Bob Watt ("like a lightbulb but not as bright") first became interested in astronomy back in 1957. He visited a friend with an extensive home library, and after some conversation, walked away from that visit with a great book on telescope making. Bob then made his way to the Detroit Astronomical Society where he was a member from 1957 to 1958. That group had an elaborate telescope-making set-up and it was there that Bob made his first telescope. Bob says that everything that could have went wrong did, but that after working one evening each week for 13 months he had a perfect 6" mirror.

Bob has made his share of telescopes since then. In 1964 Bob helped some 4th and 5th graders at Trinity Lutheran School in Warren build an 8" scope. He also helped assemble the WAS 22" telescope and describes that as an experience to remember. Bob now focuses...
The WASP
Published by
Warren Astronomical Society, Inc.
P.O. Box 1505
Warren, Michigan 48090-1505

1998 Officers
President Dave D’Onofrio 313-563-6652
1st VP John Herrgott 248-565-9346
2nd VP Blaine McCullough 810-573-8559
Secretary Bob Watt 810-757-4741
Treasurer Steve Greene 810-659-1199

The Warren Astronomical Society, Inc. is a local, non-profit organization of amateur astronomers. The Society holds meetings on the first and third Thursdays of each month, starting at 7:30 p.m.

First Thursday meeting: Third Thursday meeting:
Cranbrook: Institute of Science Macomb Community College
1221 North Woodward Ave South campus, Bldg. B, Room 209
Bloomfield Hills, Michigan 14600 Twelve Mile Rd.
Warren, Michigan

Membership and Annual Dues

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Send membership applications and dues to the treasurer:
Steve Greene
23044 Settlers Dr.
Macomb Twp. MI 48042

Among the many benefits of membership are
Discount magazine subscription:
- Astronomy $24.00 (12 monthly issues)
- Sky & Telescope $27.00 (12 monthly issues)
- CCD Astronomy $27.00
- Loaner telescopes (with deposit). See 2nd VP.
- Free copy of each WASP newsletter.
- Free use of Stargate Observatory.
- Special interest subgroups. See chairpersons.
- Free use of W.A.S. library. See librarian.
- Call list: don’t miss unexpected events.
- Free membership in Astronomical League, including Reflector newsletter.

More benefits are listed in Member Booklet

The Warren Astronomical Society Paper (WASP) is the official monthly publication of the Society. Each new issue of the WASP is made available at the Macomb meeting on the third Thursday. Non-members will be charged $1.00 for each new issue. Back issues, when available are free. Requests by other clubs to receive the WASP and other correspondence should be addressed to the editor.

Articles for inclusion in the WASP are strongly encouraged and should be submitted to the editor on or before the first Thursday of each month. Any format of submission is accepted, however the easiest forms for this editor are files in plain text format, and graphics in PCX format. Materials can either be transmitted in person, via US Mail, via direct modem connection at the phone number listed below (call using voice first), or E-mailed on the Internet to bondono@eaglequest.com.

For further information on contribution, see or call the editor:
Bob Watt
1998 Officers (WASP)
President Dave D’Onofrio 313-563-6652
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Disclaimer: The articles presented herein represent the opinion of their authors and are not necessarily the opinion of the Warren Astronomical Society or this editor. The WASP reserves the right to edit or deny publication of any submission.

Stargate Observatory is owned and operated by the Society. Located on the grounds of Camp Rotary on 29 Mile Road, 1 miles east of Romeo Plank Road, Stargate features a 12.5 inch f/17 club built telescope under a steel dome. The observatory is open to all club members in accordance to the "Stargate Observatory Rules" published in the member handbook. Those wishing to use the observatory must call the 2nd VP by 7:00 p.m. on the evening of the session. The coordinates for Stargate Observatory are 82° 56’ 0.4” W, 42° 46’ N.

Library: The Society maintains a library of astronomy-related books and periodicals at the Macomb meeting room. See the librarian, Louis Namee, to check out a book.

Special interest groups
Computers Larry Kalinowski 810-776-0720
Deep Sky Doug Bock 810-759-2272
Lunar/Planetary Riyad Matti 810-348-2333
Solar Marty Kunz 248-417-2546
Math John Herrgott 810-543-1442
Telescope Fred Judd 810-756-7408

Announcement!

Jeff Bondono and Ceil Brooks (now Bondono) are happy to announce that they tied the knot on May 26th in the elopement capital of the Midwest, Toledo, Ohio. Jeff and Ceil will be living in Shelby Township. Look for Ceil at upcoming club meetings and events. You'll recognize her by her sparkling smile and the guy with the ponytail by her side.

CEIL from page 1
his attention on his 8" Schmidt-Cassegrain. His love of astronomy, which began with a special interest in the sun and the planets has now expanded to deep sky objects. He has computerized his telescope and hopes to bring some high-tech toys to this year's SMURFS star party in July. Bob is also looking forward to pursuing his interest in astrophotography.

Bob has been a member of Warren Astronomical Society for about five years. He has been the club secretary since January of this year and stated that he never dreamed the role was such a learn-as-you-go job!

Bob retired about 5 and a half years ago. It is hard to believe that he ever has time to sleep given all his interests! He has a 30’ x 30’ organic garden where he grows kohlfarbi (what's that?) and a variety of other vegetables. His favorite vegetable to grow is the Thailand Hot Pepper plant. He has more than 35 of them in his garden and ends up giving them all away. Hard as it is to believe, Bob says that the folks that like his hot peppers the best are the workers of the nursing home where his mother-in-law resides. They also enjoy Bob's green tomatoes.

Bob is a real 'joiner' and belongs to many clubs and associations, including the Great Lakes Maritime Institute, the Kite Flyer's Association, International Watch and Clock Collectors and the Audubon Society.

Bob is married to Pat and they like to call themselves 'flower people'. They have been growing all kinds of flowers (more varieties than could be mentioned here) for years! Pat collects postcards and also teaches cake decorating. Bob has one daughter named Robin and for years! Pat collects postcards and also teaches cake decorating. Bob has one daughter named Robin and two granddaughters, Sana who is 13 and Sarah who is 15. Bob is the proud father-in-law of Mazher who is from Pakistan and is a mechanical engineer.

Bob has a heart-of-gold and even volunteers his time to mentor second grade kids, helping them with their reading and writing. Bob says "kids and dogs like me so I can't be all bad!"
McCullough brought up the WAS 22" Dob and this was used by Marty Kunz and Pat "Comet Ace" Stonehouse to provide a look at the new comet and other "faint fuzzies" to all who cared to peek. Doug Bock had his 20" Dob and provided his "tour of the universe" to anyone who wandered by. I kept hearing people saying "Six! I count six galaxies in this field of view!" from Doug's direction. Jack Kennedy took some astrophotos this weekend using his LX200. Judging from the raw prints he got some excellent shots! Larry Vassallo brought up his new 5th wheel for camping and had an LX200 and a 10" Dob, he was also taking astrophotos. Glenn Wilkins had his new camper set up on the field near the road along with his large Dob. Tim Gillen, from Traverse City, joined us and brought his large Dob. Rich Brenz from Cadillac was out with his 10" LX200 for two nights and he kept us supplied with tools for on-site repairs! Thanks Rich! I won't forget the time I spent looking through Dave Cialli's 14" Dob observing the veil nebula with an O-III filter. This allowed us to very clearly see the smoke like wisps of the nebula structure and almost gave a 3-D effect - VERY NICE!! I also saw Pluto for the first time thanks to Dave.

Also on site was the entire extended Bock clan, Vic and Pat Singh and their extended clan, Rich and Christine Becker, new members of the FAAC and several new observers from the Cadillac area out to scope out the scopes.

KA-CHING!! Mother nature paid off against the odds, for us here in Michigan, giving us 3 clear nights out of 4. Made you kind of want to run up to a casino while our luck was holding so well! Friday night was kind of scary with the sky clouding up in the afternoon. The clouds teased us until around 11:00 and then we noticed that the stars were getting brighter. By 11:30 the sky was clear. Saturday was great all day and all night. Sunday was a different story. The clouds rolled in at mid-morning and a soft rain started to fall. This kept up, on and off, all day and through the night. Monday morning dawned still raining. This was crunch time - do you pack and go home or have faith? The clouds lingered through the morning and into the afternoon. Finally the sun broke through some holes. Two hours later the sky was clear and stayed that way all night! The "Faithful Five" that stuck it out had a wonderful night of observing.

Looking at the equipment that showed up it seems that large Dobsonian telescopes were the scope of choice for the veteran serious observers. There were 4 SCT's (two 8" and two 10") and one equatorial Newtonian on the field with the rest big Dobs. We needed Greg Burnett, with his big refractor, and Bob Fitzgerald, with his binocular setup to round things out!

The skies were very nice getting dark at around 10:30 and staying that way until around 4:30 AM. The humidity kept the skies a little "bright" but afforded some great nebula views. I am no judge of stellar magnitude but some discussions on Saturday night put the sky at somewhere around 6th magnitude. It was plenty dark enough to see a lot of structure in the milky way. The Lagoon, the Eagle, the Swan, the double cluster and M31 were all naked eye objects, that's dark enough for me.

As usual for a star party, things got quiet in the wee morning hours. This is the time when quiet murmurs can be heard across the field and the occasional group gasp as a particularly bright meteor flashes by. This quiet intensity is what unknots the psyche and relaxes the soul. Is this a great hobby or what!!!!

Don't forget the Northern Cross Observatory Summer Solstice Star Party at the observatory site in Fenton Michigan. This will take place on June 26th to the 28th. Check Doug's Northern Cross Observatory web site for maps and additional information at http://bsd1 kode.net/~dougbock/index.html. See you there!!
The Mars Global Surveyor may have discovered water on Mars. What appears to be an ice filled crater has been found near the equator by a Tennessee researcher. This water source would be very valuable for a Mars landing team.

Don’t forget the WAS club picnic to be held starting Saturday, June 20 and Sunday, June 21. Overnight accommodations will be available for those who just have to catch a couple of winks during the twilight hours. There will be food and drinks for all. If you have a dish to bring, please do. We had a swap table last year and plan to have another. So if you have any items to swap or sell, bring them along. Please don’t forget to bring a repellant for those pesky mosquitoes, and kids, bring a glass jar to catch fireflies.

The June computer meeting will be at Gary Gathen’s home, on Thursday the 25th. The July meeting on the 23rd, as well as the rest of the fourth Thursday meetings through, and including, October. All new visitors will receive a free Windows planetarium program. Gary lives in Pleasant Ridge, at 21 Elm Park, three blocks south of I-696 and a half block west of Woodward Ave. His number is 248-543-3366.

I’m still looking for someone to take my place as Computer Group chairman. If you’re interested, give me a phone call at 810-776-9720.

I latched onto a term that allowed me to sleep at night. That term was one that as insignificant as it may seem, is so significant that millions of people in hundreds of countries are defined by it. People with one day’s worth of astronomy to the learned folks with decades of experience. That one term is ‘Amateur.’ It doesn’t mean that you are less of an astronomer than the next person, it means something different, much more than that. Being an amateur astronomer means that you belong to this big, no, enormous club where others share your interests, share your quest for knowledge, know how amazed you are when you find something in the sea of shining points of light because they too were excited to find those same objects.

You are in good company when you are an amateur astronomer. I started out by using the computer program that I had. I went to the library and over the course of six months, had checked out every book on telescopes at least once and some two and three times. I now have quite a collection of books and equipment, most of which I asked for at Christmas time or my birthday. I also have had many experiences, listening to the presentations at the Cranbrook and Macomb meetings and observing at Stargate. I am glad I joined the club.

Most astronomy in Michigan is done at home. There are books to read, video tapes from the library to check out, programs on ‘Nova’ and ‘The Learning Channel (TLC)’ provide countless hours of opportunity to learn about astronomy. The internet is full of sites that provide up to the minute news in the field of astronomy. Don’t forget the WAS club meetings where presentations are given on everything from the sun to making a telescope.

The bottom line is to be involved! Each of our members has some knowledge about some aspect of astronomy that others would love to hear about. Share an experience, or the latest book you read or video you saw. Join the group at Stargate, you may see nighttime objects you have never seen before.

It has been two years since I was sitting on the patio with Nancy. I have enjoyed many weekend evenings that quickly moved on into the wee hours of the morning at Stargate Observatory. I have ‘Discovered’ many of the constellations and to date, twenty five Messier Objects. Several of our members have been regulars at Stargate, enduring the bitter cold of January and February and now fighting off the summertime bugs but... they come prepared and say to me “I’ll be back.” Last week a few of our new members joined in the viewing of the nighttime splendors. It is always enjoyable to help others find the amazing objects that can be viewed with the telescope. I hope that other new members, other ‘Amateur Astronomers’, will decide to make the time to go and see the wonders of the sky.
Macomb Meeting
May 21, 1998

PRESIDENT DAVE D’ONOFRIO OPENED THE MEETING AT 7:47 PM WITH 33 MEMBERS AND 2 GUESTS IN ATTENDANCE.

OFFICERS REPORTS:

PRESIDENT- DAVE D’ONOFRIO

DAVE GAVE THE RESULTS OF THE RUN-OFF ELECTION FOR A REPLACEMENT FOR JOHN HERRGOTT, 1ST VP. THE BOARD OF DIRECTORS HAS CHOSEN CHRISTOPHER MEHLING. DAVE ASKED THAT EVERYONE SUPPORT CHRIS IN HIS EFFORTS AS 1ST VP.

THE KENSINGTON STAR PARTY ON MAY 1 AND 2 WAS ATTENDED BY ABOUT 500 PEOPLE, BOTH NIGHTS THE SKY WAS CLOUDY. THE INDIVIDUAL CLUB TALKS WENT VERY WELL, ENJOYED BY ALL. THE HIGHLIGHT OF BOTH EVENINGS WAS THE MAIN SPEAKER, DAVID LEVY. HIS TALK ON COMET HUNTING AND HIS ASTRONOMICAL VIEWS WERE INSPIRING. THANKS GO TO THE NATURE STORE WHO SPONSORED MR LEVY’S APPEARANCE. THE CLUB’S 22” SCOPE WAS SIGNED AND DATED BY DAVID LEVY WITH A NICE INSCRIPTION TO FUTURE SKYGAZERS.

IT IS OUR PRESIDENTS HOPE TO RENEW EFFORTS TO GET LINES OF COMMUNICATIONS OPENED WITH THE HURON METROPOLITAN AUTHORITY ON WHAT THE FUTURE HOLDS. JOHN HERRGOTT HAS DONE MUCH WORK ALONG THESE LINES.

THERE IS TALK OF KENSINGTON STARTING AN ASTRONOMY CLUB AT THE PARK.

THE RESULTS OF THE VOTING ON THE FOUR PROPOSALS IS IN, ALL PASSED.

2ND VP-BLAINE McCULLOUGH

ALL SCOPES WERE AVAILABLE AT STARGATE FOR AN OUTING FOR 30 SCOUTS AND 11 CLUB MEMBERS, GOOD SKIES TILL 4:00AM. BLAINE SAID HE WILL GO TO DOUG BOCK’S STAR PARTY ON MAY 23 IN BOON, MI.

THERE IS A REQUEST FROM A LARGE GROUP OF CIVIL AIR PATROL MEMBERS TO COME TO STARGATE ON JUNE 26 AND 27, BLAINE WILL NEED HELP WITH THIS EVENT.

TREASURER- STEVE GREENE, THE BALANCE IN OUR TREASURY STANDS AT $6120.11.

Cranbrook Meeting
June 4, 1998

PRESIDENT DAVE D’ONOFRIO OPENED THE MEETING AT 7:47 PM WITH 30 MEMBERS AND 3 VISITORS.

OFFICERS REPORTS:

PRESIDENT- DAVE D’ONOFRIO

DAVE INTRODUCED OUR NEW 1ST VP, CHRISTOPHER MEHLING.

ASTRONOMY DAY AT CRANBROOK WAS DISCUSSED, A LETTER FROM MIKE NARLOCK THANKING THE 5 WAS MEMBERS FOR SETTING UP IN THE LOBBY AND ANSWERING QUESTIONS FROM THE PUBLIC WAS READ ALOUD. CLOUD CONDITIONS MADE OUTSIDE SOLAR VIEWING IMPOSSIBLE.

MEMBER ADDRESS, TELEPHONE AND E-MAIL ADDRESS LIST IS ON THE FRONT TABLE.

SECRETARY- BOB WATT, THE LETTER TO CRANBROOK ASKING FOR CONTINUED USE OF MEETING ROOM, AUDITORIUM, PLANETARIUM AND AUDIO/VISUAL EQUIPMENT, HAS BEEN SENT.

SOLAR GROUP- MARTY KUNZ, THERE HAS BEEN A SUPER NOVA OF 11 MAGNITUDE, 1 MINUTE N AND EAST OF THE CORE OF COMET STONEHOUSE.

NOTES: KIM DYER, ON THE 29TH AND 30TH OF THIS MONTH MICHIGAN STATE WILL HOST AN OPEN HOUSE ON THE 24”, F8 SCOPE.

THE BREAK WAS AT 8:55PM.

THE PROGRAM THIS EVENING WAS BY JEFF BONDONO ON FOCAL THERMAL TESTING MIRROR SURFACES. JEFF SET UP HIS 14 3/8” MIRROR ON THE STAND AND LET MANY MEMBERS READ THE FOCAL TEST. MANY EXAMPLES WERE EXPLAINED WITH THE USE OF BLACKBOARDS. WELL DONE JEFF!!
ANYONE WORKING TOWARD THE MESSIER CERTIFICATE CAN GET HELP FROM DOUG BOCK ON JUNE 26 AND 27 AT HIS FENTON STAR PARTY.

SMURF’S IS COMING UP ON JULY 23-26, VERY DARK SKIES, AN ALL AROUND GOOD TIME. DO NOT MISS THIS EVENT!!!

ASTRO-FEST IS DUE IN SEPT, OUTSIDE CHICAGO, IN A STATE PARK, ABOUT 1000 PEOPLE ATTENDING, SPEAKERS, SWAP TABLES, TELESCOPES GALORE. MORE INFORMATION WILL FOLLOW.

2ndVP- BLAINE McCULLOUGH, BLAINE RELATES THAT JUNE IS GOING TO BE A BUSY MONTH, JUNE 20 IS THE ANNUAL CLUB PICNIC, (YOUR HELP WILL BE APPRECIATED), ALL SCOPES WILL BE CALLED IN FOR THE PICNIC, 27 CIVIL AIR PATROL MEMBERS AND 50 SCOUTS ARE COMING TO STARGATE. THE FRANK McCULLOUGH DEDICATION PLATE HAS BEEN REPAIRED AND PUT BACK ON THE 22” SCOPE. THE DAVID LEVY INSCRIPTION ON THE 22” SCOPE IS NOW COVERED WITH A LUCITE PROTECTIVE COVER.

TREASURER- STEVE GREENE, THE ASTRONOMICAL ALMANAC IS BEING REVISED. STEVE WENT OVER QUESTIONS COVERING ASTRONOMICAL LeAGUE CERTIFICATES AND HANDBOOKS FOR EACH, MESSIER CERTIFICATES, AND THE HERSCHELL CERTIFICATES.

NOTES:

A FRAMED CERTIFICATE WAS PRESENTED TO FRED JUDD IN REMEMERANCE OF THE MANY EFFORTS HIS MOTHER MADE FOR THE CLUB.

MORT STERLING REPORTS HE RECEIVED A RESPONSE TO A LETTER HE SENT TO THE SCIENCE COMMITTEE CONCERNING THE LIGHT POLLUTION BILL. MORT WILL BE INFORMED OF ANY MOVEMENT OF THIS BILL. THE MAY 15 HEARING DID NOT INCLUDE THE BILL

SHOW AND TELL, FRANK SPISAK SHOWED HIS NEW BINOCULAR/TRI-POD SET UP.

KIM DYER HAS MADE A BIBLIOGRAPHY OF ALL ASTRONOMY AND PHYSICS BOOKS IN THE MACOMB COM. LIBRARY, SEE KIM FOR DETAILS.

AFTER THE BREAK WE MOVED INTO THE AUDITORIUM FOR A VIDEO ON "THE POWERS OF TEN", BROUGHT IN BY MIKE O'DOWD AND A VIDEO ON ASTRO SUBJECTS BROUGHT IN BY DOUG GOUDIE

THE MEETING ENDED AT 10:05PM ★
Jun  Thu 18  7:30 pm  Meeting: Macomb Community College South Campus, Bldg. B, Room 209: Steve Greene will talk about “Constellations and Deep Sky Objects in Them”
Fri 19  8 pm-?  Observing at Stargate Observatory, rain or shine
Sat 20  2 pm-?  WAS Picnic and Star Party with overnight accommodations at Stargate Observatory. Food and drink supplied by club.
Thu 25  8:00 pm  Computer subgroup meeting at Gary Gathen’s house
Fri 26 - Sat 27  15th Annual Solstice Star Party, At Doug Bock’s Northern Cross Observatory

Jul  Thu 2   7:30 pm  Meeting: Downstairs at Cranbrook Institute of Science
Thu 16  7:30 pm  Meeting: Macomb Community College South Campus, Bldg. B, Room 209
Sat 18 - Sat 25  Nebraska Star Party
Thu 23  8:00 pm  Computer subgroup meeting at Gary Gathen’s house
Thu 23 - Sun 26  SMURFS ’98: This star party near Atlanta (west of Alpena) Features the darkest skies in Michigan’s lower peninsula. If you’re an observer, don’t miss this event!

Aug  Thu 6  7:30 pm  Meeting: Downstairs at Cranbrook Institute of Science
Fri 14  8 pm-?  Observing at Stargate Observatory, rain or shine
Sat 15  8 pm-?  Observing at Stargate Observatory, rain or shine
Thu 20  7:30 pm  Meeting: Macomb Community College South Campus, Bldg. B, Room 209
Thu 27  8:00 pm  Computer subgroup meeting at Gary Gathen’s house

Sept  Thu 3  7:30 pm  Meeting: Downstairs at Cranbrook Institute of Science
Sat 11 - Sun 13  Astrofest Star Party at Camp Shaw-Waw-Nas-See, Kankakee, Illinois
Thu 17  7:30 pm  Meeting: Macomb Community College South Campus, Bldg. B, Room 209 Dave D’Onofrio will give a talk on “Laws of Physics:...Nature’s Design or Designed by a Creator?”

Oct  Thu 1  7:30 pm  Meeting: Downstairs at Cranbrook Institute of Science: Family Night (Bring your family and friends)
Thu 15  7:30 pm  Meeting: Macomb Community College South Campus, Bldg. B, Room 209
Fri 16  6 pm-?  Observing at Stargate Observatory, rain or shine
Sat 17  6 pm-?  Observing at Stargate Observatory, rain or shine
Thu 22  8:00 pm  Computer subgroup meeting at Gary Gathen’s house

Nov  Thu 5  7:30 pm  Meeting: Downstairs at Cranbrook Institute of Science
Thu 19  7:30 pm  Meeting: Macomb Community College South Campus, Bldg. B, Room 209

Dec  Thu 5  7:30 pm  Meeting: Downstairs at Cranbrook Institute of Science
Thu 19  Awards Banquet
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Detroit, MI

Key to times:
SunRise       MoonRise
SunSet        MoonSet