

Volume 4 No. 10

Wilmington, NC

October 1989

October Meeting Announcement

Sunday October 1, 1989 7:00 PM Bryan Auditorium Morton Hall UNC-W Campus

The next meeting of the Cape Fear Astronomical Society will be held on October 1, 1989 in the Bryan Auditorium of Morton Hall on the UNC-W Campus. The Business meeting will begin at 7:00 PM EDT.

The general meeting will begin at 8:00 PM. For the program of this months general meeting we will show a NASA film on the subject of SETI. The film is titled "A Quest for Contact" The film is 32 minutes long.

Meeting Minutes From September

The president, David Maness, called the regular business meeting of the Cape Fear Astronomical Society to order at 7:07 p.m. September 3, 1989 in Bryan Auditorium, Morton Hall, UNCW. The secretary, Paul Walker, read the minutes from August's meeting. The treasurer, Ronnie Hawes, reported that the checking account balance was \$9.70, and the expenditures since last month's meeting totaled \$30.78, specifically for

the newsletter. The observatory fund contained \$58.23, after \$12.36 was spent on the light bill for the Hamp-stead viewing site.

David Maness announced a work day, September 16 about 10 a.m., for getting the Hampstead site prepared for the fall viewing season.

Ronnie Hawes said approximately \$60 was raised during the lunar eclipse public viewing session at Fort Fisher last month.

Alan Hilburn explained that the Chapel Hill observatory's Schmidt-Cassegrain telescope will be under repair and not available during the society's planned trip of September 29. Ronnie Hawes added that Morehead Planetarium is showing "Sky Ramblers" at 7 and a program on galaxies at 8 on Friday evenings through mid-November, with more programs on Saturdays. He said to contact Alan Hilburn, Paul Petty, David Maness, or himself concerning going on the 29th. Alan added that the planetarium will have a Voyager program later this year.

David Maness related his last-weekend visit with the Catawba County Astronomy Club and their good site near Boone on the Blue Ridge Parkway. They will have a star party in two parts on September 30 and Oc-

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tober 28.

Ronnie Hawes thanked members who helped at the lunar eclipse session, and particularly David and Mrs. Maness for providing the food. Also he mentioned he had received correspondence from Mr. Bob Melvin, who presented August's program, regarding a new project, involving professionals and amateurs, about which he could present a program in the future.

David Maness noted that the society has reached the break-even point on the M&M's sales, therefore further revenues will supplement the treasury. He said he received correspondence from the Star Hustler promoting September as Amateur Astronomy Month, and the S. U. N.(Saturn, Uranus, and Neptune) program.

About eleven members were present at the busi-

ness meeting. It adjourned at 7:30.

After the break David Maness welcomed Rhett

Bennett as a new member.

For the evening's program Sam Bissette lectured on astrophotography. With his telescope and a myriad of equipment and photographs at hand, he explained the four techniques: camera on tripod, piggyback, prime focus, and eyepiece projection. He covered various related subjects including cost-effective developing, exposure considerations, tele-extenders and telecompressors, and emulsions. He emphasized the importance of keeping good records. Two visitors attended the program.

Alan Hilburn showed some slides of August's lunar eclipse which he exposed using piggyback and

prime focus.

David Maness closed in remarking that Paul Petty might present Voyager 2 video for October's program.

-Paul D. Walker

Hurricane Hugo

I have been to the Hampstead observing site after Hurricane Hugo passed through the coastal area.

We still have an observing site.

When I arrived at the Hampstead site late Friday afternoon I had no trouble driving all the way to the shelter. The driveway was almost completely dry. There was water standing in the field next to the road. This water was flowing slowly through the pipes under the driveway.

The only effect of Hugo I could find was to the south wall. This is the wall that we have discussed reenforcing in the past. It looked to me that this wall

was further warped by Hugo.

Everything else was in good shape. Now if we can only get some clear skies.

Local Solar Ephemeris

This months local Sunrise and sunset table is listed below. If you find any discrepancies in the table below please alert the editor.

	Twilight	Sun	Sun	Twilight
Date	Begin	Rise	Set	End
Oct 1	5:41	7:04	18:58	20:21
Oct 2	5:42	7:06	18:56	20:18
Oct 3	5:43	7:07	18:54	20:17
Oct 4	5:44	7:07	18:53	20:16
Oct 5	5:45	7:08	18:52	20:14
Oct 6	5:46	7:09	18:50	20:13
Oct 7	5:46	7:10	18:49	20:12
Oct 8	5:47	7:10	18:48	20:10
Oct 9	5:48	7:11	18:46	20:09
Oct 10	5:49	7:12	18:45	20:08
Oct 11	5:49	7:13	18:44	20:06
Oct 12	5:50	7:13	18:42	20:05
Oct 13	5:51	7:14	18:41	20:04
Oct 14	5:52	7:15	18:40	20:03
Oct 15	5:52	7:16	18:38	20:01
Oct 16	5:53	7:17	18:37	20:00
Oct 17	5:54	7:17	18:36	19:59
Oct 18	5:55	7:18	18:35	19:58
Oct 19	5:55	7:19	18:34	19:57
Oct 20	5:56	7:20	18:32	19:56
Oct 21	5:57	7:21	18:31	19:55
Oct 22	5:58	7:22	18:30	19:54
Oct 23	5:59	7:22	18:29	19:53
Oct 24	5:59	7:23	18:28	19:52
Oct 25	6:00	7:24	18:27	19:51
Oct 26	6:01	7:25	18:25	19:50
Oct 27	6:02	7:26	18:24	19:49
Oct 28	6:02	7:27	18:23	19:48
Oct 29	6:03	7:28	18:22	19:47
Oct 30	6:04	7:29	18:21	19:46
Oct 31	6:05	7:29	18:20	19:45

Sky Calendar - from page 3.

6:00 Eastern Standard Time returns. Set your clock back 1 hour.

15:27 New Moon. Lunation number 827 Edmund Halley born this day in 1656.

Sky Calendar for October 1989

(All times are Given in UT to convert to EDT subtract 4 hours; for EST subtract 5 hours.)

	(All times are Given in O'l to convert to ED)	Dabtraet 1	
Sunday: 1	SI Discontinuity in		the Apollo Command and Service Modules on this date in 1968.
20h	Moon at apogee. Distance from the Earth is	Pridow 1	
	63.7 Earth-radii.	Friday: 1.	Piscids Meteors. The radiant is located at
Tuesday:	3rd		right ascension 01:44; declination +14*;
6h	Mercury is stationary in right ascension.		ZHR = 5; slow moving about 27km/sec.
10:09	Mercury at ascending node	Saturday:	14th
	First successful flight test of a V-2 rocket made on this date in 1942.	20:32	"Full Moon called the ""hunters"" Moon."
	Andromedids Meteor. This stream is some-		First supersonic flight made on this date in
	times referred to as the Epsolon Piscids.		1947 by Chuck Yeager in the X-1 rocket
	The radiant is located near right ascension		plane.
	00:20; declination +8'; slow moving; red in	******	First Day of Tabernacles
	color; ZHR about 1 or 2.	Sunday: 1	15th
Wednesdo		1h	Moon at perigee. Distance from the Earth is
1h	Venus passes 3° north of the Moon.		55.9 Earth-radii.
	The Soviet Union launches the world's first	Tuesday;	17th
	artificial satellite Sputnik 1 on this date in	lh	Venus passes 1.8° north of Antares.
	1957.		Epsilon Geminid Meteors. The radiant is lo-
Thursday.	: 5th		cated at right ascension 06:50; declination
5h	Antares passes 0.4° north of the Moon.	W. to and	+27°; fast moving 70km/sec.
Friday: 6	th	Wednesda	Mercury at it's greatest northern latitude 7°.
	Venus at aphelion. Magnitude -4:2; distance		First images of the far side of the Moon are
	from the Sun is .73 au.		made by the Soviet probe Luna 3 on this
Saturday,	Lisanus passas 49 porth of the Moon		date in 1959.
0h	Uranus passes 4° north of the Moon. Saturn passes 4° north of the Moon.		Comet P/du Toit-Neujmin-Delporte at peri-
11h	Neptune passes 5° north of the Moon.		helion 1.7 au from the Sun.
15h 16h	Vesta passes 0.5° north of the Moon. Occul-		
1011	tation.	5h	Jupiter passes 4° south of the Moon.
Sunday: 8			Orionids Meteors. The radiant is located at
0:52	Moon at first quarter.		right ascension 06:20; declination +15°;
0.52	Mercury at perihelion. Magnitude 0.0; dis-		ZHR varies between 10 and 70 (expect
	tance from Earth 0.9 au.		around 25 this year). Fast moving 67km/sec
	Draconids Meteor. The radiant is located at		many different colors but faint. Derived
	right ascension 17:28; declination +54°;		from Comet Halley.
	speeds slow 21 km/sec. Derived from	Saturday	: 21th
	comet Giacobini-Zinner; last returned in	13:19	Moon at last quarter.
	1985. Meteorites travel in a swarm close to	Tuesday:	Regulus passes 1.1° north of the Moon. Oc-
	the comet. Shower can become a storm in	2h	cultation.
	the year the comet passes perihelion.	Wednesd	
Monday:	9th	23h	Mercury passes 4° north of Spica.
13h	Landin againstian with the Curt mayer	Thursday	
	Juno in conjunction with the Sun; moves into the evening sky. It's distance from	11140 3444)	Comet P/Schwassmann-Wachmann 1 at
	Earth is 4.1 au; Magnitude 11.3		perihelion 5.8 au from the Sun.
	Yom Kippur	Saturday	
Tuesday; 10th			Moon at apogee. Distance from the Earth is
12h	Mercury at it's greatest western elongation	22h	63.8 Earth-radii.
Lati	18°.		Venus at it's greatest southern latitude 3°.
*****	Comet P/Lovas at perihelion 1.7 au from	Sunday:	29th
	the Sun.	1h	Jupiter is stationary in right ascension; be-
Wednesd	lay; 11th		gins retrograde motion.
	Wally Schirra; Donn Eisele; and Walt Cun-		Continues on mars 9
	ningham make the first space flight test of		Continues on page 2.

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ningham make the first space flight test of

Upcoming Events in October 1989

Monthly Meeting of the Cape Fear Astronomical Society Sunday October 1, 1989; 7:00 PM - Bryan Auditorium; Morton Hall; UNC-W

> Deadline for the November Newsletter Wednesday October 18, 1989

Group Viewing Session Saturday October 28, 1989; Dusk until "?" – Hampstead Site

Tom Jacobs - Editor

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