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A NOTE FROM PRESIDENT TOM WEILAND

What a great turnout we had for our Venus Transit event. I had ample opportunity that day to interact with our guests. Many were impressed with the variety and number of telescopes that were available; from our low tech sun funnels to our high powered scopes and electronics. Numerous individuals expressed their appreciation for the opportunity to view the historic event. I am sure those of you monitoring telescopes experienced the same awe and appreciation.

I enjoy looking at celestial objects, but I love sharing the experience with those who have never had the opportunity.....I know there are others who feel the same way. This event provided us with many opportunities to share. We definitely had people attending who are regular visitors to our public observation sessions, but we also had many guests who were, as a result of the rarity of this event, new to the experience. I hope our efforts to reach out in this instance will reap the benefit of encouraging many of them to return to one of our regular monthly viewing sessions.

It took a lot of people to make this a successful event.

We owe a big thanks to Angela Funk and her husband Eric for the extra effort they made to assure the success of this event. Angela was invaluable when it came to suggestions about dealing with potential large crowds and providing support for our event. Eric, as our people mover driver, provided easy access to those who weren't up for the walk from the remote parking lot, or who just wanted the additional experience of riding the wagon. Thanks also goes out to several SGNC volunteers who were available to assist with parking, greeting guests, and directing people around the site. We are fortunate that we have such a good working relationship with SGNC.

Thanks again to Lee Green and John Werner, my fellow committee members. Thanks also to everyone who spread the message and brought out friends and family. Finally, thanks to all of the TCAA members who brought cookies, set up scopes, monitors, tents and tables, hauled out electronics and made sure that our guests had great views and an overall enjoyable experience.

I really think we continue to improve our standing with the public when it comes to providing quality presentations and enjoyable viewing opportunities, and I just want to acknowledge the ongoing effort that it takes from everyone to make that happen. Thanks again!

NEXT POS JULY 21st

The fifth public observing session of 2012 will take place on July 21st at Sugar Grove Nature Center. The program will start at 8:30 p.m. with Carl Wenning giving a talk titled, "Asteroids, Meteors, and Meteorites." The talk will run for approximately 20-30 minutes, and will focus on these smaller denizens of the solar system. It will be followed by a brief laser-mediated constellation tour. Subsequent to the sky lecture, members of the general public will be invited to view through a variety of telescopes set up for their viewing pleasure.

Carl's talk hopefully will feature a meteorite that came from an observed fall in Iowa several years ago. The meteorite is a carbonaceous chondrite that shows a beautiful fusion crust that resulted from melting and ablation when the meteoroid passed through the Earth's atmosphere as a meteorite. Due to the value of this specimen, Carl is seeking the assistance of two TCAA members who will serve as a "security detail" to keep an eye on the meteorite during its public display. Please let Carl know if you are willing to assist with this important work.

Recall that all POSs are on Saturday evenings, and this year feature a nearly moonless sky most evenings. Additional prominent sky objects such as planets, nebulae, star clusters, and galaxies will be viewed when visible. The schedule for the rest of the year can be found below. Note that Lee Green has graciously agreed to coordinate the October 13th session. The 2012 POS program brochure is available on the TCAA website at <http://www.tcaa.us/>.

Date (Sat.)	Time	Topic	Coordinator
Aug 18	8:00 PM ~ 10:00 PM	Clusters and Nebulas of the Milky Way	John Werner
Sep 15	7:30 PM ~ 9:30 PM	Stories of the Constellations	Eve Pouliot
Oct 13	7:00 PM ~ 9:00 PM	Uranus and Neptune	Lee Green

The *OBSERVER* is a monthly publication of the Twin City Amateur Astronomers, Inc., a registered 501 (c) (3) non-profit educational organization of amateur astronomers interested in studying astronomy and sharing their hobby with the public.

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Submission deadline is the first of each month.

Membership Dues

Individual Adult/Family \$40
Full-time Student/Senior \$25
Electronic Newsletter \$25

To join the TCAA, send your name, contact info and dues payment to
Duane Yockey
508 Normal Avenue
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IWU TELESCOPE REMOVED FROM MARK EVANS OBSERVATORY

By John Werner

The last official activity for the IWU Mark Evans Observatory telescope was to host viewing of the Venus Transit, where scores of students, faculty, and public participated. Dan Miller, Chris Miller, and John Werner met with professors Linda French and Lou Detweiler on June 11th to review the technical details of the telescope operation and then proceeded to dismantle the telescope into its critical components. Lou was very helpful in making suggestions regarding how to proceed. All of the key components were heavy, with the base component weighing over 250 lbs (estimated, as it took three men to lift). The power supply and right ascension drive are in good operational condition. The declination drive does not operate. The board [controlling the declination motor] is not available for replacement. Many spare parts were provided. The original drive motors were replaced some time ago due to too much "slop" in the gearing. Chris Miller photo documented the operation, circuit board connections, and component orientations.

The telescope was originally placed through the dome as one mammoth piece, using a crane. The telescope was never dismantled to the extent executed in this project. John was familiar with the operation of a material handler and arranged for a thirty-six foot reach machine to be delivered to the site on June 12th.

Present for the removal of the components through the dome opening were Dan, John, Chris Miller, John's son Joel, Lou, Linda, IWU football team members and coach, and a physical plant representative. The operation to place the pallet forks into the dome opening was delicate and tense. John operated the material handler and used a portable radio to stay in constant contact with Dan. Football members were very helpful in placing the first two heavy components on the pallet and then later lifting to the trailer for transport. Dan chained up the 250 lb heaviest component for the last step to finish the operation. Everyone's heart was pounding as John slowly removed the last component out of the dome slit, as it dangled in the air. Everyone was relieved to see no damage to building, telescope components, or humans as the last component was safely removed.

I'm sure Lou, Linda, and those present were sad to see an end to an era but are looking forward to a new era where current telescope tracking technology and optics will enhance the education for many current and future students and the public.

As for the old telescope: A possible bright future is in the planning phase. Dan envisions a great student project to renovate the telescope for potential future use at Millikin University.

CONSTELLATION OF THE MONTH: CANES VENATICI—THE HUNTING DOGS

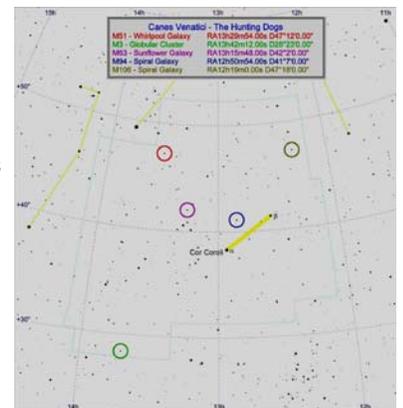
Canes Venatici is a moderate-sized constellation that is visible in the spring and summer months. Located beneath the tail of Ursa Major and west of Bootes, Canes Venatici is far removed from the galactic plane of the Milky Way.

In mythology, the Hunting Dogs are named Chara and Asterion and are held on a leash by Bootes in his role as Bear Driver. Bootes and Canes Venatici chase the bears Ursa Major and Ursa Minor around the celestial pole.

Astronomically, Canes Venatici is the 38th largest constellation covering 465 square degrees and is the 59th brightest constellation. It reaches opposition on April 7.

Only one star in Canes Venatici is named. The alpha star is called Cor Coroli and this is a beautiful double star that are blue and orange. The name Cor Coroli was given by refers to the "heart of Charles" after King Charles II of England.

Canes Venatici is home to a large number of galaxies and other deep-space objects due to its position away from the Milky Way. Five Messier objects are located here. M3 is a large, bright globular cluster near the border with Coma Berenices. M51, the Whirlpool Galaxy is a face-on spiral galaxy with its near-perfect symmetry which, along with the companion irregular galaxy NGC 5195, make one of the most photographed and recognizable objects in the sky. M63, the Sunflower Galaxy, has a bright central core with many small spiral arms which give the impression of the face of the sunflower. M94 is another spiral galaxy with a compact core. M106 is a large bright galaxy which is also a strong radio source.



AL OBSERVING PROGRAM STANDINGS—QUARTERLY REPORT

Below is a listing of the status of active TCAA observers pursuing AL observing programs reported to Carl Wenning as of June 30th.

- ☆ William Carney continued working on the AL's telescopic double star program having reported a total of 92 binaries by May 20th. By May 30th William had observed 81 binocular double stars.
- ☆ Carl Wenning did a quick recount of his Herschel II objects during April and discovered much to his chagrin that he had observed only 283 objects, and not the 363 he reported back in March. He corrected that number. In April, May, and June he observed an additional 104 Herschel II objects raising his corrected count to 387 – only 13 observations from completing the entire observing program.
- ☆ Lee Green completed his observations for the Deep Sky Binocular and Open Clusters clubs, and he forwarded his observing records to ALCor Duane Yockey at the May board meeting. Duane indicated that he had received Lee's certificate for the third level award in the Outreach Club. Lee has now completed 10 AL clubs.
- ☆ Dave Osenga has been busy making observations as well. On June 24th he reported that he has completed the entire Messier program of 110 objects. He also completed an additional binocular Messier observation bringing his total to 57. Of these objects, 42 were "easy", 10 were "tough", and 5 were "challenge" objects.

If you would like to have your information included in next October's listing, be certain to forward your observing totals to Carl by the end of September. Be certain to get your completed observing records to our ALCor, Duane Yockey, as soon as an observing program is complete so that you might be appropriately recognized on a timely basis. Our next award presentation will be at the summer picnic.

Astronomical League Observing Club	Brian Barling	William Carney	Mark Honzell	Lee Green	Dave Osenga	Carl Wenning	Duane Yockey
Asteroid Club Reg25/Gold100		(56)					
Binocular Double Star 120		81					
Binocular Messier 50		(100)		(72)	57*	(78)	49
Caldwell 70/109						34	
Comet Club Silver12/Gold30		(31)				4	
Dark Nebula Imaging 70				63			
Deep Sky Binocular 60		(60)		60		(60)	
Double Star Club 100	29	42	47	(100)		(100)	
Galileo 13		2					
Globular Cluster Club 50				(55)		(65)	
Herschel Club 400	288	(400)		(400)		(400)	
Herschel II Club 400						387	
Lunar Club 100	(100)	(100)		(100)	(100)	(100)	
Lunar II Club 100		38					
Open Cluster Club B100/25//A125/50				100		2	
Planetary Nebula Club B60/A110		1				(103)*	
S. Skies Binocular 50		5			25	(50)	(50)
S. Sky Telescope 50						(52)	(50)
Telescope Messier Pro70/Hon110	(110)	(110)	76	(110)	110**	(110)	31
Master Observer (10 clubs)	2	8		7	2	(10)	2
Urban Club 100		(100)		(100)		(100)	
Outreach Award B10/S60/M160				(*, **), ***		(*, **, ***)	

* Program or first award level now complete. ** Second award level now complete. *** Third award level now complete. AL recognition (certificate and/or pin) will be given at the next general membership meeting if available. Numbers in parentheses (#) indicate that the associated pin and/or certificate has been conferred on the recipient. Awards are conferred during the summer picnic and the February Annual Meeting.



REPORT ON THE VENUS TRANSIT EVENT

By Tom Weiland

Although the clouds hampered our telescope viewing early in the afternoon [of June 5th] as we were setting up for this event, the skies eventually cleared and provided our guests with excellent views of Venus as it made its way across the Sun. Estimates provided by SGNC staff placed the number of people enjoying the event at between 400 and 500, with many families in attendance.

The variety of scopes and methods available for viewing was just amazing – from low-tech sun funnels to high tech telescopes providing remote viewing on a large screen TV, camera views on computers and monitors, as well as exceptional eyepiece views. We had sixteen telescopes in multiple configurations and many members in attendance. At one time or another we had at least 21 members attending, with many monitoring scopes and providing answers to questions about the transit and a myriad of other astronomical topics.

John Werner's excellent presentations were well received and it appeared that the coloring activity and commemorative certificates (many additional copies were made of both) as well as the solar system walk were also appreciated. If the number of times the drinks and cookies/snacks were replenished is any indication, then the refreshments were also a welcome treat (thanks to everyone who brought cookies).

Thanks go out to EVERYONE who made this event the huge success that it was... there were many of you. Thanks to everyone who brought scopes or binoculars and other special equipment for viewing. Special thanks goes to the planning committee for this event - Tom Weiland, Lee Green and John Werner. Thanks also to Carolyn Weiland for coordinating the refreshments. Angela Funk provided invaluable suggestions that made things run more smoothly, and her husband Eric graciously volunteered to drive the tractor-pulled shuttle to and from the remote parking area. Thanks also to SGNC staff member Randall Carriger for his assistance, and the SGNC volunteers who helped coordinate parking.

Hopefully this successful outreach will encourage many people to return for one of our remaining Public Observation Sessions.

ASTROBITS

- ★ Did anyone notice that Carl Wenning was quoted in the June issue of *Astronomy* magazine? Senior editor Michael Bakich quoted Carl in the article, "Is telescope making dead?" See page 60.
- ★ ALCon 2012 is being hosted by the Chicago Astronomical Society from July 4-7. Word has it that several of our members will be in attendance. Watch *The OBSERVER* next month for reports.
- ★ The next TCAA Board of Directors meeting will be held on July 10th at 6:30 p.m., ostensibly at the offices of Lewis, Yockey, & Brown in downtown Bloomington. Confer with a Board member or club officer to confirm the time and location if you'd like to attend this meeting.
- ★ The Illinois Dark Skies Star Party, hosted annually by the Sangamon Astronomical Society of Springfield, will take place October 11-14 at Jim Edgar Panther Creek State Fish & Wildlife Area. You may register online or pay upon arrival. Check out the star party website for details at <http://sas-sky.org/>
- ★ A short article about expansion projects at Sugar Grove Nature Center appeared online at Pantagraph.com on the evening of June 30th, and will likely appear in printed form on Sunday, July 1st. The article shows a misdated and out-of-date photograph of the SGO much to the chagrin of more than one TCAA member.



JUNE EDUCATION AND PUBLIC OUTREACH

The traditional summer break began with a “bang” as 400-500 members of the general public joined TCAAers for viewing the transit of Venus. Complete details about this event can be found in the previous article. Three cheers and a tip ‘o the hat to Tom and Carolyn Weiland, Lee Green, and John Werner who organized this event! The great turnout was undoubtedly enhanced by the excellent article about the transit provided by Tom and which served as the basis of a front-page article in the *Pantagraph* on June 2nd. Carl Wenning’s appearance on the WGLT radio show “Uncommon Knowledge” played in the days before the event might also have helped with the turn out. (Tom Willmitch at the ISU Planetarium ran a concurrent transit viewing session on the ISU campus and had a turn out of 200-300 viewers according to a *Pantagraph* article the day after the transit.)

The fourth regularly scheduled 2012 public observing session at SGNC was cancelled on June 16th due to an overcast sky. Nonetheless, Carl Wenning, Tom Weiland, Bob Finnigan, and Bob Hoy were on hand starting around 8:30 p.m. to greet anyone who showed up despite the threatening weather conditions. Twelve people did, including one individual who brought with him a homebuilt 10” Dobsonian telescope. Despite the event being cancelled, Bob F. gave tours of the SGO and Carl gave two 5-minute talks titled “Arc to Arcturus and Speed to Spica”. Carl’s talk focused on constellation finding with the use of a star map. The second such talk was interrupted first by a raccoon and then by an intense approaching thunderstorm, and everyone high tailed it out of there by 9:15 p.m.

The TCAA was asked to participate in the June 23rd Great American Campout at SGNC, but our participation was nearly nullified by the presence of an overcast sky. For the last several years, the TCAA has provided casual telescope viewing during the evening for those several dozen or so who were interested. This year there were over 100 people camping on the grounds. Not one to disappoint, Bob F. “showed us how to hold our end of the event with style” according to Lee Green. “Arriving during the afternoon, Bob opened the observatory for touring and set up a computer that was showing the many astro-images taken over the last few years. Bob reported that many of the campers came around throughout the day and were impressed by the facility and amazed at the images we took.” Lee and Paul Pouliot were present for the evening session in spite of the cloudy conditions and assisted Bob in talking with some of the 75 campers who came through. As Lee stated later, “Thanks Bob! You did an outstanding job of making us look good!”

HOW TIME FLIES

TCAA Historian Carl Wenning provides monthly updates about the history of the club going back to intervals of 50, 25, and 10 years. Details about all mentioned events will be found in either the club history (<http://www.tcaa.us/History.aspx>) or in *The OBSERVER* archive found on the club’s web site (<http://www.tcaa.us/Observer.aspx>).

50 Years Ago

July 1962 – Club members reported on various trips – Dave Williams reported having visited a 60ft radio dish in Maryland and Weldon Schuette having observed a satellite launch from Florida.

25 Years Ago

July 1987 – The July club meeting was held at the ISU Planetarium where Carl Wenning presented the children’s program “Adventures Along the Spectrum.” Sharon MacDonald followed up with a lecture about the current evening sky. The club business meeting ensued with a planning discussion dealing with ARC ‘87 – the Astronomy Rendezvous and Conference.

10 Years Ago

July 2002 – The club held its traditional summer picnic this month. The LX200 mount has been returned from Meade following repair. Meetings are being held “as usual” at the ISU Planetarium on the second Monday of each month.

MONTHLY REFLECTIONS

By Carl J. Wenning

For me, June 2012 is a month to remember. The transit of Venus on the 5th was a great experience. This was icing on the cake for me as far as solar viewing is concerned given my observation of the annular eclipse of the sun as seen from Page, AZ, on May 20th. On that day Venus was clearly evident above the sun near the time of maximum eclipse. Several of us observers were certain that Venus did not appear as a point of light but, rather, as a somewhat linear object. The crescent of Venus was not distinctly visible due to the small size of the image presented. How rewarding it was to see Venus against the face of the sun just over two weeks later.

On Thursday, June 7th, I was finally able to get in some nighttime observing for the first time in many weeks. The moon was approaching 3rd quarter phase wouldn't rise until around 11:30 p.m. and so I decided to go observing. Despite the 2-hr twilight period, I was able to observe 38 NCG objects prior to departing shortly after moonrise. William and Bob were there, as were plenty of coyotes and raccoons.

The next evening, June 8th, started out with plenty of wispy clouds spread across the sky. Shortly before midnight, the sky cleared enough to begin serious work on the Herschel II observing program. While waiting for the sky to clear, I had the pleasure of meeting with a new amateur astronomer, Jesse Barr of Normal, who had set up earlier that evening in the hopes of viewing celestial objects. Jesse was there with his new 8-inch Dobson telescope and picked off M57 and M80 despite the presence of the thin layer of clouds. We did spend some time taking a tour of representative celestial objects using my CPC 11" telescope just so he had an idea of what to expect.

Starting at around 11:45 p.m., I turned my hand to a series of NGC objects in the constellation of Boötes. Between then and moonrise, I was able to observe another 12 Herschel II observing program galaxies. I have only 15 objects to go before completing this program. Unfortunately, most of the remaining unobserved objects are now in the morning sky and it probably will take several more months before I get to them unless I'm willing to go out observing between midnight and say 4 a.m.

An interesting opportunity appears to have resulted from a brief observing session that took place on Monday, June 18th at SGNC. Three in-service high school physics teachers who were attending one of my summer workshops visited Bob Finnigan under the dome of SGO and one of them, Peggy Piper – a key holder at Yerkes Observatory – invited Bob and others of the club to visit Williams Bay, Wisconsin, to assist with teacher-oriented observing activities there. Peggy related some interesting stories about her time and the activities there, and explained the need for our assistance. I am sure that astronomy club members would be interested in. More information will be made available as details are worked out.

Bob, Jeff Benway, and I went observing at SGNC on Thursday, June 21st. (I understand, that William Carney was also observing at that time somewhere near the tree line.) After helping Jeff to learn more about using his 8-inch telescope, we moved on to viewing with my 11-inch Celestron. We observe from roughly 10:30 until a little after midnight. We observed many of the standard showcase objects, and I had an opportunity to observe two more Herschel club objects as well.

True to my promise to Jeff to spend some time viewing the sky with my 18-inch Obsession telescope, we observed from SGNC the next night from approximately 10:30 p.m. until around 12:30 a.m. Jeff became very proficient with the use of the telescope's "push to" encoder system and found more than a dozen prominent Messier objects much to his delight. All observers who took time to view through the telescope (Jeff, Tony Cellini, Bob Finnigan, Larry Leetzow, Brian Barling, and myself) were impressed by the images provided. For instance, the spiral features in M51 – the Whirlpool galaxy – were obvious. Unfortunately, William Carney was again viewing from the tree line north of SGO and did not have a chance to see what others saw. I do believe that with the viewing successes experienced this night that the 18" Obsession will be making more appearances at SGNC despite the additional time and effort required to transport it and set it up.

With the incredible string of dry weather, access to the sky has been much better than usual this spring. Despite the waxing crescent moon, I visited SGO on June 25th and watched as Bob F. and Tony C. secured an image of IC 2574 for me. IC 2574 is a dwarf irregular galaxy in Ursa Major discovered in 1898 by Edwin F. Coddington (1870-1950), at that time a graduate student in astronomy at my Alma Mater, The Ohio Agricultural and Mechanical College (the original name of Ohio State). "Coddington's Nebula" appeared in *Astronomy Picture of the Day* on June 22nd, and I wanted to "see" this object for myself. I was able to do so thanks to Bob on Tony on the 141st anniversary of Coddington's birth. Coddington is mentioned in my article *Emerson McMillin and His Astronomical Observatory* (see: <http://goo.gl/4qShr>).

TCAA Treasurer's Report – June 2012

OPERATING FUND BALANCE – May 31, 2012 - \$ 1,190.27

Income

Robert Hoy (Senior Dues) - \$ 26.00

J.C. Lementec (Dues) - \$ 41.00

Expenses

LYB Inc. (Observer copies & postage) - \$ 25.00

Astronomical League. (Dues) - \$ 180.00

PayPal (Robert Hoy fee) - \$ 0.83

PayPal (J.C. Lementec fee) - \$ 1.20

OPERATING FUND BALANCE – June 30, 2012 - \$ 1,050.24

OBSERVATORY FUND BALANCE – May 31, 2012 - \$ 3,004.91

Income

Roanoke Benson H.S. (donation) - \$ 20.00

Expenses

None! - \$ 0.00

OBSERVATORY FUND BALANCE – June 30, 2012 - \$ 3,024.91

TOTAL TCAA FUNDS – June 30, 2012 - \$ 4,075.15

Respectfully submitted,

L. Duane Yockey, Treasurer

PSO AND OTHER MEO UPDATES

On June 11th, SGNC director Angela Funk working with George Farnsworth, Bob Finnigan, and Carl Wenning, submitted a land use proposal with the McLean County Zoning Board seeking approval for construction of the proposed "Prairie Sky Observatory". As Angela noted a day later, "They were very complimentary of the packet we provided and were generally supporting of our endeavors. The zoning board hearing is on July 3rd at 7:10 p.m." The application fee for the special use was permit was \$225, and this was paid for with an initial \$1,000 donation to SGNC on behalf of the observatory.

Bob has arranged for a complete redrawing of architectural plans with an Illinois architect who will be able to "seal" or "stamp" the drawings required. Bob and Carl have been able to obtain an additional drawing for the observing room and pictures of the motor and track system from Backyard Observatories of Ohio to go along with the original plans. Bob has ordered the rollers for the roll-off-roof assembly and these will be paid for with funds provided to SGNC as well. The site for the observatory – at least for the time being – appears to be to the north-northwest of the storage barn in the general area of the gazebo.

During early June, IWU's Dr. Linda French informed the TCAA that she had received the funding and a "go ahead" for updating the Mark Evans Observatory (MEO). In agreement with decisions made by the Board of Directors during their December 2011 and May 2012 meetings, the TCAA will sell IWU its "gently used" CGE-Pro mount, 11" Celestron OTA, QSI 583c camera, and Lodestar guider for a total of \$9,600. Carl Wenning, Bob Finnigan, and perhaps other TCAA members working with a machinist will install these items in MEO some time after August 7th. As mentioned in the article by John Werner found elsewhere in this issue of *The OBSERVER*, the 16-inch aperture telescope was removed from MEO on June 11th clearing the way for the installation of a "gently used" 11" telescope and mount to be sold to IWU by the TCAA.

On Friday, June 22nd, President Tom Weiland signed a memorandum of agreement with Illinois Wesleyan University for the sale of the TCAA's Celestron 11" OTA, its CGE-Pro telescope mount, the QSI 583 color astronomical camera, and a Lodestar guider. The club will install the telescope and mount in MEO, and see to its polar alignment. Bob Finnigan will then provide limited instruction to help IWU faculty, staff, and students come up to speed with the use of the new equipment. IWU will arrange with a third party (ostensibly the ISU Physics Department's machinist Jim Dunham) to match the CGE-Pro mount to MEO's existing pier.

MISSING OUT ON TCAA ACTIVITIES & EVENTS?

If you are missing out on club activities or celestial events, be certain to join the TCAA listserv. Many activities are planned at the last minute, and announced only hours in advance through the club's listserv. Reminders about celestial events are also broadcast to the membership through the club's listserv. To join this free service by Yahoo, send a blank email to TCAA-subscribe@yahoogroups.com. Unsubscribing is just as easy. To unsubscribe, just send a blank email to TCAA-unsubscribe@yahoogroups.com.

To keep up to date on celestial events not described in *The OBSERVER* or addressed in the listserv, visit Carl Wenning's observing page at www.phy.ilstu.edu/~wenning/observing_page.htm. It has been recently updated to include an extended sky calendar of events as well as additional space weather and satellite viewing links.

The OBSERVER

Newsletter of the TCAA, Inc.

Erin Estabrook, Editor
314 Covey Court
Normal, IL 61761

Are your dues due?



The Dues Blues?

If you see a check in the box above, it means your dues are due. To retain membership, please send your dues renewal to our esteemed Treasurer:

**Duane Yockey
508 Normal Avenue
Normal, IL 61761**