VOLUME 1, No. 2

AUGUST 1986

MEMBERS:

FIRST I'D LIKE TO SAY THANKS FOR THE GREAT RESPONSE TO THE FIRST NEWSLETTER. EVERYONE SEEMED TO LIKE IT AND I HOPE THAT ALL OF YOU ENJOY IT.

I'D ALSO LIKE TO THANK RONNIE HAWES FOR DESIGNING THE LETTER-HEAD FOR THE NEWSLETTER.

HOPEFULLY WE WILL BE ABLE TO CONTINUE OUR NEWSLETTER THROUGHOUT THE YEAR.

OUR NEXT MEETING WILL BE ON SUNDAY, AUGUST 3rd, 8:00pm AT KING HALL ON THE UNC-W CAMPUS.

REPORT ON MARS AT OPPOSITION

ON JULY 13th, THE CLUB AGAIN VISITED THE FAMILIAR SURROUNDINGS OF FT. FISHER TO OBSERVE MARS AT OPPOSITION. THIS WAS ALSO AN EVENT OPEN TO THE PUBLIC. WE HAD 2 TELESCOPES SET UP COURTESY OF RONNIE AND ALAN. WE HAD ABOUT 45-50 PEOPLE TURN OUT FOR A LOOK AT MARS. ALSO VISIBLE WERE VENUS, SATURN, AND THR MOON: EVERYONE SEEMED TO ENJOY THE EVENT, SO HOPEFULLY, OUR PUBLIC EVENTS WILL CONTINUE.

THE CONDITIONS WERE A LITTLE LESS THAN FAVORABLE, WITH A STRONG WIND FORM THE SOUTH, BUT SOME FEATURES WERE STILL VISIBLE.

VIEWING THIS MONTH WILL BE SOMEWHAT MORE RESTRICTED, AS THE PLANET WILL BE ONLY ABOUT 90 % ILLUMINATED AND WILL DECREASE IN THE COMING MONTHS. IT WILL BE ONLY A SHORT TIME THOUGH BEFORE SEPT. 1988 WHEN MARS MAKES ITS CLOSEST APPROACH TO US. VIEWING THEN SHOULD BE EXCEPTIONAL.

THE AUGUST SKY

2nd	MERCURY STATIONARY			
4th	MERCURY 8 DEGREES SOUTH OF MOON			
5th	NEW MOON AT 2:36pm			
7th	SATURN STATIONARY			
9th	VENUS 2 DEGREES SOUTH OF THE MOON			
11th	MERCURY AT GREATEST ELONGATION (19 DEGREES) PERSEID METEORS ASAPH HALL DISCOVERS DEIMOS, MOON OF MARS, 1877			
12th	FIRST QUARTER MOON AT 10:21pm MARS STATIONARY PERSEID METEORS			
13th	SATURN 5 DEGREES NORTH OF THE MOON PERSEID METEORS			
14th	ANTARES 0.8 DEGREES SOUTH OF THE MOON OCCULTATION URANUS 4 DEGREES NORTH OF MOON			
15th	NEPTUNE 6 DEGREES NORTH OF MOON			
16th	MARS 0.5 DEGREES SOUTH OF MOON OCCULTATION MOON AT PERIGEE, 1:00pm			
17th	ASAPH HALL DISCOVERS PHOBOS, MOON OF MARS, 1877			
19th	FULL MOON 2:45pm VESTA STATIONARY			
21st	JUPITER 1.4 DEGREES NORTH OF MOON			
25th	VOYAGER 2 FLIES PAST SATURN, 1981.			
27th	LAST QUARTER 4:38am VENUS AT GREATEST ELONGATION (46 DEGREES) URANUS STATIONARY			
28th	MOON AT APOGEE 11:00am WILLIAM HERSCHEL DISCOVERS ENCELADUS, MOON OF SATURN. 1789			
31st	VENUS 0.5 DEGREES SOUTH OF SPICA.			

AUGUST SKY CONSTELLATIONS

LYRA-SETTING

HERCULES-SETTING

PERSEUS-RISING

CYGNUS

OPHIUCHUS DELPHINUS AQUILA

SCORPIUS D
CASSIOPEIA-RISING

SAGITTARIUS URSA MINOR

ORIGINS OF THE CONSTELLATIONS.

THIS WILL BE THE FIRST IN A SERIES ON THE ORIGINS OF THE CONSTELLATIONS. I WILL TRY TO FIND THE LEGENDS BEHIND ALL 88 OF THEM AND PASS A FEW ALONG TO YOU EVERY MONTH. SINCE WE ARE MOST FAMILIAR WITH THE 12 IN THE ZODIAC, THAT'S WHERE I'LL START.

ARIES-THE RAM THIS WAS THE RAM WHO'S GOLDEN FLEECE WAS CARRIED OFF BY JASON AND THE ARGONAUTS. IT WAS ONE OF THE PRIZES OF THEIR VOYAGE. THIS SACRIFICE BY THE RAM EARNED HIM A PLACE IN THE SKY.

TAURUS-THE BULL ZEUS DISGUISED HIMSELF AS THIS SNOW-WHITE BULL IN ORDER TO ATTRACT EUROPA, PRINCESS OF PHEONECIA. SHE WAS DRAWN TO THE ANIMAL BECAUSE OF IT'S BEAUTY AND CLIMBED ONTO IT'S BACK. ZEUS THEN SWAM WITH HIS PASSENGER TO CRETE, WHERE HE REVEALED HIS IDENTITY TO HER AND WON HER HEART.

GEMINI-THE TWINS SOME LEGENDS SUGGEST THAT THESE TWO BROTHERS WERE NOT REALLY TWINS, OR EVEN BROTHERS. THEY WERE HALF-BROTHERS CASTOR, BEING THE SON OF TYNDARUS, AND POLLUX, THE SON OF ZEUS. THIS WOULD HAVE MADE POLLUX IMMORTAL. AFTER CASTOR'S DEATH, POLLUX WAS SO GRIEF STRICKENED THAT ZEUS REUNITED THEM BY PLACING THEM TOGETHER IN THE SKY.

CANCER-THE CRAB WHEN HERCULES WAS STRUGGLING WITH HYDRA, THE GODDESS JUNO SENT THIS CRAB TO ATTACK HIM. THE CRAB WAS NOT SUCCESSFUL AND WAS CRUSHED BY HERCULES, BUT JUNO REWARDED THE CRAB'S EFFORTS BY PLACING HIM IN THE HEAVENS.

NEXT MONTH I'LL HAVE 4 MORE FOR YOU.

ASTRONOMICAL GLOSSARY

APHELION- THE FARTHEST POINT FORM THE SUN IN AN OBJECTS ORBIT AROUND IT.

CONJUNCTION- THE ALIGNMENT OF 2 CELESTIAL BODIES THAT OCCURS WHEN THEY REACH THE SAME CELESTIAL LONGITUDE. THE BODIES THEN APPEAR APPROXIMATELY CLOSEST TO EACH OTHER IN THE SKY.

INFERIOR CONJUNCTION- THE CONJUNCTION IN WHICH A PLANET WHOSE ORBIT IS INSIDE THAT OF THE EARTH PASSES BETWEEN THE EARTH AND THE SUN.

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SUPERIOR CONJUNCTION- THE CONJUNCTION IN WHICH A PLANET WHOSE ORBIT IS INSIDE THAT OF THE EARTH PASSES ON THE FAR SIDE OF THE SUN WITH RESPECT TO THE EARTH.

OCCULTATION- THE HIDING OF ONE CELESTIAL BODY BY ANOTHER.

PERIHELION- THE NEAREST POINT TO THE SUN IN AN OBJECTS ORBIT AROUND IT.

ELONGATION- ANGULAR DISTANCE IN CELESTIAL LONGITUDE FROM THE SUN IN THE SKY.

OPPOSITION- THE POINT IN A PLANETS ORBIT AT WHICH IT'S CELESTIAL LONGITUDE IS 180 DEGREES FORM THAT OF THE SUN. A PLANET AT OPPOSITION IS VISIBLE ALL NIGHT LONG.

METEOR REPORT

THIS MONTH, REMEMBER TO CATCH THE PERSEID METEOR SHOWER.

(AUG 11th-13th) THIS SHOWER IS ANNUAL. IT AVERAGES ABOUT 30 TO 50 METEORS PER HOUR. RADIANT FOR THIS SHOWER IS 03H 04M r.a. & +58 dec. IT'S WORTH STAYING UP FOR.

THE CLUB IS TENTATIVELY PLANNING AN OUTING THE NIGHT OF THE 12th TO DO SOME OBSERVING AND PHOTOGRAPHY. TIMES AND PLACES WILL BE DISCUSSED AT THE MEETING.

IF YOU PLAN TO OBSERVE THE SHOWER, YOU COULD TAKE DOWN SOME OF THE FOLLOWING INFO TO SEND TO THE AMERICAN METEOR SOCIETY. I'VE LISTED THE ADDRESS BELOW.

FIRST, YOU'LL NEED A GOOD COMFORTABLE CHAIR TO SIT IN, AWAY FROM LIGHTS, AN ACCURATE WATCH, SET TO THE NEAREST SECOND, AND SOMEONE TO HELP YOU TAKE NOTES TO KEEP YOUR NIGHT VISION FROM BEING RUINED WHILE TRYING TO WRITE THINGS DOWN.

WHEN A METCOR PASSES OVER, RECORD THE TIME OF THE EVENT, THE DURATION OF THE METEOR, THE LENGHT OF THE TRAIL, AND THE APPARENT VISUAL MAGNITUDE (BY COMPARING IT TO NEARBY STARS). REMEMBER, THE PEAK TIME WILL BE EARLY IN THE MORNING PROBABLY AROUND 3:00 TO 5:00am SO THAT'S WHEN YOU'LL SEE THE MOST ACTIVITY. WHEN YOU COMPILE YOUR DATA, YOU CAN SEND IT TO:

THE AMERICAN METEOR SOCIETY DEPT OF PHYSICS SUNY GENESCO,NY 14454

MAKE SURE TO GIVE YOUR LOCATION AND WEATHER CONDITIONS. ALSO MENTION THAT YOU ARE A MEMBER OF THE CLUB.

SPECIAL REPORT

SOME SELECTED DOUBLE STARS FOR VIEWING IN OUR AREA.

NAME	CONST.	MAG	COLORS
GAMMA ANDROMEDA	ANDROMEDA	2.3,5.1	ORANGE/BLUE .
BETA MONOCEROTIS	MONOCEROS	5.2,5.6	BLUE
IOTA CANCRII	CANCER	4.2,6.6	YELLOW/BLUE
GAMMA VIRGINIS	VIRG0	3.6,3.6	YELLOW
BETA SCORPII	SCORPIUS	2.9,5.1	
BETA CYGNI	CYGNUS	3.2,5.4	YELLOW/GREEN

DID YOU KNOW..... THAT IN ONE 24 HR PERIOD ABOUT 1000 POUNDS OF EXTRATERRESTRIAL MATERIAL REACHES THE SURFACE OF THE U.S., ABOUT ONE TINY PARTICLE PER SQUARE YARD EVERY DAY?

page 5