



**June, 2000**

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*At the June 2 meeting...*

**Alan Ma Wong**

Geophysicist

***The Marquez structure -  
a meteor crater north of Houston***

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***Houston Astronomical Society***

***GuideStar***

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**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	Secretary: Bill Leach H: 713-863-8459
Vice Pres: Barbara Wilson H: 281-933-1289	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	Program ..... Margaret Nunez ..... 713-529-2549
Education ..... Richard Nugent ..... 713-910-5945	Publicity ..... Mark Egan ..... 281-265-1497
Field Tr./Obsg. .... Kenneth Drake ..... 281-367-1592	Telescope ..... Darin Palmer ..... 713-223-3123
Novice ..... Kirk Kendrick ..... 281-391-3834	Welcoming ..... Bill Leach ..... 713-863-8459
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 ..... Barbara Wilson ..... 281-933-1289	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.
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## ★★★★★ 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.

## Table of Contents

4	Observations of the Editor	12	July-September Occultations
5	Meeting notice	13	Minutes of the May Meeting
6	June/July Calendar	15	Get it Right!
7	HAS Logo Sales	16	Other Meetings
8	Southern Skies Star Party Membership Renewals		H.A.S. Web Page
9	Observatory Corner	17	Observatory Duty Roster
11	Want Ads Star Party for Kids	18	Special Help Volunteers

**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 .....	281-367-1592
Lunar & Planetary .....	John Blubaugh .....	713-921-4275
Occultations & Grazes ...	Wayne Hutchison .....	713-827-0828
Advanced .....	Bill Leach .....	713-863-8459

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## *Observations... of the editor*

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**by Bill Pellerin, GuideStar Editor**

It seems that I just got back from the Texas Star Party at the Prude Ranch near Fort Davis, Texas. Wow... it was great. There were very many HAS members there and many HAS members working on making sure the event went well for the participants. Amelia and Steve Goldberg were keeping the registration process under control, Jayne Lambert was coordinating the vendors (and hitting them up for door prizes), Barbara Wilson worked on getting the (excellent) speakers that we had for the event.

Members of the Fort Bend Club (many of whom are HAS members) did a lot of work preparing the site for 'lights-out' and deploying all the power cords that were necessary to run the hordes of telescopes that were in use.

Our society was well represented at the event, but there were also observers from the UK, from Germany, and at least one observer from Australia. It's fair to say that people come from all over the world to attend the Texas Star Party. (I was surprised to find out that a participant who lives in Santa Fe, NM is closer to TSP than I am.)

Our member Mark Williams won the prize for the best CCD image (of the flame nebula in Orion). I won a door prize; a year's subscription to *Astronomy* magazine.

The observing was outstanding. Of the 7 nights that I was there 4 of them were excellent, one was hazy (high clouds), one was cloudy, and one was windy. But the clear nights... wow!!! As the night grew late the Milky Way would come up in the east looking like a band of bright clouds crossing the horizon. One night, late, after I had observed what I wanted to, I simply leaned back in my chair to view the Milky Way arching overhead. It was gorgeous!!!

I also got a good look at an Iridium (satellite) flare. Some enterprising TSP participant had predicted the flares, and this one happened right on time. Geez, this thing is bright!

John Wagoner was there to provide awards for various observing programs including the Glorious Globulars, the planetaries (from last year) and the southern sky list (from 2 years ago). Larry Mitchell created a Rings over the TSP

*Continued on Page 7...*

# ***Houston Astronomical Society***

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***Meeting Notice  
For Friday, June 2, 2000***

## ***Alan Ma Wong***

**Investigating the size and shape of the buried Marquez Dome impact crater, Leon Co., Texas, using petroleum exploration techniques**

Alan worked on the Marquez Dome project while he was a graduate student at the University of Houston under the direction of Dr. Arch Reid. Alan's research involved determining the subsurface geometry of the crater. He received his MS in Geophysics in 1994 and works for Petroleum Geo-Services as a Senior Consulting Geophysicist in the area of exploration data management

### **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.**

# June/July Calendar:



<i>Date</i>	<i>Time</i>	<i>Event</i>
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## 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, featuring geophysicist Alan Ma Wong on his research with the Marquez crater in Leon County, TX.
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

## July

1	2:20 p.m.	New Moon
		Members Observatory Night-Columbus
7		HAS Club Meeting
	7:00 p.m.	Novice Presentation - U of H
	8:00 p.m.	General Membership Meeting U of H
8	7:53 a.m.	First Quarter Moon
16	8:56 a.m.	Full Moon
18	7:30 p.m.	Advanced SIG Mtg. Rice Univ., contact Bill Leach, 713-863-8459
24	6:03 a.m.	Last Quarter Moon
29		Prime Night-Columbus
30	9:25 p.m.	New Moon

*Send calendar events to [JBlubaugh@aol.com](mailto:JBlubaugh@aol.com)  
or call 713-921-4275.*

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# *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
<b>2000 Observer's Handbooks (NEW!) .....</b>	<b>\$ 14.00</b>

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## *Observations... from page 4*

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list of objects. I completed the Glorious Globulars with my 2.8" telescope, but didn't even try to do the planetaries or the 'Rings'. Larry Mitchell thought that a 12" or larger telescope would be required to see the 'Rings', but our own Matt Delevoryas proved him wrong, and took the prize for having seen (at least) 25 of the 32 objects in a 8" telescope. Mark Williams imaged most of the objects with his NGT-18 and SBIG camera. Larry did a fine presentation on these objects during the day and got everybody excited about the prospect of viewing them.

The vendor area was well stocked and busy. There were telescopes, accessories, books, and other things on sale at the Star Party. Al Nagler was there showing of a Model 102 telescope -- a 4" scope with a longer focal length than his 101 model. This telescope does not replace the 101, but provides a suitable instrument for someone wishing to have these characteristics. There was an active swap-meet as well, with TSP participants eagerly exchanging stuff for stuff and cash for stuff.

I hope you were there... I didn't get to visit with everybody that was at the Star Party, so if you have something you want to share with the membership about your experiences, send it to me and I'll put it in the July issue.

*..Bill*

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## ***Southern Skies Star Party***

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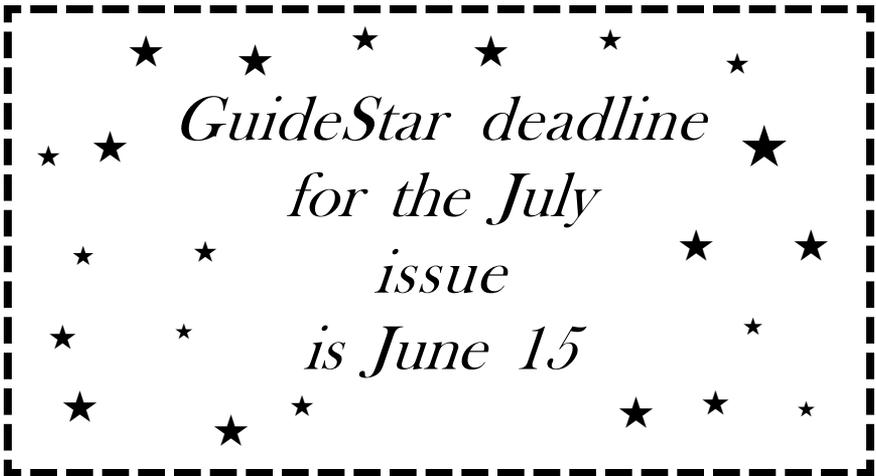
The fifth consecutive SSSP will be held this year on June 24 - July 1. We stay at resort lodgings in Bolivia at the shores of Lake Titicaca, and view the Southern hemisphere from an excellent observing site. Excursions to ruins of Tiwanaku, islands on the lake, city of La Paz, and extension trip available 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](mailto:starscm@aol.com)

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## ***Membership Renewals...***

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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!***



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# *Observatory Corner*

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*By Michael B. Dye Observatory Chairman*

On Saturday May 20<sup>th</sup> six people braved the elements to help work on the Observatory Roof. I am happy to announce we were almost successful. Bob Rogers and I went out to the Observatory Site on Friday night. We just beat the rain. About 9 PM it started raining and never really stopped until Saturday afternoon about 5 PM. The majority of the rain fell during the night. The rest of the time it just misted. Anyway John Hiatt, Jack Hefner, (a friend of John's), Ed Preston and Matt Delevoryas showed up during the morning and we started replacing the cable that is used to move the Observatory Roof. We were replacing this cable because after some 15 or 20 years of use, the cable was starting to show some wear. In this case some of the strands were breaking and some of the exposed cable was rusting. As members started showing up we started to replace the cable with a new spool of 250 feet of 3/16-inch stainless steel cable. We worked for about two and a half-hours pulling all 250 feet and we discovered two things. Number one was that we were about 50 feet short. The second item was now we knew why there was a splice in the cable over on the West wall. We were not the first to discover that 250 feet was not enough. After some discussion we decided to use the part of the cable that still looked good and use the new cable to replace the bad (rusted and frayed) section of the cable. We used the preexisting splice as our dividing point. This took about another hour and half to accomplish.



Then came the moment of Truth. We opened the roof using the newly installed cable. The roof still didn't work correctly. At this point Jack pointed out that it sounded like some of our rollers were dry (no oil). About another hour of activity consisting of jacking up the roof at each roller (a total of 12 points) the rest of us came to the same conclusion. The decision was made to do the following.

1. Order a totally new set of rollers for both the East and West walls. (My job)

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## ***Observatory Corner... from previous page***

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2. Schedule another work weekend day to install them. (Also my job)
3. On the same day, install the replacement Power Variac which we have had stored in the Observatory for the last ten months.

I have made a safety decision to keep the Observatory Closed until the repairs indicated above can be accomplished.

During part of the time while John, Jack, Ed and Bob were working on the roof Matt was replacing the Toilet bowl and tank in the East bathroom. Sometime in the last month the tank had developed a crack and was leaking water. Two of our members (who did not complete a log form I might add) put a note on the Toilet indicating that the Toilet was out of service. Eventually one of the members who left the note called me and reported the problem. Actually I had already discovered the problem during an inspection of the Observatory Site on Mothers Day. I went out and bought a new Toilet Bowl and Tank. I forgot to check the Tank box before I bought it. While Matt was installing the tank, he discovered that the new tank was cracked. The upshot of this is that the East Bathroom Commode is also down for maintenance. Some days you can't win.

The Observatory Committee is still looking for a Tractor (new or used) with a bush hog to mow the grass at the Observatory Site. If anyone knows where we can get a Tractor as described please contact me by phone or E-mail.

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.

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## ***Observatory Corner... from previous page***

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For the last few months, I have been inserting a paragraph requesting membership feed back concerning installing computers in the Observatory. I have actually got a response. This gives me hope that members are actuating 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 and to report Observatory Site problems such as broken toilets.**

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## ***↻ Want Ads ↻***

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**For Sale: Meade ETX-90** Maksutov-Cassegrain with right angle viewfinder, 26 mm super Plossl and 9 mm Plossl Meade eyepieces, tabletop leg set, soft carry bag. Very portable and easy to use. \$400.00. Contact Karl Yust (281)498-8141 or kyust@personix.fiserv.com

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## ***Help Wanted: Star Parties for Kids***

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There will be two star parties for underprivieged kids near lake conroe 6/23/00 and 7/22/00 These kids are very well behaved and excited about astronomy. Volunteers are needed to assist at both dates. Please contact Marg 713-529-2548 or Steve Sartor via the web (Steven O Sartor <ssartor@ix.netcom.com>). BOTH days would be moonless and good for observing.

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# July - September

## Total Occultations

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*By Matt Delevoryas*

There are three interesting occultations by the Moon during the third quarter of 2000, and one non-occultation despite some information to the contrary. Here's the information for these events as seen from Houston (times are CDT):



- **July 13:** 58 Ophiuchi (BS 6595) (mag. 4.9) disappears behind the dark limb of the 95% illuminated waxing gibbous moon after 10:59 PM 53° clockwise from the south cusp, moon 38° up, azimuth 169°. (Reappears before 12:25 AM 63° counterclockwise from south cusp, moon 37° up, azimuth 194°.) This star has been reported to be a 0.02" binary, but this seems not to be confirmed.
- **August 24:** ZC 837 (BS 1860) (mag. 6.2) reappears, during early nautical twilight, from behind the dark limb of the 31% illuminated waning crescent moon after 6:14 AM 75° clockwise from the north cusp, moon 55° up, azimuth 97°. Disappears after 5:10 AM 50° counterclockwise from north cusp, moon 42° up, azimuth 88°.)
- **September 7:** Nu<sup>1</sup> Sagittarii (BS 7116) (common name Ain al Rami) (mag. 4.8) disappears behind the dark limb of the 72% illuminated waxing gibbous moon after 10:31 PM 40° clockwise from the south cusp, moon 34° up, azimuth 204°. (Reappears after 11:28 PM 35° counterclockwise from south cusp, moon 28° up, azimuth 217°.) This is a multiple star (ADS 11794 = WDS 18542-2245), with a magnitude 10.8 secondary 2.5" east (disappearing later) from the magnitude 4.9 primary, and with a magnitude 11.2 secondary 28" northeast from the primary.
- **September 17:** There is no interesting occultation on this date, even though an article in the January 2000 *Sky & Telescope* predicts an occultation of the Praesepe; the occultation actually occurs on November (16th/17th).

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# ***Minutes of the General Meeting of the Houston Astronomical Society***

**May 12, 2000**

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## ***Secretary's Draft***

1. The meeting was called to order by President Don Pearce at 8:10 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 1<sup>st</sup> Friday of the month, except for May and September when the meeting will be on the 2<sup>nd</sup> Friday of the month.
  - b. The novice meeting is across the hall in room 116 at 7:00 PM preceding the general meeting.
  - 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.
2. There were 64 members and 6 guests present.
3. The following new members were introduced:  
George B. Smith
4. Six guests were recognized.
5. The President reviewed the types of telescopes available to the membership at the Society's 18-acre observing site: C-14, 12.5 in. f/5, 12.5 in. f/7, and two 12.5 in. Dobsonians.
6. Darin Palmer, chairperson of the Telescope Loaner Program, was introduced in absentia.
7. The President announced the following membership benefits/concerns:
  - a. The *GuideStar* newsletter editor, Bill Pellerin, was recognized.
  - 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.

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## ***Minutes... from previous page***

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- 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. Bill Leach of the welcoming committee was introduced.
  - f. Mike Dye, Observatory Director was recognized as was Judy Dye, who is in charge of logo sales.
  - g. The program with Randall's grocery stores was announced and members were asked to register for nonprofit organization number 6618.
  - h. Kirk Kendrick was nominated for Novice Chairperson. Nominations were closed and Kirk was elected without opposition.**
  - i. Don Pearce announced that a small problem with depositing checks has been solved.
  - j. All those attending the Texas Star Party (TSP) were recognized.
  - k. Don discussed the new crescent moon (21 hrs & 48 min old) observed at TSP on Thursday night.
  - l. Mike Dye discussed plans to repair the cables on the roof of the observatory building and requested volunteers to help.
  - m. Brian Cudnik discussed organizing a group of HAS members to watch for lunar impacts.
8. Richard Nugent introduced the three science fair winners who gave short presentations on their projects followed by a question and answer session.
9. Matt Delevoryas gave a presentation on a controversial claim to have found the missing matter of the universe explaining why the universe is flat. Researchers claimed that it was ordinary hydrogen gas between the galaxies.
10. Steve Goldberg, Buster Wilson and Jose Sancho orchestrated the report from the Texas Star Party. The next Texas Star Party has been scheduled for May 13 – 20, 2001.
11. Jay Levy and Bill Leach handed out the door prizes.
12. President Don Pearce asked for donations for refreshments and all were invited to stay after the meeting for refreshments. The meeting was adjourned at 10:05 PM.

***HAS Secretary: William W. Leach  
May 12, 2000***

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# Get It Right!

by Bill Pellerin, GuideStar Editor

Do you ever go to the movies, or listen to a song, or read a book that contains an astronomical reference that's just plain wrong? I see this happen all the time. Full Moons that rise at midnight have been known to happen in films.

This weekend I saw a movie called *Frequency*. It's a good movie, and I recommend it, but some of what happens is just goofy. I've been a radio operator since I was a teenager and I know that talking to somebody on the radio is not the same as calling them on the phone. There are two many variables (you have to be on the same frequency, using the same mode, at a time when radio propagation permits communication). I also know that talking on the radio is normally half-duplex. That is, I talk, you listen, then you talk, I listen. You can't interrupt the talker because he or she can't hear you while he or she is transmitting. In *Frequency* they got this all wrong.

It seems that, in many of the instances I've seen, it would cost no more to get it right. That is, the story would proceed as well as it did in the screenplay if they bothered to get the details worked out. Any amateur astronomer knows enough to advise the movie maker against making dumb mistakes. Do these folks fail to ask questions?

I have a correct quote from a song:

*"It takes light years of nothing  
to let these stars shine through  
And it's an empty road  
That finds its way back home to you"*

..from "The Next Best Western" by Richard Shindell, on the album *Reunion Hill*. I like it... "light years of nothing"... a very good description of space, as far as I'm concerned. Every star you see is shining at you through light years of nothing (or almost nothing).

Good observing to you.

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## *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](mailto:bill.leach@nhmccd.edu). Web site: [www.astronomyclub.org](http://www.astronomyclub.org)

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## *HAS Web Page*

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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](mailto: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.

Note: The URL for the HAS Web page will soon be easier to remember:

<http://www.houstonastronomy.org>

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# ***Observatory Duty Roster***

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by Michael B. Dye, *Observatory Chairman*

This is the duty list for June, July and August. 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.

**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

**August Supervisor ..... Allen Gilchrist ..... 281-558-1190**  
Larry Wadle ..... Site  
Mark Watson ..... Members Observatory Night 08-19-00  
Tom Williams ..... Site  
Barbara Wilson ..... Members Observatory Night 08-19-00  
Buster Wilson ..... Members Observatory Night 08-19-00  
Warren Wundt ..... Site  
Richard Nugent ..... Site  
Don Bates ..... 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.

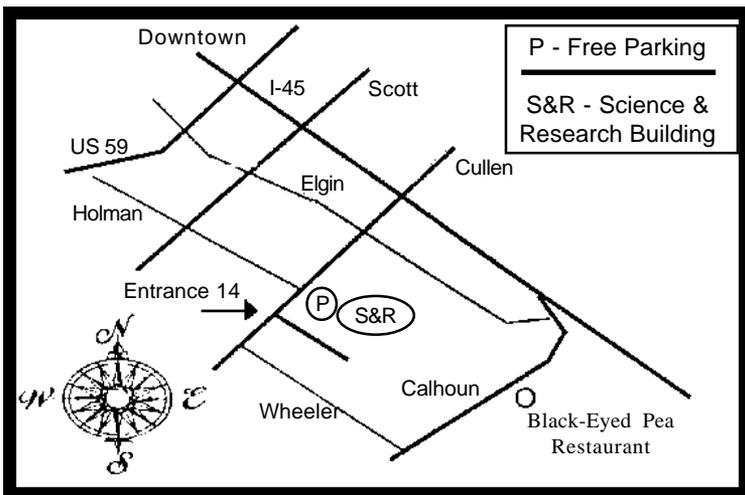
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# *Special "Help" Volunteers*

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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.

<b><u>Subject</u></b>	<b><u>Name</u></b>	<b><u>Phone</u></b>
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.

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