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Solar System Surprise

By Dr. Tony Phillips

News flash: You may be closer to interstellar space than you previously thought.

A team of researchers led by Tom Krimigis of the Johns Hopkins University Applied Physics Laboratory announced the finding in the June 2011 issue of Nature. The complicated title of their article, "Zero outward flow velocity for plasma in a heliosheath transition layer," belies a simple conclusion: The solar system appears to be a billion or more kilometers smaller than earlier estimates.

The recalculation is prompted by data from NASA's Voyager 1 probe, now 18 billion kilometers from Earth. Voyagers 1 and 2 were designed and built and are managed by NASA's Jet Propulsion Laboratory. Aging but active, the spacecraft have been traveling toward the stars since 1977 on a heroic mission to leave the solar system and find out what lies beyond.

To accomplish their task, the Voyagers must penetrate the outer walls of the heliosphere, a great bubble of plasma and

magnetism blown in space by the solar wind. The heliosphere is so big, it contains all the planets, comets, and asteroids that orbit the sun. Indeed many astronomers hold that the heliosphere defines the boundaries of the solar system. Inside it is "home." Outside lies the Milky Way. For 30+ years, the spacecraft have been hurtling toward the transition zone. Voyager 1 is closing in.

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President's Corner

My first order of business for this month is a well deserved thank you to Doug Bauer for putting on this year's club picnic. Once again we had a great time with lots of good food and camaraderie! Doug had help and thanks need to go out to Deanne Bauer, George and Pat Korody, Lori Poremsky and Kevin Medon. I also can't overlook the head griller Logan Cobb! If you didn't make this year's picnic, you need to make it a priority for next year.

September is fast approaching and it will be a busy month.

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STAR STUFF

July 2011 - Vol. 20 No 7

STAR STUFF is published eleven times each year by:

FORD AMATEUR ASTRONOMY CLUB
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Dearborn MI 48121-7527

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SECRETARY: Doug Bauer
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Club Information:

The Ford Amateur Astronomy Club (FAAC) meets on the fourth Thursday each month, except for the combined November/December meeting on the first Thursday of December - at Henry Ford Community College Administration Services and Conference Center in Dearborn. Refer to our website for a map and directions (www.boonhill.net/faac).

The FAAC observes at Spring Mill Pond within the Island Lake State Recreation Area near Brighton, Michigan. The club maintains an after-hours permit, and observes on Friday and Saturday nights, and nights before holidays, weather permitting. The FAAC also has use a private observing site near Gregory Michigan and lake Erie Metro Park. See the FAAC Yahoo Group* for more information.

Observing schedules and additional info are available on our website, or via the FAAC Yahoo Group.* Or call the FAAC Hotline, for info and leave a message, or ask questions: 248-207-2075. or send email inquiries to fordastronomy@comcast.net.

Membership in the FAAC is open to anyone with an interest in amateur astronomy. The FAAC is an affiliate of the Ford Employees Recreation Association (F.E.R.A.). Membership fees:

Annual - New Members: \$30 (\$15 after July 1)
Annual - Renewal: \$25 (\$30 after January 31)

Membership includes the STAR STUFF newsletter, discounts on magazines, discounts at selected area equipment retailers, and after-hours access to the Island Lake observing site.

Astronomy or Sky & Telescope Magazine Discounts

Obtain the required form from the FAAC club treasurer for a \$10 discount. Send the completed form directly to the respective publisher with your subscriptions request and payment. Do not send any money directly to the FAAC for this.

Star Stuff Newsletter Submissions

Your submissions to STAR STUFF are welcome! Send your story and/or images to the editor at jenzdanowski@yahoo.com. Email text or MS Word is fine. STAR STUFF will usually go to press the weekend prior to each general meeting. Submissions received prior to the 15th can be included in that issue.

* FAAC Members are welcome to join our Ford Astronomy Club Yahoo!Group. Messages photos, files, online discussions, and more! URL: groups.yahoo.com/group/FordAstronomyClub.

This months background photos of the moon Page 1 courtesy of John Kirchoff. See more of John's photos at:

<http://www.flickr.com/photos/33926475@N06/with/4311533997/>

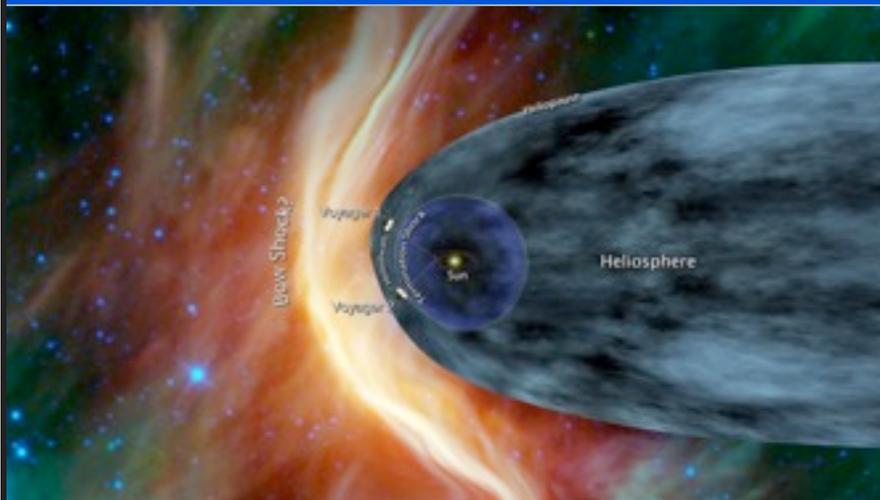
Presidents Corner

(continued from Page 1)

The 15th Annual Astronomy at the Beach will happen at Maple Beach at Kensington Metropark on Friday, September 9th and Saturday, September 10th. This year's main speaker is Dave Eicher, Editor-in-Chief of Astronomy Magazine. The month ends with the Great Lakes Star Gaze on September 22nd - 25th in Gladwin. This is always a great event with dark skies and a chance to mingle with astronomers from all over the state.



I spent the second week of August visiting my brother and his family in southern California. I bring this up because I had spent several days doing some fun astronomy things. First we took a trip to the Palomar Observatory. The first thing that struck me was the size of the building. It's huge! It has to be to house the 200" Hale Telescope. Unfortunately, there are no tours during the week so we had to content ourselves with looking through the windows from the visitor's gallery. You can get nearly the same view from their website (<http://www.astro.caltech.edu/palomar/webcam.html>) which has a live webcam view. There's also a video showing the swapping out of the prime focus instrument. Some people scurry along the floor of the observatory giving a feel to how really big this scope is.



This artist's concept shows NASA's two Voyager spacecraft exploring a turbulent region of space known as the heliosheath, the outer shell of the bubble of charged particles around our sun. Image credit: NASA/JPL-Caltech.

Solar System Surprise

(continued from Page 1)

Much of Voyager 1's long journey has been uneventful. Last year, however, things began to change. In June 2010, Voyager 1 beamed back a startling number: zero. That's the outward velocity of the solar wind where the probe is now.

"This is the first sign that the frontier is upon us," says Krimigis.

Previously, researchers thought the crossing was still years and billions of kilometers away, but a new analysis gave them second thoughts. Krimigis and colleagues combined Voyager data with previously unpublished measurements from the Cassini spacecraft. Cassini, on a mission to study Saturn, is nowhere near the edge of the solar system, but one of its instruments can detect atoms streaming into our solar system from the outside. Comparing data from the two locations, the team concluded that the edge of the heliosphere lies somewhere between 16 to 23 billion kilometers from the sun, with a best estimate of approximately 18 billion kilometers.

Because Voyager 1 is already nearly 18 billion kilometers out, it could cross into

interstellar space at any time—maybe even as you are reading this article.

"How close are we?" wonders Ed Stone, Caltech professor and principal investigator of the Voyager project since the beginning. "We don't know, but Voyager 1 speeds outward a billion miles every three years, so we may not have long to wait."

Stay tuned for the crossing.

For more about the missions of Voyager 1 and 2, see <http://voyager.jpl.nasa.gov/>. Another Voyager project scientist, Merav Opher, is the guest on the newest Space Place Live cartoon interview show for kids at <http://spaceplace.nasa.gov/space-place-live>.

This article was provided by the Jet Propulsion Laboratory, California Institute of Technology, under a contract with the National Aeronautics and Space Administration.

Treasurer's Report

August 4, 2011

By Chuck Jones

Ford Amateur Astronomy Club Balance Sheet As of August 4, 2011

	<u>Aug 4, 11</u>
ASSETS	
Current Assets	
Checking/Savings	
CD 200599272	1,053.66
CD 89265268	1,097.86
Checking	731.56
FAAC Savings	1,458.67
Petty Cash Account	85.84
Total Checking/Savings	<u>4,427.59</u>
Total Current Assets	4,427.59
Other Assets	
Equipment	1,569.97
GLAAC	2,857.69
Scholarship	245.80
Total Other Assets	<u>4,673.46</u>
TOTAL ASSETS	<u>9,101.05</u>
LIABILITIES & EQUITY	
Equity	
Opening Balance Equity	8,439.30
Retained Earnings	-276.33
Net Income	938.08
Total Equity	<u>9,101.05</u>
TOTAL LIABILITIES & EQUITY	<u>9,101.05</u>

Club Wear

To our "New and Current Members" Our club has "FAAC" Official Club Wear with our Logo Embroidered.

Anyone with an interest or need in FAAC Club Wear, I will be placing an order in the next few months, for more information please call me - Diane at 248 980-7832. The FILES section in the Yahoo group has a form noting each ITEM with PRICES. The listing name - "FAAC Club Wear" - please do not hesitate to call me.

Diane Worth

Meeting Agenda - August 25

HFCC – Berry Auditorium -Admin. Services & Conference Center <http://www.boonhill.net/faac>
5:30

Opening/Introduction/Member Observing

Main presentation:

How Average Is The Sun? Dave Bailie

Tech Talk:

Astronomy by Astromart Jim Frisbie

Club Projects/Committees/Member Support

- AATB – Sept 9th & 10th
- Sept 13th – Livonia Public Library
- Sept. 22nd – 25th – Great Lakes Star Gaze
- Open Discussion

Club Business/Secretary/Treasurer/Equipment Reports

Items For Sale

Celestron 6x30 finder scope-\$25

Starter scope (similar to the Celestron power seeker) D=60mm F=700mm with tripod, and 3 lenses-\$50

For more information on these two items, please contact Lynn Spielman at: lynns cats@wowway.com

Orion 100 mm Achromat refractor, F6, with older CG4 equatorial mount. Diagonal and finder included. Asking \$250

Miscellaneous eyepieces and filters for beginners also available. Ask for \$\$

Call Tom Blaszak at 313.585.3351.

key_string_guy@yahoo.com

Meade Lightbridge Deluxe 12" – F/5, 1524mm focal length. Purchased new last year. Perfect condition mechanically, optically and cosmetically. Big, clear deep sky views. Built-in battery powered cooling fan, two-speed Crayford focuser (1.25 / 2-inch). Easy to transport, set up collimate and use - smooth as silk. Upgraded with Bob's knobs and heavier collimation springs. Includes shroud, cover, Telrad and secondary mirror heater. Over \$1000 invested, will sell for \$650.

Contact John Johnson at jjohnsonpub@yahoo.com

or (248) 515-0014.

Astro Imaging SIG

Gordon Hansen

The April meeting was held at HFCC in the Berry Amphitheater in Dearborn

All are invited to join us in the Astro Imaging SIG meetings, to share and discuss images, experiences, and techniques.

We always have a good time, with lively discussion, and sharing of valuable information.

Next meeting is August 11th. The meeting room location – HFCC Admin. Services and Conference Center (same building), Berry Amphitheater Auditorium.

Topics invited. Pizza served.

FAAC Events 2011

Sept 9/10th - GLAAC Astronomy At The Beach

Sept 13th – Livonia Public Library

Sept. 22nd – 25th – Great Lakes Star Gaze

October 1st - Beginner's Night-Island Lake

Background Photo from Lunt Solar Scope Image taken at the Hector J Robinson Observatory, June 28, 2010

One FAAC members blog

<http://hjrobservatory.blogspot.com/>

A few updates on the observatory, quick articles and photos. I'll try to improve my writing on this blog. Also, I try to keep daily updates on this blog. - Greg Knekleian, HJRO volunteer.

Items For Sale

(continued from page 4)

MEADE Telescope and Tripod 6 years old - in excellent shape **LXD 75** - Series Schmidt - Cassegrain 8" f/10 SC-8AT (Super Coated, Autostar Guided) - Focal Length 2000 mm Telescope weight = 24 lbs - with MEADE EMC Super Multi-Coatings and with optional Ultra-High Transmission Coating Tripod weight = 45 lbs - Die cast Aluminum German-Type Equatorial Mount with Variable-Height Field Adjustments Autostar Controller guides to 30,223 objects

Includes a Sun Filter, Overnight Protective Cover, Transportation Containers. Contact phone no. 248-851-5053, e-mail robertboswell@comcast.net

Bill Beers Spring Star Party

by Jon Blum

Bill Beers is member of the Warren Astronomical Society who hosts a star party in Cadillac, Michigan, every spring and fall. He invites all members of the Ford Amateur Astronomy Club as well as Warren and other local club members. Each star party lasts a week, but most people attend on the 3-day weekend, and about 15 to 25 people usually come.

Benefits of going to this star party each May and October include dark skies far away from city light pollution, and wonderful socializing with friendly members of all of the local astronomy clubs. In addition to using your own telescope, you will enjoy marvelous views through the 22-inch Dob owned by the Warren club. For accommodations, you can camp out in the observing field or stay in a nearby motel. During the most recent event this May, FAAC members who attended were Bob MacFarland, Ellen Duncan, and Jon Blum.

If you'd like details of how you can attend future Bill Beers spring and fall star parties, email Jon Blum at vpfaac@hotmail.com.

FAAC General Meeting Minutes July 28th, 2011

By Doug Bauer, Secretary

Opening:

The meeting was called to order in the Berry Auditorium at 5:35 pm by Gordon Hansen., FAAC President. All attendees introduced themselves. There were 37 members present. Members contributed their observing experiences. Bob MacFarland reported that the Wayne State students enjoyed the observing at the Beginner's Night. Jon Blum reported that he and two other FAAC members attended the Warren Astronomical Society picnic and had a great time. Doug Bauer and Bob MacFarland attended the Seven Ponds Astronomy Club picnic and it was a good time too. Tim Campbell reported that the HJR Observatory has gotten more usage and that they imaged several objects. Gordon Hansen has completed his backyard observatory.

Main Program:

John Schroer gave his first What's Up talk. He included:

August 29 – new moon

August 6 – crescent moon, Saturn, Neptune and Jupiter begins appearing in the night sky well after mid-night

August 10 – Asteroid Vesta – 5.49 Magnitude

Morning objects: Mars, M35, NGC 2158

Evening Sky: M31, Double Cluster in Persius, Persied meteor showing near full moon, periodic comet 2009/P1 Garradd

Breaking news: a Trojan Asteroid has been discovered at one of the Earth's Lagrange Points. Bob Berta from the Warren Astronomical Society gave a presentation on the D Bar A Observatory recently completed at the D Bar A Boy Scout Camp in Metamora, Michigan. It is a 1,700 acre site that has various facilities for Boy and Girl Scouts. They have 20,000- 30,000 scouts at the site each year. The observatory: Built on an island in Trout Lake: 14 inch Celestron HD SCT, Roll off roof, Celestron CGE Pro mount. Piertech Pier: motorized to move up and

down 18 inches to allow viewing at various heights, Hyperstar capable w/ a Stellcam III video camera, 12 inch Meade Lightbridge, 3 concrete pads for additional scopes

They are looking for volunteers from the area astronomy clubs to do astronomy presentations and operate the scope for scouting events. Each volunteer can sign up for 1 or more events per year. They will provide overnight quarters for the volunteer if needed. Volunteers will be required to take an online course called Youth Protection.

If you are interested in volunteering, contact Bob Berta (Biker123@att.net). Bob will arrange an orientation for the volunteers probably next spring.

Tech Talk:

Chuck Jones gave a presentation called "Down the Rabbit Hole – My journey into the hobby of astronomy." He talked about becoming interested as a young boy in Detroit when he saw a full moon. He remembered family overnight trips to Belle Isle sleeping under the stars. He told of his experiences getting deeper into the hobby including his recent imaging efforts and his mobile observatory. He gave his 10 lessons learned and concluded with, "There is no end in the Rabbit Hole, it only gets deeper!"

It was very informative and enjoyable.

Business Meeting:

Secretary's Report as published in the July StarStuff was presented by Doug Bauer and approved. Treasurer's Report published in the July StarStuff was presented by Chuck J. via Balance and Profit & Loss. There was a discussion of whether the club should continue it's past practice of comp'ing the Officers, Webmaster, Newsletter Editor, Astro-Jeopardy person, Guest Speaker and their significant other at the Annual FAAC Banquet. A vote was held and it was agreed to continue this practice

The Detroit Science Center has a YouTube site for the Astronomy For Everyone series - look for Ford Amateur Astronomy on YouTube.

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Presidents Corner

(continued from Page 2)

On the way to Palomar we drove right passed OPT (Oceanside Photo & Telescope) where I've spent a few bucks over the internet. (By the way they give a 5% discount to astronomy club members and they donated to the D-Bar-A Observatory Bob Berta talked to us about last month.) I believe they advertise they have the biggest telescope showroom and I wasn't disappointed. I didn't count, but, they must have had 3 – 4 dozen. And yes, I did leave some money there – might as well save the shipping!

The main excuse for my trip was an un-official inter-club reach-out. My brother, Dick, is a member of the Sothern California Triumph Owners Association (SCOTA.) How is this an astronomy event? SCOTA holds an annual Shooting Star Event to view the Perseid Meteor Shower! Is that cool or what?

I rode shot-gun on Saturday, the 13th, in Dick's 1973 Triumph Stag (Ever heard of it? It's the white one in the middle Photo 1.) We caravanned to Saddleback Butte State Park east of L.A. in the Mohave Dessert. Temperature was a mere 99° F when we arrived. The only shade was the lean-tos; no trees anywhere to be seen! We proceeded to picnic on hot dogs and buffalo wings (we need to consider these for next year's club picnic!) on the BBQ with lots of sides to go along.

It got darker there about an earlier than here in Michigan so we settled down to some Perseid hunting around nine. The moon was full, obscuring all but the brightest of the meteors so counts were low. I managed three Presides and one other. One of the Presides was a good one that really flared

up just before it burned out. The max I heard was fourteen, but, he lasted till about 2:30 AM.

I started out in a lounge chair and then transitioned to my cot (dangerous observing position – sleep will get you.) Here's where observing in southern California and Michigan is really different. Would you consider spending the night on a cot with nothing but the sky above you? I woke up around 5 AM and was greeted by the Pleiades straight above me! All six of the brightest stars were clear with more around them. Can you find me in the photo? By the way – no dew on anything. The other big difference, and the reason for the cots, you don't sleep on the ground – rattlesnakes in the area!



Regardless of the type of club, a few people take the lead and make these events work. Jerie and Bob Keller put this event together. Bob Keller, Jim Kellar and Deloris Youseff did most of the cooking for both dinner on Saturday and breakfast on Sunday morning. Thanks!

I also need to thank my brother Dick and all of the other SCOTA members there for the warm welcome and great time.

Gordon Hansen

FAAC Multi-Club Picnic

by Doug Bauer



On Saturday, August 6th, FAAC had its third annual Multi-club Picnic. As I drove to Island Lake with my "Picnic in a Minivan", the skies began to darken. Almost as if we were planning an astronomy event. On the way from Troy to Island Lake, I drove through several heavy rains. However, arriving at Island Lake, the clouds lightened and the rain stopped. While driving through the park to Spring Mill, I began seeing signs for the Geurez Family Reunion and since you cannot reserve pavilions at Island Lake, I was hoping they weren't at Spring Mill Pond. Alas, they were in the pavilion. Luckily, they had a small family and we were able to pull together three or four tables in the pavilion and setup the picnic. I think the weather kept some people away, but we still had about 45 people, including several members from other clubs.

We set up two grills, one for hamburgers, salmon patties, and hotdogs and a second one for grilled corn provided by Leon Shane and Tim Campbell. We also, had some veggie burgers, but the vegetarians in the club were absent. George and Pat Korody also brought corn on the cob that we boiled in the turkey fryer filled with water. Lori Poremsky brought her kid pool to fill with ice for salads. There were a large number of delicious salads and other dishes including desserts.

This year, two younger members volunteered to do the cooking, so Cody Holoday and Logan Cobb took over for me and did an excellent job of grilling. I have included a couple of pictures of Logan manning the grill.



Everyone had a great time chatting and eating and eating some more. The weather held for the whole night. However, it never really cleared up enough for Ken Anderson to do the sky challenge contest. A few folks did set up their scopes and got views of the Moon, Saturn, the Ring Nebula, and a few bright stars, but it was too overcast for any serious observing. Additionally, the Island Lake Spring Mill Pond mosquitoes had heard about the picnic and decided to show up with their families too. As a result of these two factors, most people left before 10:00 PM.

Thank you to all who were able to attend and brought the great food!

If you couldn't attend or decided the weather was too bad, you missed a great time and we missed you too! We hope we see you at next year's Fourth Annual FAAC Multi-Club Picnic.

Thanks,

Doug Bauer

DougBauer@Comcast.Net

Hector J Robinson Update

by Greg Knekleian

We had power cut off for one night and fiber optic on the way. The demolition of the bleachers near the field will cause dust and hazards near the observatory. So we may have to cut down observing for a week or so.

I had some fun times at the observatory with visitors and of course the usual FAAC core observatory folks. Harold Thomason showed up one afternoon and brought a hydrogen alpha setup that allows us to use a 4 inch filter on the telescope and see much closer detail on the Sun. We could see a large prominence of hydrogen gas blasting off the sun. I did a few recordings on the observatory computer and took a few photos with the T1i. I have to work at processing them a bit and haven't processed them for printing yet. One interesting issue with the higher power was the presence of dust particles, they seemed to be amplified with this setup and efforts to get them to move with rotation of different optical parts, including the camera didn't seem to show where exactly they were.

PEC Correction Update

We did a Periodic Error Correction to the mount. PEC correction can improve long exposure photographs. This process was performed with a camera and other equipment George Korody brought by the observatory. The process seemed straightforward, but we did it four or five times. Finally, Art Parent and George Korody reset the PEC model and disabled the "Y axis correction" and we had pretty decent results. There's more work to do. We have some upgrades on the way, including fiber optic cable hookup that should improve our internet connection. We also have a cable show being recorded at HJRO soon for the FAAC public access cable show.

There was a lot of activity both at HJRO and away. Plenty of observing away from the observatory to distract me as well. I looked at the comet for example one night with Tim Campbell at HJRO. Two nights later I visited a friend Tony who is not a FAAC member, but lives in Dexter and shows some interest in astronomy. I spent two different nights out at my friends house, observing the comet 2009p1 Garradd. The first night of observing in Dexter with the moon out of the sky the comet looked about as bright with my 80mm Vixen binocular telescope as it did through the C14 under well lit skies.

This last month was the first time I saw the lights go out at HJRO with the new timer schedule. This allows us to notify the school ahead of time and they will leave the parking lot lights off, or a timer will cause them to shut off at midnight. When they are off, it's like 20 full moons being taken out of the sky. It improves the views to the east almost to the point of what they looked like over 30 years ago.

I took my 10 inch Newtonian out of the observatory and stored it in Dexter, at a friends house. I left it in Dexter setup and ready to roll out for observing under the darker skies out there.



After midnight, 20 parking lot lights are turned off. The old bleachers are being demolished and will be replaced. Small dot in the top of the photo is Jupiter.

AUGUST 19 - Island Lake Star Party

by Greg Knekleian

There was an outing at Island Lake August 19th. This had several astronomers from FAAC present and I mingled a bit with them, with perhaps a hundred guests viewing through telescopes, it was a big success.

I wished I had more time and spent more time talking with the FAAC astronomers last Friday, but there was so much fun stuff to do and so many visitors wanting to look through scopes. I spent a lot of time near Art Parent's 10 inch telescope which he was controlling with his laptop.

Gordon Hansen and Jon Blum gave a brief explanation on some astronomy topics.

Kids seemed to swarm toward scopes, very excited and wanting to get some eyepiece time. We had mixed viewing with a lot of clear patches of sky and some thin clouds and haze. We had several telescopes present. Some of the bigger rigs included two 14 inch SCT telescopes and a Meade 16 inch Truss Newtonian.

Larry Hoffman had a new mount and setup a small Williams 90mm wide field refractor on it.

Jon Blum had a special chair that swivels and holds binoculars up for viewing. Many in the crowd tried the chair and liked it.

There were of course many objects to see. I kept my binoculars on the double cluster for much of the night. Visitors were able to see Saturn, Jupiter, the Ring Nebula, and many other objects. Later in the evening the few remaining FAAC astronomers saw the moon and Jupiter as they rose up through misty clouds. Art Parent, tried an inexpensive video camera at the meet, this was later in the night and it worked out well with the moon and we hope to use that or the Stellacam for a video display of the moon at Kensington Metro Park's Astronomy at the Beach.

Many also saw the ISS flyby which happened more than once. Some FAAC members stayed until 1AM. The FAAC Star Party was a big hit with park visitors, I can hardly wait for next year.

A bunch of kids, answer questions about "the planets" and then line up in position to show everyone how the solar system is arranged.



Additional photos



A bunch of kids, answer questions about “the planets” and then line up in position to show everyone how the solar system is arranged.

Art Parent (above) Looks through his Meade SCT at Island Lake, August 19, 2011 | astronomy star party. Faint clouds and haze prevented perfect skies.

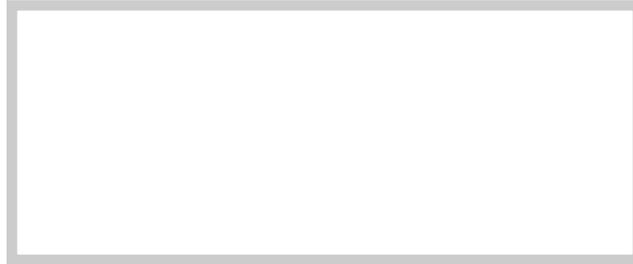
The skyline at a Dexter location with my binoculars aiming toward a comet. (Top Right)

I'm looking at Comet 2009PI Garradd when it was fairly close to M15. (Right)

Lower left, Jupiter - single photo no stacking. Canon t1i through eyepiece of C14, handheld, afocal, HJRO.



Ford Amateur Astronomy Club
Star Stuff Newsletter
P.O. Box 7527
Dearborn MI 48121-7527



Projects and Events:

August 6th – FAAC Multi-Club Picnic and Beginner’s Night at 5:00 PM at the Island Lake Recreation Area/Spring Mill Pond

August 19th - - Detroit Children’s Museum – 6134 Second Avenue – Detroit – need volunteers to bring scopes with solar filters or Solar Scopes – from 5:00 PM until 9:00 PM – need volunteers to bring scopes to view the Sun.

August 19th – Island Lake Exploring Nature series at Island Lake Spring Mill pond beginning at 8:00 PM

Sept 9/10 - GLAAC Astronomy At The Beach

The Club Scope is available for loan out to members. It is booked through July. Let Gordon Hansen know if you would like to reserve it.

The meeting was adjourned at 7:30pm.