
5. Darin Palmer, chairperson of the Telescope Loaner Program, explained the procedures involved and telescope available.

Continued...

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6. The President announced the following membership benefits/concerns:
 - a. The *GuideStar* newsletter, whose editor is Bill Pellerin.
 - b. Discount prices for society members on *Sky & Telescope* (\$29.95) and *Astronomy* (\$29.00) magazines was announced.
 - c. The Starline (281-568-9340), a service offering various recorded astronomy messages, was also announced and Matt Delevoryas was recognized for keeping the messages updated.
 - d. The HAS website is also available and WebMaster Steve Goldberg was introduced and thanked. Steve announced that the H.A.S. new domain name **www.houstonastronomy.org** will soon be in effect.
 - e. Marg Nunez and Bill Leach of the welcoming committee were introduced.
 - f. The program with Randall's grocery stores was announced and members were asked to register for nonprofit organization number 6618. Don also announced that the Treasurer is investigating the use of the Kroger Card.
 - g. The next meeting in May will feature the H.A.S. Science Fair Award winners and Texas Star Party recaps from Society members that attended.
 - h. Mike Dye, Observatory Director, clarified the change in the observatory gate combination.
 - i. Bill Molinare gave a short recap on the March banquet and announced that Marg Nunez, Bill Leach and Judy Dye would be the new banquet committee for 2001. Molinare was thanked for all the work he has done over the years as banquet chairperson.
 - j. Leland Dolan, Society Historian, made several historical announcements.
1. Don Pearce introduced the speaker for the evening. The program for the evening was "Conjunction, Junction, What's My Function?" which was presented by James Wooten from the Baker Planetarium at the Houston Museum of Natural Science. This fascinating and informative program lasted for 35 minutes. Wooten explained that the order of the classical solar system bodies in the geocentric model

Continued...

Minutes... from previous page

were based on how fast they appeared to move through the constellations. The ancient Chinese introduced five natural elements; metal, wood, earth, fire and water, one for each of the planets. He explained that classical grand planetary alignments are based on the 20-year alignment cycle of Jupiter and Saturn. He went on to describe various planetary alignments in the past and future including the so-called Millennium Planetary Alignment on May 5, 2000.

2. Marg Nunez presented the speaker with an H.A.S. Certificate of Recognition.
3. Matt Delevoryas gave an informative presentation on unusually long comet tail observations.
4. Steve Goldberg made an announcement relative to the Texas Department of Transportation's plan to build the southwestern loop of the grand parkway right next to the George Observatory at Brazos Bend State Park. He solicited help in fighting this major source of light pollution and encouraged members to visit the H.A.S. website and link to the website of the Fort Bend Astronomy Club and sign their petition and get information as to letter writing.
5. Marg Nunez and Bill Leach handed out the door prizes.
6. Those planning on attending the Texas Star Party were recognized.
7. President Don Pearce asked for donations for refreshments and all were invited to stay after the meeting for refreshments. The meeting was adjourned at 9:20 PM.

HAS Secretary: William W. Leach
April 7, 2000

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

HAS Web Page

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

The address is: <http://spacsun.rice.edu/~has>

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 me, Steve Goldberg (WebMaster), at 713-721-5077.

Observatory Duty Roster

by Michael B. Dye, *Observatory Chairman*

This is the duty list for May, June and July. Some names were 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.

May Supervisor Logan Rimes 713-681-5397

Keith Jurgens	Site	
Arnie Kaestner	Site	
David Kalich	Site	
Howard Leverenz.....	Site	
Jay Levy	Members	Observatory Night 05-20-00
Mary Lockwood	Members	Observatory Night 05-20-00
Christopher Mendell	Site	

June Supervisor Allen Gilchrist 281-558-1190

David Herlinger	Site	
Robert Menius	Site	
Jeff Moore	Members	Observatory Night 06-24-00
Debbie Moran	Site	
Ben Negy, Jr.	Members	Observatory Night 06-24-00
Johnny Norris	Members	Observatory Night 06-24-00
Marge Nunez	Site	
Ralph Overturf	Site	

July Supervisor Dana Lambert 281-933-4627

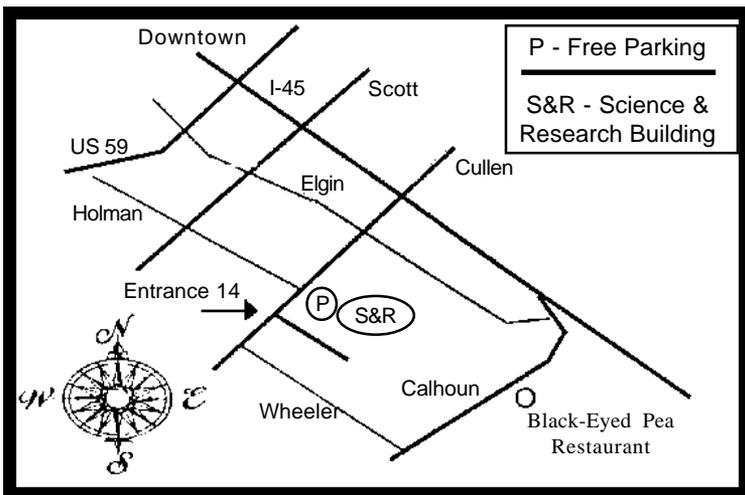
Don C. Pearce	Members	Observatory Night 07-01-00
Michael D. Peters	Site	
Sim Picheloup	Members	Observatory Night 07-01-00
Edward H. Preston	Site	
Leonard W. Raif	Members	Observatory Night 07-01-00
Glenn L. Ray	Site	
Henry Schneider	Site	
Steve Simpson	Site	

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.

Special "Help" Volunteers

Any member who wants specific information on a subject listed below may call the individual listed. If you have a moderate knowledge of a special subject and would be happy to have others ask you about that subject, let the editor know and your subject, name and phone will be listed in *GuideStar* in the future. Note that we have listed a few possible areas where you might volunteer, but, of course, you are not limited to these. You can also have a specialty which is a sub-group of another. Note that the number of names for any subject is not limited to only one person. Also see the "Ad Hoc Committee Chairpersons" on the inside front cover and the "Special Interest Groups Listing" article.

<u>Subject</u>	<u>Name</u>	<u>Phone</u>
Asteroids	Barbara Wilson	281-933-1289
Astrometry	Richard Nugent	713-910-5945
Astrophotography	Steve Goldberg	713-721-5077
Beginning in Astronomy	Peggy Gilchrist	281-558-1190
	Amelia Goldberg	713-721-5077
Comets	Kenneth Drake	281-367-1592
	Don Pearce	713-432-0734
Computers	Matt Delevoryas	713-795-0808
	Leland Dolan	713-529-0403
	Ricardo Palmeira	713-669-1409
Cosmology	Ricardo Palmeira	713-669-1409
Deep Sky	Larry Mitchell	281-448-8700
	Barbara Wilson	281-933-1289
Double Stars	John Blubaugh	713-921-4275
Drawing (Sketching)	Scott Mitchell	713-461-3020
Herschel Objects	Larry Mitchell	281-448-8700
History, Astro'y - General	Leland Dolan	713-529-0403
	Ricardo Palmeira	713-669-1409
History, Astro'y - Amateurs	Tom Williams	713-526-2868
Mathematics, Astronomical	Richard Nugent	713-910-5945
Messier Objects	Novice Committee (see inside front cover)	
Photometry	Tom Arnold	281-495-0142
Radio Telescopes	John Hiatt	713-464-4010
Satellites, Artificial	<open>	
Solar Observing	Larry Mitchell	281-448-8700
Spectroscopy	Tom Arnold	281-495-0142
Thin Crescent Moons	Don Pearce	713-432-0734
Variable Stars	Barbara Wilson	281-933-1289
	Tom Williams	713-526-2868
Video	Larry Mitchell	281-448-8700



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.

Editing & Production: Bill Pellerin, 713-880-8061; FAX: 713-880-8850;

AOL: BILLP10566; Internet: BILLP10566@AOL.COM

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

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