



Newsletter for the

Milwaukee Astronomical Society

April 1991

From The Editor

First the Equinox Vernal, then Virgo. With the Sun's spring return to the Northern Sky, winter's bright open clusters give way to dim galactic glimmerings. Now an especially darkened sky is required to provide the backdrop to reveal the secrets of the "realm of the galaxies". MAS members can enjoy the mystery of light slivers and cosmic strings by traveling to the dark sky camp-out at Greenbush on May 10-11.

But before our eyes gaze at cosmic distances, let us enjoy the cosmically closer April activities, including: the NCRAL Convention (April 13), National Astronomy Day (April 20); and the Spring Field Trip (April 27th). For specific details/registration information on each, see the March Focal Point or call, respectively, Dan Koehler, Lee Keith, or Tom Renner. Your editors Matthew and Tom will be glad to answer questions too. Hope to see you soon!

Matthew McNeeley

Program/Meeting

There will be no Program/Meeting this month. Instead, plan on attending the MAS Spring Field Trip, to the Adler Planetarium and other Chicago points of interest, April 27th, 1991. See March Focal Point or call Tom Renner at 392-2799.

Astronomy To Go

Thanks to Matthew McNeeley, Tom Gill, Lee Keith, Jeff Annis for bringing their scopes and enthusiasm to the "Ski and Stars" event at Pike Lake on February 9th 1991. I thought I got pretty excited when finding a new Messier object, but everyone within earshot knew when Matthew found M46. His enthusiasm affected us all and helped to make the event a resounding success.

The event came about as a result of talking with the Pike Lake Rangers who I knew were enthusiastic about astronomy. Park Superintendent John Wald and Terry Jensen were also very helpful with the details of the telescope area. Over 800 people attended and about half checked out the telescope viewing area. We had perfect weather, good seeing and a great location—a clear view of the Northern, Western and Southern horizons with a small Eastern hill blocking stray light from Slinger. Taking astronomy to the people (by incorporating viewing with another outdoor event) is a great way to help others discover the wonder of astronomy.

Thanks to the Northern Cross Science Foundation who cordially extended an invitation to other Southeastern Wisconsin Clubs. (CON'T ON BACK PAGE)

Calendar of Events

- April 3, Wednesday First Wednesday Meeting
7:30 at the Observatory
 - April 8, Monday MAS Board Meeting
7:30 at the Observatory
 - April 13, Saturday NCRAL Convention
DePere, WI
 - April 20, Saturday ASTRONOMY DAY
2:00 to 10:00pm at the Observatory
 - April 27, Saturday Spring Field Trip (see above)
- Saturday Nights—Member night at Observatory—Call key holder

Saturday Nite Keyholders

- Mar. 30 John Pfannerstill 475-6494
- Apr. 6 Frank Roldan 608-787-1730
- Apr. 13 Terry Ross 784-2093
- Apr. 20 Gerry Samolyk 529-9051
- Apr. 27 T. Schmidt-kunz 784-0253
- May 4 Peter Smitka 785-0926

Library News

There aren't any straight edges! Imagine looking at an enormous jigsaw puzzle depicting a star, several planets, a good number of moons, some dusty areas and wisps of gas, thousands of rocky worldlets, and million of conglomerated lumps of ice and soot. Now imagine taking the puzzle apart piece by piece in reverse order from that which it was constructed over 4 1/2 billion years ago. Mindful of unseen electromagnetic and gravitational influences which have acted on them during the eons, you are to return each piece to its original place in the "box".

This is somewhat analogous to the task of the scientists who have contributed their specialty chapters to The New Solar System, 3rd Edition, edited by J. Kelly Beatty and Andrew Chaikin, 1990. The book resembles a compilation of major articles from Scientific American or National Geographic in that it is outstandingly illustrated and printed on heavy, glossy stock. The content is current having been reworked since the end of the the Voyager encounters. It's written for the informed layperson—detailed, but not overwhelming. The authors are careful to identify that which is still theoretical as they interweave theory with corroborating data.

From the (inferred) metallic heart of Mercury to the evolving (how?) nitrogen atmosphere of Titan to the icy swarm of comets in the (theoretical) Oort Cloud, there is a general scheme of composition within the system that bears a distinctive relation to the (assumed) vapor pressure in different parts of the prosolar nebula. Moreover, the giant planets and their systems of moons and rings may have evolved from their own subsidiary nebulae within the larger one. The (observed) patterns of impact cratering on all bodies of solar system help provide a probable time line to accretion processes. The book includes a section of photographic planetary maps taken by spacecraft.

Scientists are making use of every scrap of evidence available, be it from orbital or spectral analysis or actual sampling, in an effort to "unmake" the puzzle. Understandably, almost every author urges further planetary exploration and material retrieval from comets, asteroids, moons and even atmospheres of other planets.

Other recent additions: The Origin of Comets-Bailey, Clube & Napier, 1990, is an exhaustive, critical review of every comet theory since the Babylonians. Perhaps ancient terror of those "atmospheric portents" was supported by an enhance influx of meteoric debris when a giant comet disintegrated. Since the time of Tycho and Helvelius, however, a cosmic origin has been accepted, and the current debate involves the evolution of the Oort Cloud. Were comets formed with the primordial solar system or are they captured from the interstellar medium through events of galactic proportions? (see review April *Sky & Telescope*).

Comets, the Swords of Heaven-Ritchie, 1985, donate by Scott Laskowski and The Comet is Coming-Calder, 1981, donated by Jim Mayer, were written in anticipation of Comet Halley's reappearance. They cover much the same ground as The Origin of Comets but are aimed at the popular-level audience.

-Sally Waracznski

(CON'T FROM FRONT) Northern Cross had seven members attending and it was a good opportunity to meet with members from other clubs and make new friends.

Pike Lake has a lot to offer Milwaukee astronomers. It's close to Milwaukee (35 minutes from downtown) and has first-rate skies. Also, it's not necessary to rent a campsite to observe. A map and rules about observing will appear in a future Focal Point or by calling the rangers at 1-644-5248 between 8am-4pm. If anyone from MAS would like to give a talk at Pike Lake, or have an observing session, call the Rangers. They will gladly spread the word for you. If you have any other questions, call Tim Burris at 783-6572.



MAS INFORMATION

MAS OFFICERS

President Dr. Richard Wiesen
781-4786

Vice President Matthew McNeeley
354-5347

Secretary Dorothy Kube
453-8858

Treasurer Dan Koehler
662-2987

Obs. Director Gerry Samolyk
529-9051

Ast. Obs. Director Paul Borchardt
781-0169

Librarian Mrs. Sally Waraczynski
321-0918

Assist. Librarian Mrs. June Regis
962-0896

Program Dir. Tom Renner
392-2799

FOCAL POINT Staff

Matthew McNeeley (Editor)
8200 N. Cedarburg Road
Brown Deer, WI 53209
354-5347

Tom Gill (publisher)
1391 N. 72nd Street
Wauwatosa, WI 53213
476-6986

MAS Observatory

18850 W. Observatory Rd.
New Berlin, WI
542-9071