



June, 1999

At the June 4 meeting...

TSP Roundup

If you missed the Texas Star Party, you can see what you missed at this 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.

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: 409-732-8967

★★★★★ **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 and past president** ★★★★★★★★★★

President: Don Pearce H: 713-432-0734	Treasurer: Bill Flanagan H: (713) 699-8819
Vice Pres: Kirk Kendrick H: 281-391-3834	Past-President: Allen Gilchrist H: 281-558-1190
Secretary: Matt Delevoryas H: 713-795-0808	

★★★★★★★★★ **Additional Board Members** ★★★★★★★★★★

Jay Levy 281-992-2708	Liaison responsibility
Bill Leach 713-863-8335	Field Trip and Observing, Program
Bill Molinare 713-664-3261	Observatory, Welcoming
Bill Pellerin 713-880-8061	Education, Telescope
Barbara Wilson 281-933-1289	Audit, Publicity (shared)
Mike Dye 281-498-1703	Novice, Publicity (shared)
	Observatory Director

★★★★★★★★★ **Committee Chairpersons** ★★★★★★★★★★

Audit Orv Wiens 281-391-2995	Program Scott Mitchell 713-461-3020
Education Bill Leach 713-863-8335	Publicity Michael Cubstead 713-307-0270
Field Tr./Obsg. Kenneth Drake 281-367-1592	Telescope Clayton Jeter 281-383-1337
Novice Sancho/Spore 281-379-4726	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't'y Steve Goldberg 713-721-5077
Long Range Plan Don Pearce 713-432-0734	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.

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

The President's Message



As a member of HAS for 15 years, and having received my observatory “training” 15 years ago, it occurred to me as I arrived at the site last Saturday night (May 15) with Chris Mendell and John Blubaugh, that I had not actually used the observatory in a long time (I almost always bring my own telescopes).

My recollection of that training, which lasted several hours, didn't match the simplicity with which the observatory committee has incorporated, over the years, in making the observatory user friendly. After fumbling around a few minutes, and with some assistance from a helpful member, we were observing Mars through the F-7. Kudos to the Observatory Committee for streamlining the utilization of our observatory and telescopes.

Mars was simply stunning, especially with a 8mm Clave and a #25A filter (red). Although that particular eyepiece only gives 275 power (a little low for Mars), the Sinus Sabaeus-Sinus Meridiani “wrench”, Mare Acidalium, and the North Polar Cap were as clearly delineated as I have ever seen them. Unfortunately, by 11:30 clouds rolled in and the observing session was over. I am looking forward to the opposition in 2003 when the apparent diameter of Mars will be 66% larger than at this opposition (25 arc seconds).

This month, at the June meeting, we will recap the Texas Star Party, see you there.

Clear skies and le croissant lunaire

Don Pearce

Houston Astronomical Society

***Meeting Notice
For Friday, June 4, 1999***

TSP Roundup

The 1999 TSP was outstanding. Re-live your experience, or see what you missed at this month's meeting.

Also, there will be a presentation by Ed Flaspoebler, editor of the Astronomical League "Reflector" publication.

TSP recap. Anybody who has slides to show or a story to tell, should get in touch with Scott Mitchell (see inside front cover or email STARSCM@aol.com). Scott will be organizing the presentations.

Schedule of meeting activities:

Novice meeting: 7:00 p.m.

Jose Sancho and Susan Spore began a new year of novice programs in January. This year the Novice committee will work with you to complete the Messier list. Please bring your Messier (and any other) observation records with you to the June meeting.

Site orientation meeting: 7:00 p.m.

General meeting: 8:00 p.m.

See the inside back cover for more information.

June/July Calendar:



<i>Date</i>	<i>Time</i>	<i>Event</i>
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June

4		HAS Club Meeting
	7:00 p.m.	Novice Presentation - U of H
	8:00 p.m.	General Membership Meeting - U of H
5		Members Observatory Night-Columbus
7	11:20 p.m.	Moon at Third Quarter
12		Prime Night-Columbus
13	2:03 p.m.	New Moon
15	7:30 p.m.	Advanced SIG Mtg.(note new time, see May GS, p.9), Rice Univ., contact Bill Flanagan, 713-699-8819
20	1:11 p.m.	First Quarter Moon
21	2:50 p.m.	Summer Solstice-summer begins
28	4:37 p.m.	Full Moon

July

2		HAS Club Meeting
	7:00 p.m.	Novice Presentation - U of H
	8:00 p.m.	General Membership Meeting - U of H
3		Members Observatory Night-Columbus
6	6:57 a.m.	Moon at Third Quarter
10		Prime Night-Columbus
12	9:24 p.m.	New Moon
13	7:30 p.m.	Advanced SIG Mtg. Rice Univ., contact Bill Flanagan, 713-699-8819
15	evening	Moon, Venus, and Regulus conjunction at sunset
20	3:59 a.m.	First Quarter Moon
28	5:22 a.m.	Lunar eclipse-partial, umbral phase begins
	6:25 a.m.	Full Moon
	6:34 a.m.	Mid eclipse (see January GS, P.7)
	6:40 a.m.	Moonset

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

Texas Star Party 1999

By Bill Pellerin, GuideStar Editor

The TSP '99 was, in a word, outstanding. We had 7 clear nights (ok... a few clouds, but not many, did appear during the week), enjoyed excellent speakers, were able to expand our astronomy-stuff collection from the vendors, and (once again) went away empty-handed in the prize patrol. (John Pierce, a HAS member, won a copy of MegaStar and a Nagler Prism eyepiece – at his first TSP.)

Ok. Here are the details...

Legislation – We were keeping our eye on the Texas legislature during the week to keep up with the progress of HB 916 which specifies that lighting installed by the state of Texas must be fully shielded. TSP participants were urged to call their elected representative and recommend that he/she support this bill. In any case, the legislation passed from the House to the Senate and awaits action there. (See the latest in this issue of the *GuideStar*. And, check the HAS web page for current news. At TSP, there was a presentation by a panel (Bob Gent, Bill Wren, Jim Walker, and Louis Binder) on the current state of efforts to deal with light pollution.

Observing – The real reason for being at TSP is to observe under the dark west Texas skies. In general, the observing was outstanding. Transparency was good and a lot of objects that would be invisible under worse skies popped right out. The seeing, however, could have been better. There were occasional times of good seeing, but for the most part the seeing was only fair. The temperature swings between night and day were substantial. It was in the 80's during the day and (perhaps) in the 40's at night (I didn't measure the temperature, but I was wearing two jackets and a head cover at some times.)

Trip to McDonald Observatory – I did the Tuesday technical presentation trip to McDonald. I had not seen the Hobby-Eberly telescope and this was my opportunity. Unfortunately, the mirrors were facing away

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from the visitor's window, so I didn't get to see the 'business end' of the telescope until I made another trip up the mountain later in the week. The tour guide did an excellent job taking us through the three domes and reviewing the construction and purpose of the Hobby-Eberly telescope.

Telephone service – is very limited from the Prude Ranch. This is unfortunate since many of us count on the internet and email to get information and to communicate with the outside world. In addition, cell phone service is not available from the ranch. I was able to use my cell phone from the top of the McDonald Observatory, but even then communications was iffy.

Prude Ranch accommodations – were very good. The staff did an excellent job cleaning the room and we were kept supplied with towels and soap. The rooms had been set up with foil-backed paper covering the windows, which made the rooms seem cave-like during the day, but we worked around that by keeping the front door open to let some sunlight in.

Prude Food – I'm sorry to say that the food at the ranch has room for improvement. There were a few high spots (chicken fajitas, for example), but in general the food left a lot to be desired. The good news... it's on-site, convenient, and efficiently served. If you're not a beef eater, however, you'd go hungry at the Prude. The meals are very beef-centric and some of the vegetable combinations can be odd (one day we had scalloped potatoes and sweet potatoes in the same meal).

Speakers – Outstanding.

Barbara Wilson, of HAS coordinated the evening speakers.

Steven O'Mera of *Sky and Telescope* gave a moving remembrance of Walter Scott Houston (Scotty Houston, as he was known). Scotty Houston was a write for *Sky and Telescope* for many years and an avid observer. Even though I never knew Mr. Houston (except from his

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articles), I thought that Steven's remembrance brought him to life for me. It was clear that Steven loved Scotty and misses him terribly.

David Levy talked about two of his heroes Leslie Peltier (author of *Starlight Nights*) and Gene Shoemaker. Peltier's book, *Starlight Nights* is, in Levy's estimation the best astronomy book ever written. We can look forward to the book being re-issued early in 2000 in remembrance of Mr. Peltier. Gene Shoemaker was a geologist who was long involved in planetary 'geology' and who, except for health reasons, might have gone to the moon. It was he, and his wife Carolyn who discovered Comet Shoemaker-Levy 9 with David Levy. The comet is famous, of course, for having crashed into Jupiter.

Brent Archinal, who works in Washington D.C. at the Naval Observatory gave two presentations. One was an update to a presentation he had given to the HAS on work being done to measure positions accurately on the earth based on star locations. His other presentation was on some work he's doing to document star clusters of various types. He mentioned that this is work that amateurs can participate in; so any advanced amateurs in the HAS who are suitably equipped could participate. He also let it be known (I had not heard this before) that the sun has been determined to be a member of a star cluster and listed the members of that cluster. All these stars are moving through space at the same speed and in the same direction, and the member stars all have the same age.

Ray Villard presented "HST the Story Behind the Pictures" on Saturday night. His presentation was a fine review of the history of the Hubble and provided insight into the current work being done. He showed us some (at the time) unreleased Hubble photos. These pictures were outstanding and were enjoyed by the large crowd in attendance.

Prizes – an outstanding set of prizes were accumulated by Jayne Lambert. The list of items included copies of various software packages (including Megastar, by HAS member Emil Bonanno), books, cash

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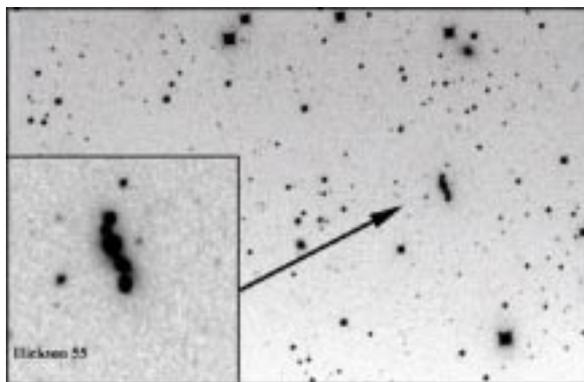
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(always useful), photos (from the winner of the astrophotography contest), a 8" Dobsonian telescope, a 2" 30mm TeleVue eyepiece, a portable dome, and many more. Jayne did a fine job getting these prizes for the event.

Observing pins – Many, many observers at TSP acquired pins for their efforts. Something over 200 observers got pins (from John Wagoner) for the binocular observing list, the southern skies list, or the planetary nebula list. I got the binocular list, which was easy and fun, but there was some significant grumbling (ask Amelia Goldberg) about the planetary list. Those who tried this list found it to be a bit challenging. John Wagoner was presented with a 'Wanted' poster near the end of TSP by those who were 'grateful' for the challenge he provided.

Awards - As is mentioned on the HAS Web page, HAS member Barbara Wilson got the Web Society award and Amelia Goldberg got the Lone Stargazer award at this year's TSP. Several Messier awards were handed out during the evening presentations as well.

Observing event - Larry Mitchell, Brent Archinal, and others (David Levy?) observed a cluster of galaxies called Hickson 55 visually with Larry's 36" Dob. Archinal saw another object in the field (not visible on the charts). Mark Williams imaged Hickson 55 the next night with his 18" NGT, but no object was found



Hickson 55 from TSP
by Mark Williams
<http://freeweb.pdq.net/williams/>

Continued...

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in the position observed the night before. (It would have been fun to have someone find a comet at TSP, huh?)

Vendors - The vendor displays were filled with exciting stuff. I won't try to list them all, (because I'd leave somebody out), but the authors (George Robert Kepple and Glen W. Sanner) of a fine pair of observing guides were there. The books are called *The Night Sky Observer's Guide*, and there's a spring-summer book and a fall-winter book. The books do a constellation-by-constellation list of the objects in the night sky and include finder charts, drawings, observations with various instruments, photographs, and more. A significant list of double and variable stars in each constellation is included as well. If you haven't seen these books, you need to. They sold like hotcakes at the TSP.

Credits - Amelia and Steve Goldberg seemed to be working constantly on TSP coordination and they deserve a lot of credit for their efforts. TSP was a big success largely due to their efforts. Everybody else who worked to make TSP the event that it was deserves credit as well. Thanks!



M64, the Black Eye Galaxy
By Mark Williams
Taken at TSP 99

Advanced Special Interest Group

By Matt Delevoryas

The presentation for the May monthly Advanced SIG meeting will be by Matt Delevoryas, on “The Science of Conventional Photographic Imaging.” While it is all the rage to speak of the quantum efficiency of the latest CCD chip, or selecting the perfect linear scaling for a digital image, the speaker actually remembers the old days when conventional photography was the only realistic alternative. The presentation will not be about what the listener should do to produce good astrophotographs, but rather will be aimed at the “armchair astrophotographer,” discussing the technical details of conventional photography from the viewpoint of a world now more familiar with the paradigms of electronic imaging and digital image processing. No previous background is necessary, and in particular attendance at April’s presentation of the first part of an extended seminar on digital image processing is not a prerequisite.

This month’s meeting is 7:30 on June 15th. The SIG meetings (and those of all other HAS activities at Rice) are held on the Rice University campus, in room 106 of the Space Science building, accessible from Rice entrance 13 on Rice Boulevard. The program is presented between 7:30 to 8:30, followed by any business and communications, adjournment, and normally a free- for-all astronomical discussion. If you wish any further information on the SIG, call Bill Flanagan, Chairman, at 713- 699-8819.

Note that June is the month for the annual election of Advanced SIG officers, and all who want a say in the future direction of the SIG are encouraged to attend and vote their minds.

Comet P/1998 U3 Jäger

By Matt Delevoryas

Following is an ephemeris for Comet P/1998 U3 Jäger, picking up where the ephemeris in the last *GuideStar* left off, brought to you by the folks at Starline, with information provided by the IAU Circulars Committee. During the ephemeris, it is a low and descending west evening object moving from Cancer to Hydra on the 11th. The elements are from MPC 33650, and the magnitude follows IAU Circular 7040. For elements, contact the Committee. For additional ephemerides, please contact Kenneth Drake, the Chairman of the HAS Comet SIG. The columns C-E and C-S give the comet-Earth and comet-Sun distances in a.u., and each line is for 0^h UTC.

Date	Julian	J2000.0			B1950.0			Mag	C-E	C-S
		RA	Dec		RA	Dec				
mmm dd	Date	h	m	deg mi	h	m	deg mi			
Jun 1	2451330.5	8	46.4	+08 29	8	43.8	+08 40	12.1	2.56	2.27
Jun 11	2451340.5	9	04.5	+06 37	9	01.8	+06 49	12.3	2.69	2.31
Jun 21	2451350.5	9	22.5	+04 43	9	19.8	+04 56	12.4	2.81	2.34
Jul 1	2451360.5	9	40.4	+02 45	9	37.8	+02 59	12.6	2.93	2.38



Comet C/1998 M5 LINEAR

By Matt Delevoryas

Following is an ephemeris for Comet C/1998 M5 LINEAR, picking up where the ephemeris in the last *GuideStar* left off, brought to you by the folks at Starline, with information provided by the IAU Circulars Committee. During the ephemeris, it moves from being a west-northwest evening object to a lower and fainter west-northwest evening object, in Cancer, entering Leo on the 22nd. The elements are from MPC 34126, and the magnitude follows MPC 32356. For elements, contact the Committee. For additional ephemerides, please contact Kenneth Drake, the Chairman of the HAS Comet SIG. The columns C-E and C-S give the comet-Earth and comet-Sun distances in a.u., and each line is for 0^h UTC.

Date	Julian	J2000.0			B1950.0			Mag	C-E	C-S
		RA	Dec		RA	Dec				
mm dd	Date	h m	deg mi	deg mi	h m	deg mi	deg mi			
Jun 1	2451330.5	9 02.0	+31 55	8 58.9	+32 07	11.9	2.71	2.37		
Jun 6	2451335.5	9 06.7	+29 53	9 03.7	+30 05	12.1	2.82	2.41		
Jun 11	2451340.5	9 11.3	+27 58	9 08.4	+28 10	12.2	2.93	2.45		
Jun 16	2451345.5	9 16.0	+26 09	9 13.1	+26 21	12.4	3.03	2.49		
Jun 21	2451350.5	9 20.6	+24 26	9 17.7	+24 38	12.5	3.13	2.54		
Jun 26	2451355.5	9 25.2	+22 48	9 22.3	+23 01	12.7	3.23	2.58		
Jul 1	2451360.5	9 29.7	+21 14	9 26.9	+21 27	12.8	3.32	2.62		

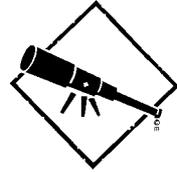
HAS Logo Sales

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

Observatory Corner



By Michael B. Dye Observatory Chairman



The Observatory Site played host to Boy Scout troop 466 of Pearland the Full Moon Weekend of April 30th to May 2nd. There were six boys and four adults who managed to get some observing in Friday night before the sky clouded up and absolute no observing on Saturday night. At least it didn't rain. The boys did some site cleanup and the adults added some more construction to the new Bar-B-Q grill pad. To wit, the poles that we will use to hold the roof up. The adults were Dave and Cathy Ramsey, Mannie and Jan Steglich and the boys were Tan Nug, James Steele, Trey Ramsey, Allan Douglas, Eric Jamarron and Ryan Steglich. The host was Robert Rogers and his son Allen. I want to personally thank the Boy Scouts for all the work they have done at the Observatory Site. I would also like to thank Bob Rogers for arranging for them to come out to the Observatory Site to observe and help with Site maintenance.

On the subject of Site Maintenance, I would also like to thank George Reeder who moved what was left of the pile of dirt in front of the Pump house and used it (the dirt) to fill in some of the mud holes that were the path from the pump house east side to the lawn mower shed. George also spends time mowing the grass around the pads and Camping area each month. Thank you George for your work.

Tuesday morning (May 11th) at 6:30 am (not a good time for phone calls), Allen Gilchrist called me from the Observatory Site to tell me that the windstorm of the past weekend had knocked a large tree down across the Exit road. Allen was at the Site to pickup his RV to go to TSP, which it seems is where every one else was. I was scheduled to go to Baltimore (for work) that Thursday and not return till the next Thursday. I promptly sent an E-mail message to all Observatory Committee members who have E-mail explaining the problem and to assist Kirk Kendrick (who I asked to spearhead the effort) in removing the tree from the road.

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Observatory Corner... from previous page

Kirk tried calling some members and was without any luck as some activity called TSP had soaked up all the available manpower for the week. Kirk when to the Observatory Site Saturday morning (May 15th) and found not one down tree but three. It seems that when the big tree fell, it took two smaller ones with it. Kirk and his chain saw worked for some hours to clean up as much as he could, intending to come back Sunday Morning to finish the job. Imagine his surprise when he got back Sunday morning and the job was complete. It seems that no sooner had left to go home than Logan Rimes showed up (as Site Supervisor of the Month) with, Keith Jurgens and another unknown (by Logan) camper. and finished cutting and stacking the wood. My thanks to all those members who helped with this problem.

The Houston Astronomical Society got the quarterly statement from Randalls this last month. This one is for the first quarter of this year (Jan 1 through March 31). Members spent \$1,993.99 at Randalls and because this amount was not over \$2,500.00, we (the HAS) did not receive any money. The good news is that this amount will roll over into the next quarter to see if we can get over \$2,500.00 in sales at Randalls in the next quarter. Please link your Randalls card to the Houston Astronomical Society so that the society can benefit from the 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 what to do.

Please by HAS Logo merchandise and help me get my den back.

Please fill out the appropriate log form when you use the site.

Prime Night for June is the 12th.

Members Observatory Night for June is the 5th.

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>

Northside Astronomical Society meets at 8:00 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.

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 June, July and August. 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.

June supervisor Matt Delevoryas 713 795-0808

David Kahlich Site
Bill Krell Site
Jay Levy Site
Mary Lockwood Members Observatory Night 06-05-99
Robert C. Menius Site
Larry Mitchell Members Observatory Night 06-05-99
John J Mitscherling Members Observatory Night 06-05-99
Jeff Moore Site

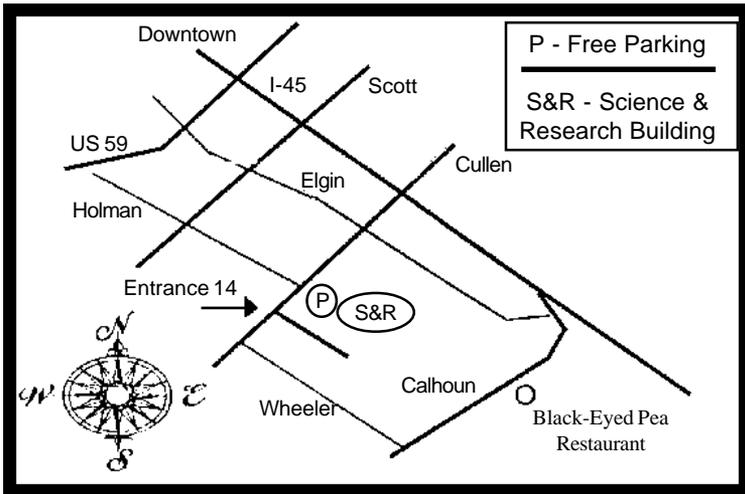
July supervisor Matt Delevoryas 713 795-0808

Debbie Moran Site
Ben Negy, Jr. Members Observatory Night 07-03-99
Johnny Norris Members Observatory Night 07-03-99
Richard Nugent Members Observatory Night 07-03-99
Ralph Overturf, Jr. Site
Don C. Pearce Site
Michael D. Peters Site
Sim Picheloup Site

August supervisor Dana Lambert 281 399-4627

Leonard W. Raif Site
Glen L. Ray Members Observatory Night 08-14-99
Mike Renolds Members Observatory Night 08-14-99
Henry Schneider Site
Carl Sexton Site
Steve Simpson Site
Larry C. Wadle Site
Mark R. Watson Site Members Observatory Night 08-14-99

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.



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 second Friday 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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