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PRESIDENT'S MESSAGE: 2007 REVIEW

By Lee Green

With the end of 2007 quickly approaching, it is a good time to reflect this year's activities.

We have had a very busy and successful year, and our calendar for 2008 is already scheduled for a number of events.

Our public outreach efforts have been fun and were well attended. We had many public, members-only and private observing sessions—some with up to 7 telescopes in action. We performed a wide variety of other activities including the Adult Education course, special events at the Bloomington Public Library, Astronomy Day, AutumnFest and the Astronomy Jamboree, not to mention the field trips and star parties. The Lincoln Courier newspaper ran a beautiful full-page spread about us.

We achieved several important milestones this year. We completed improvements and repairs to the observatory and

had our telescope repaired and refurbished. We secured our schedule to host the 2010 NCRAL conference and have started planning for the event. We were accepted into the NASA Night Sky Network, and we will be supplementing our public sessions with materials from that program. We have established plans to expand and increase our outreach activities next year with a few new programs.

Many members have made solid progress towards achieving their Astronomy League observing club certifications, and we have all spent countless hours learning about astronomy and enjoying our shared love of the night sky. Thank you and congratulations on helping us have a stellar 2007.

I hope you all have healthy, happy and wonder-filled holidays.

SATURNALIA PARTY AT SGNC ON SATURDAY, DECEMBER 8TH

The "traditional" TCAA Saturnalia party will be held at Sugar Grove Nature Center on Saturday, December 8th, from 7 to 11 p.m. This event coincides with the December members-only observing session, and the Sugar Grove Observatory will be open the whole evening if the sky is clear. This is a great opportunity to meet club members and get in a bit of observing as well.

While turnouts in the past have been small for a club of our size, the fun and frivolity have not. This year the event will be punctuated with a series of short "games" (similar to "Name that Observatory" at the June picnic) for those in attendance. Don't be surprised if you are requested to "name that object" or "identify that astronomer" or "name that constellation."

As in the past, members are requested to bring a treat to share. In the event of inclement weather, contact Carl Wenning through his cell phone at (309) 830-4085 to determine if the event is still a "go."

TCAA BOARD MEETING MINUTES

November 12, 2007

Lewis, Yockey & Brown, Inc.

President Lee Green called the meeting to order at 6:35 pm. Also in attendance were Duane Yockey, William Carney, Mike Rogers, Dan Miller, and Carl Wenning. The following calendar of events was reviewed:

- Nov 14, How to Buy a Telescope, Bloomington Public Library, 7-8 p.m., Mike
- Nov 16, Pontiac High School Observing Session, 7-8 p.m., Carl
- Nov 28, Ed Duran observing session, SGNC, 7 p.m., Dan, William and Lee
- Dec 8, Saturnalia Holiday Party, SGNC, 7-11 p.m., Carl, coordinator
- Dec 11, Joe Ferguson observing session, 6:30-7:30

p.m., SCNC, 150 kids, Bloomington Middle School

- Jan 5, 12, 17, and 24, Night Sky Watch adult education, HCC, Carl
- Jan 21, Dan and Lee will arrange for a Night Sky Network presentation (Astronomy for Kids) at Bloomington Public Library from 10 a.m.-12 p.m.
- Feb 19, Steve Sewell - State Farm Luncheon Talk, Dan, John, Lee, Dave?
- Mar 17-18 (?) field trip to Greenbank, WV, National Radio Astronomy Observatory to use 40-foot radio telescope, Dan

It was agreed that the following Sidewalk Amateur As-

(Continued on page 2)

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
Normal, IL 61761

TCAA BOARD MEETING MINUTES (CONT.)

(Continued from page 1)

tronomy events would be arranged: (1) the apparition of Comet Holmes, (2) the opposition of Mars, Saturday, December 29, and (3) total lunar eclipse, Wednesday, February 20th, from 7:43-11:09 p.m. Carl will arrange these events, and will attempt to use the parking lot just outside the Challenger Learning Center at the Central Illinois Regional Airport. Mike will attempt to arrange a "How to Use Your Telescope" talk for Bloomington Public Library, during January.

Lee summarized the recent accomplishments of the TCAA: joining the NASA Night Sky Network, participating in the DAAC Astronomy Jamboree and the SGNC Autumn Fest, the return of the Meade 12-inch LX200, and observatory work completed by William. The latter item included repair of the electronic focuser and repair of cracks in the siding of the SGO. William will be contacting the SGNC about re-siding the observatory some time next summer. The following old business was then addressed:

- The date for the Annual Meeting tentatively has been set for Saturday, February 16th, in ISU's Turner Hall (room 102). Lee and John will serve as speakers for this event and will focus on CCD imaging.
- Dan will help William move shelving materials at SGNC so that William can build additional shelving.
- Lee Green will be in Plainfield, IL, soon and will pick up repair materials for the SGO dome: an "eye" that fits the crank hook, a handle, and the corresponding pin. Lee was authorized to spend the money required for these materials.
- Carl was asked to put a "family friendly" statement into the draft 2008 POS brochure.
- No progress has been made on updating the TCAA

Web site.

- No progress has been made on writing a request for a logo competition; Mike agreed to do this.
- It was agreed that temporary membership cards (with member name, expiration date, and current logo) will be prepared for Board members and SGO key holders. They will be provided to others upon request. Mike will see to this.
- Carl reviewed the work of the NCRAL planning meeting. The Board agreed to a "Generations" historical theme, but the title should include a clarifying subtitle.
- Carl reviewed the Night Sky Watch adult education program to be held at HCC on Saturdays in January.
- Lee thanked Carl for all his work assembling nearly all the content of *THE OBSERVER* during the past few months.
- The Board will complete a "goals assessment" related to the 5-year plan as homework; Carl will send Board members and key holders an electronic form to complete and return for tabulation.

The following new business was addressed:

- Lee has called the Hahn Winery and will attempt to arrange a joint PAS-TCAA all-night observing session on Saturday, May 31st. This will coincide with our MOOS.
 - Dan mentioned a possible fundraiser – a summer 2008 trip to Peru sponsored by Millikin University – possibly the first week of June. More details as they become available.
 - The next meeting of the Board will be on Tuesday, January 15th, at 6:30 p.m. at LYB, Inc.
- The meeting was adjourned at 8:17 p.m.

Carl Wenning, Secretary

LAST CHANCE TO REGISTER FOR NIGHT SKY WATCH

The registration deadline for *Night Sky Watch* is December 15th for the TCAA's adult education program offered through Heartland Community College. *Night Sky Watch* (SCIENCE 1034, Course Code: 5092), led by former ISU Planetarium Director Carl Wenning (1978-2001), will feature two classroom presentations, one visit to the ISU Planetarium, and an optional field trip to Sugar Grove Observatory.

The sessions will be held each Saturday from January 5 through January 26, 2008, from 7 to 9 p.m. each night. The first two classes will be held in HCC CCB Room 2401. The cost for this course is \$60 per person, and the fee includes materials (but not transportation).

The focus of this short course will be on the denizens of the night sky – moon, planets, comets, asteroids, stars, nebulas, clusters, and galaxies – and how to find and observe them using binoculars and telescopes.

You may register online anytime at www.heartland.edu/communityEd or by phone (with credit or debit card) by calling (309) 268-8160, Monday through Friday, 8 a.m. to 4:30 p.m. Advance registration is required. No walk-ins are permitted.

HISTORY OF THE TCAA: PART 6

Beginning with the article, "The Origin of the Twin City Amateur Astronomers" in the May 2007 issue of The OBSERVER, TCAA Historian Carl Wenning began chronicling the history of the club. He will continue this series with the 50th anniversary of the club in 2010.

Years of Transition

1973-1978

Though the historical record is incomplete through 1974 due to the loss of important meeting minutes (and without the second series of newsletters appearing until 1975), the flow of club history becomes clearer with the appearance of several critical newspaper articles in 1973 and afterwards. The one item chronicled so well was the arrival of a club member by the name of Robert Finnigan. His appearance coincided with the apparition of the famed Comet Kohoutek. A full page of the December 1, 1973, *Pantagraph* was dedicated to these two luminaries. Comet Kohoutek was described aptly by Dr. William Kubinec, an Illinois Wesleyan faculty member and member of the TCAA from 1973 through 1975. Bob was described as an atypical amateur astronomer in the *Pantagraph* account.

Bob, it was noted, had just purchased a Celestron 14-inch telescope for \$5,000 in March of 1973. He had it positioned on the top of his garage at 1305 E. Oakland Avenue in Bloomington. There he had constructed a six-foot diameter dome resulting in the non-use of the garage. The reason – it had a concrete pier running up through its center. That Bob was very dedicated to the pursuit of amateur astronomy was also evidenced by the fact that he was the first to obtain a picture of Comet Kohoutek in the Twin Cities. The photo was taken in the early morning hours of November 30, and was a culmination of over a hundred hours of practice according to the newspaper account.

By June of 1975 Bob had moved out of the Bloomington/Normal glow of eternal twilight, and into the darker skies of Downs, Illinois. Within a short time he bought a \$3,500 10-foot diameter Ash Dome and con-

structed a small observatory (named the Marie Antoinette Observatory after his wife) with the help of some ten club members, notably Bill Zafiri, a carpenter by profession. The observatory was completed during the summer of 1977. Within a month of establishing a new observing site just north of Downs, Bob was back at work photographing comets. Several of his photographs and a short article about Comet Kubayashi-Berger-Milon appeared in the *Pantagraph* on July 28, 1975. A large picture of Comet West also appeared in that paper on March 8, 1976. Another article describing Bob's activities and the club appeared on September 11, 1977. The article detailed how the TCAA membership and the public were most welcome to observe through the observatory's equipment.

Under the influence of this new member and another by the name of Gary Rosenbaum, the TCAA began to observe more regularly and grow substantially. Many of the earlier observing programs of the club had fallen to the wayside as "space events" became more mundane, and the club membership began to drop heading for an all time low. By the mid 70's membership had dropped off to a number less than twenty.

Gary regularly publicized the TCAA with a brochure that he handed out at the restaurant he managed and membership grew by 13 during the year that he served as president. With access to new, more powerful equipment, the club reinstated the Messier observing program in July 1975 that first was established by David Williams many years before. In March 1976 the TCAA joined the Astronomical League, one of whose benefits was a formal Messier observing program with a certification and awards process. Under the Astronomical League program Bob Finnigan, Weldon Schuette, Gary Rosenbaum, and Tim Stone earned awards for observing 70 or more M-objects. Tim received the top honors on July 17, 1979, for having observed a total of 110 M-objects.

Historian's note: In part 5 of this series (November 2007) I indicated that Lee Green's brother was given the Reverend Lloyd Strouse's "horizograph." This was incorrect. Lee noted that his brother had merely been offered the horizograph but declined to accept it.

STARQUEST – A BEGINNER'S GUIDE TO DIGITAL ASTROPHOTOGRAPHY

In the pages of *StarQuest – A Beginner's Guide to Digital Astrophotography*, amateur astrophotographer Timothy Kent shares his passion for imaging the night sky with a digital camera and a telescope. If you have ever dreamed of taking photographs of the moon, planets, and stars, this informative book will help you get started in the fascinating hobby of digital astrophotography.




Written for stargazers who wish to take the next step from viewing celestial objects to photographing them, this 102 page book shares simple straight-forward techniques for using a basic point-and-shoot digital camera with or without a telescope to image the night sky. The author challenges the idea that astrophotography has to be an expensive hobby. Emphasis is placed on celestial imaging on a "shoestring" budget without having to spend a fortune on expensive astroimaging equipment!

StarQuest is well-illustrated with numerous black/white and color photos, including a gallery chapter featuring some of the best images. Just look at some of the sample images he has included on his website to show you what can be accomplished with a typical point-and-shoot digital camera.

Some of the practical topics covered in this book include: how to choose a telescope for astrophotography, how to choose a digital camera for celestial imaging, 3 types of astrophotography anyone can try, a project list for beginning astrophotographers, and resource contacts.

So, order your copy of *StarQuest* today either for yourself or as a great gift for a budding astronomer! Soft cover, 102 pages, 6 by 9 inches. Regular Price: \$16.95 ***FALL SALE PRICE*** \$12.95. Available from <http://mysite.verizon.net/vzex6141/starquestastrophotographyguide/>

DECEMBER SKY GUIDE

01	The Moon passes 2° south of Saturn, 7 A.M.	
05	The Moon passes 7° south of Venus, 7 P.M.	
14	Geminid meteor shower peaks	
	The Moon passes 0.7° south of Neptune, 12 P.M.	
16	The Moon passes 2° north of Uranus, 12 P.M.	
17	Mercury is in superior conjunction, 9 A.M.	
20	Pluto is in conjunction with the Sun, 6 P.M.	
22	Solstice (northern winter/southern summer begins), midnight	
23	Jupiter is in conjunction with the Sun, midnight	
	The Moon passes 0.9° north of Mars, 9 P.M.	
24	Mars is at opposition, 2 P.M.	
27	The Moon passes 0.6° south of Regulus, 11 P.M.	
28	The Moon passes 3° south of Saturn, 4 P.M.	
30	Comet 8P/Tuttle passes M33	

NOVEMBER OBSERVERS' LOGBOOK

With the change from daylight savings time to standard time during the last weekend of October, sunsets are now earlier, and the end of evening twilight occurs just after 6 p.m. With the approach of winter, however, the clear skies of early autumn have begun to give way to the clouds that so commonly fill the skies of later autumn and winter.

On Saturday evening, November 17th, Lee Green and Carl Wenning met at SGO to interface Carl's Macintosh computer and his Voyager 4 program with the Meade LX200. The sky was reasonably clear, but the first quarter moon interfered with any serious observations. The dynamic duo did take the opportunity to observe Comet Holmes. Carl noted the next day via e-mail on the listserv that, "Several of you have asked

me about a possible in-town Comet Holmes observing session this weekend. I do believe that we have missed the boat. We probably should have done this a couple of weeks ago. Lee Green and I observed the comet from SGO last night. It has become very large, but very dim. With the moon at first quarter phase, and the city lights, I doubt if we would have seen the comet from town either Friday or Saturday evening. What might have been seen would have been very disappointing. The nucleus is now "gone" from view, and a significant telescopic tale has begun to develop.... The comet is "huge" when seen under darker skies; the comet is now physically larger than the sun! It has a very low surface brightness." The comet is, at the time of this writing, larger than the full moon.

NOVEMBER E/PO

The November 14th public program at Bloomington Public Library – How to Buy a Telescope – was attended by 11 people – 6 non-TCAAers and 5 TCAAers. Michael Rogers gave a 30-minute presentation that was punctuated with many questions. He focused on the various kinds of telescopes on the market and explained the merits of using binoculars for observing. Following this, there was a 30-minute discussion period. Dan Miller and Lee Green were also there and helped to answer questions. Refreshments (supplied by the library) were served afterward. Also in attendance were TCAAers Jean Memken and Jonathan Rogers. The group was small, but "very interested" according to Michael. The follow-up session – How to Use a Telescope – has been scheduled for January 28th at 7 p.m. at the Bloomington Public Library.

On November 15th, Rebecca and Chrystian Vieyra hosted an observing session for high school students at the East Peoria High School observatory. About 50 students attended the session to view the waxing crescent moon and a variety of other celestial objects through the observatory's 14-in Meade LX200.

The public outreach event scheduled for Pontiac and at SGO (see the November 12th Board meeting minutes) were postponed due to overcast skies.

COLD WEATHER SIDEWALK AMATEUR ASTRONOMY SERIES

Efforts are currently underway to arrange a public observing session for the opposition of Mars. A tentative date for an in-town observing session has been set for Saturday evening, December 29th, beginning at 8 p.m. During opposition, Mars will rise at sunset. While an 8 p.m. observing session is some 3.5 hours after sunset, this later start time will allow for the planet to rise higher in the sky so as to provide for better views. By 8 p.m. Mars will have an altitude of 45 degrees. It will be located due east at this time. Tentative plans call for the observing session to be held in the parking lot of the Challenger Learning Center; fallback plans call for the observing session to be held in Normal's Fairview Park. Watch the TCAA listserv for details about this event.

Another in-town "sidewalk" observing session be the total eclipse of the moon that occurs on Wednesday, February 20th. The eclipse begins at 7:43 p.m. and ends at 11:09 p.m. Totality lasts from 9:01 to 9:51 p.m. Similar arrangements for the Mars public observing session will be made.

“DOWN UNDER” - THE SOUTHERN HEMISPHERE NIGHT SKY

By John Werner

It was with great anticipation that I looked forward to my trip to Australia and viewing of a dark sky from the Southern Hemisphere! My business conference was in Melbourne, about 38 degrees south latitude. My wife and I extended the business trip for excursions to Sydney, Uluru (Ayers Rock), Alice Springs, Cairns, and the Great Barrier Reef. The trip lasted from October 14th to October 26th. Now somewhere along the way I expected to break out my telescope and photography equipment to document at least a few notable astronomical targets.

Equipment

I wasn't going to be burdened by a lot of equipment – didn't have the luggage space or the desire to carry a heavy load and to face potential teardown of equipment through airport security.

My telescope choice was the 66mm, f/6 ASTRO-TECH refractor and the Orion mini-EQ mount, with RA drive. My camera was the Hutech modified Canon Rebel XT. Also in tow was a 28mm-80mm zoom lens. A very compact package overall and not overly weighty.

Where it came together

I wasn't able to break away from the light pollution in both Melbourne and Sydney. Ayers Rock got its first drizzle in months! But the Aborigeni Center there educated us on the important role that the night sky had on native culture. So, not until Alice Springs, a rental car, and good advice on a location was I able to execute on the dream. I ended up setting up about 10 km south of the city in a cemetery parking lot. It was an all-nighter, alone through the whole night dealing with the strange sounds of many nocturnal animals and the rumbling sound of overland truck trains. Believe me; I was looking over my shoulder as well as the night sky!

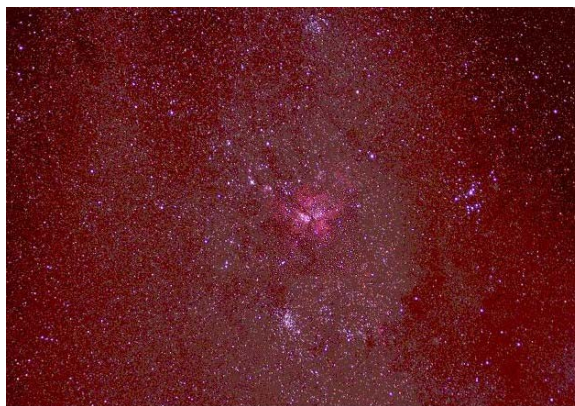
At about 23 degrees south latitude, the SCP was relatively low in the southern sky. I had a good star chart and star-hopped to get good polar alignment with the mount. The Moon did not set until 3:30am, so my wait was long to enjoy the full splendor of both the Large and Small Magellanic Clouds (easily visible) and the rich-

ness of the Milky Way river of stars, star clusters, and nebulae. I viewed and photographed both satellite galaxies, the queen of star clusters - 47 Tucanae, and NGC 3372 with open cluster neighbors such as NGC 3532 and IC 2602 as shown in the attached photograph – captured with the telephoto lens. My senses were turned upside down when viewing prominent Northern Hemisphere constellations and star patterns. Crazy feeling!

The nebulae in the NGC 3372 region were created by the dying star Eta Carina which is prone to violent outbursts. Noted and discussed as early as 1840 when a spectacular explosion became visible, the Eta Carina system now appears to be undergoing an unusual period of change. The embedded emission Keyhole nebula contains much dust, and is roughly 9,000 light years distant. The Keyhole Nebula was recently discovered to contain highly structured clouds of molecular gas.

Reflections

The eventful evening ended with an early-morning display of meteors. Almost indescribable! I was saddened by the morning sunrise glow, eliminating any further opportunity to photograph. All I could do was sit back, take it in, and reflect. I promised myself that I would return to the southern night sky.

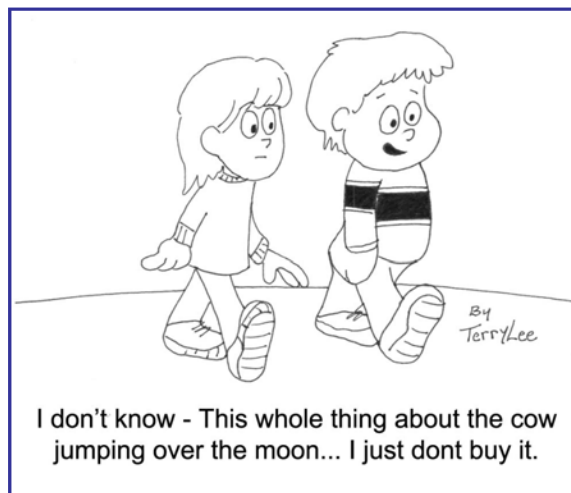


ANNUAL MEETING— FEBRUARY 16, 2008

The Annual Meeting of the TCAA will be held on the evening of Feb 16 at Turner Hall. We will have a social hour followed by dinner catered by the ISU Catering Club. After dinner, we will have our annual meeting where we will elect the board of directors and address any other regular business.

After the meeting is concluded, Lee will present "An Introduction to Astrophotography" which looks at the equipment, software and techniques needed to take photos of the sky.

While final arrangements are still pending and will be announced in next month's newsletter, please set aside the date to join in.



PROFILES IN AMATEUR ASTRONOMY: JEAN MEMKEN

Historian's note: Over the next few months I will focus the membership's attention on the TCAA's premiere observers with their help. The intention is to introduce our membership to one another and to provide opportunities to further develop relationships within our association.

Jean Memken has been an amateur astronomer for about 20 years, ever since she married Michael who is himself an amateur astronomer. Jean calls herself an astronomer by marriage, as Michael was the one who really interested her in looking at the night sky. Jean and Michael currently own a 20-inch aperture StarMaster telescope, and it has brought great pleasure to both using it and sharing it with members of the public as well as other TCAA members. The views are terrific!

Even before meeting Michael, Jean was an amateur astronomer in her own right. According to Jean, "Growing up, I always took the night sky for granted. I grew up on a farm and every night during the summertime, my family would sit out on our porch where it was cool and just talk under a sea of stars. It was so beautiful, and I can always remember watching the Milky Way come into view as the night progressed. I'm glad I am able to pass a little bit of that along to my children through our excursions to the country and SGO. I wish more children could have access to the beauty of the night sky. It was a sense of wonder to me growing up, and that has shaped my thinking to this very day."

Jean has been a member of the TCAA for about 17 years. Her mom actually introduced Jean and Michael to the club. As Jean noted, "She saw an article in the Pantagraph about it, and told Michael. We attended our first meeting in 1989. We were hooked from then on!"

Within a few years of joining the club, Jean became first a Board member and then President. As she noted, "I have many fond memories of being on the TCAA Board. It was a great experience for me, and I would encourage others to give it a try."

Jean served with Michael as editor of *The OBSERVER* for over 10 years. She, along with Michael, won the Astronomical



League's inaugural Mabel Sterns award for excellence in astronomy newsletters.

Being so very busy in her professional and private life, Jean has started working on her Messier list but hasn't had much of a chance to work on it lately. "I really would like to finish my Messier list. After that, who knows?"

Her greatest satisfaction in the realm of amateur astronomy is actually finding deep sky objects "all on my own without any help from the 'real' astronomer in the family." Jean also noted, "Our summer trip to New Mexico was a terrific experience. We stayed at the Star Hill Inn, and on the nights it was clear, we could head out of our cabin, walk about 50 yards where a telescope was all set up ready for us, and we could observe as long as we wanted without having to worry about the time or the rest of the family or dismantling the scope and loading it up. It was glorious!"

YEAR END CHARITABLE GIVING

At the end of each year many of us give donations to our favorite charities. This year be certain not to forget the TCAA. The TCAA is an officially recognized 501(c)3 non-profit educational organization incorporated in Illinois. As such, donations made to the club are tax deductible to the extent permitted by Federal law. One component of the club's draft 5-year plan is to develop a \$5,000 reserve fund for support of the 2010 NCRAL convention that the TCAA will be hosting. If these funds are not needed to support NCRAL events, the money will support future club activities identified in the club's five-year plan. Donations by the membership will go a long way toward generating the additional \$2,000 needed to reach this goal.

If you should like to donate to this reserve fund (and we hope everyone will help achieve this goal), then send your contribution to our esteemed Treasurer Duane Yockey at 508 Normal Avenue, Normal, IL 61761. Contributions in excess of \$250 will be acknowledged with an official letter for tax purposes.

TCAA Treasurer's Report – November 2007

OPERATING FUND BALANCE – October 31, 2007 - \$ 2,393.43 *

Income

Gary Showers (dues renewal) - \$ 40.00
Kent Ferguson (renewal) - \$ 40.00
John Werner (dues renewal) - \$ 40.00
Gail Nelsen (dues srenewal) - \$ 40.00
Matt Cook family (dues) - \$ 40.00

Expenses

LYB Inc. (November Observer) - \$ 21.46

OPERATING FUND BALANCE – November 30, 2007 - \$ 2,571.97

OBSERVATORY FUND BALANCE – October 31, 2007 - \$ 1,169.63

Income

Interest - \$ 1.80

Expenses

None - \$ 0.00

OBSERVATORY FUND BALANCE – November 30, 2007 - \$ 1,171.43

TOTAL TCAA FUNDS – November 30, 2007 - \$ 3,743.40

Respectfully submitted,
L. Duane Yockey, Treasurer

Sugar Grove Observatory

Listing of Official Keyholders (Paid \$10 deposit/\$5 renewal)

Duane Yockey (renewed through 2007)
Michael Rogers (renewed through 2006)
William Carney (renewed through 2007)
Carl Wenning (renewed through 2007)
Brian Barling (renewed through 2007)
Christopher Franklin (renewed through 2007)
David Osenga (renewed through 2007)
Gerry Schroeder (renewed through 2007)
Josh Lindsey (renewed through 2007)
Andrew Morrison (February 2007)
Dan Miller (renewed through 2007)
Lee Green (April 2007, renewed through 2008)

NEW MEMBERS

The Matt Cook Family

ANNUAL MEETING

February 16, 2008

UPCOMING EVENTS

December 8— Saturnalia Party

December 11—Bloomington Middle School observing session

December 29 (*tentative*)—
Sidewalk Amateur Astronomy
Series Public Observing Session



The OBSERVER

Newletter 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

Visit the Twin City Amateur Astronomers
on the web at
www.twincityamateurastronomers.org/