

The Bulletin – The monthly publication of the Indiana Astronomical Society

May, 2007
Volume 74, Issue 5
www.iasindy.org



The Bulletin

Note the May General Meeting will be held at the Goethe Link Observatory if it is clear bring a scope and observe after the meeting.

The May General Meeting, May 12, 2007 7:00 PM Link Observatory Auditorium

**Hubble The Past and The future
Dr. Catherine Pilachowski**

The Hubble Space Telescope has played a central role in the advancement of astronomical knowledge since its launch in 1990. Hubble observations have pushed back frontiers in cosmology, dark matter, star formation, and extra-solar planets. The major scientific accomplishments of Hubble in the last 17 years will be highlighted and plans for Hubble's future will be outlined. Servicing Mission 4 is on track for August, 2008, and SM4 astronauts are actively training to install new instruments and repair old ones. And beyond the servicing mission, the James Webb Space Telescope is making good progress toward launch in 2013.

Professor Catherine A. Pilachowski holds the Daniel Kirkwood Chair in Astronomy at Indiana University Bloomington and incoming Chair of the Astronomy Department. Prior to coming to Indiana University in 2001, she served as a member of the tenured scientific staff at the National Optical Astronomy Observatory in Tucson, Arizona, for 22 years. While at NOAO, she served as Project Scientist for the design and construction of the 3.5-meter WIYN Telescope, a telescope at which the IUB Astronomy Department owns a 17% share. Caty received a B.S. in Physics from Harvey Mudd College in California, and a M.S. and Ph.D. from the University of Hawaii, where she observed at the Mauna Kea Observatory on the Big Island of Hawaii. She investigates the evolution of stars and the chemical history of the Milky Way Galaxy from studies of chemical composition of stars and star clusters. In addition to her astronomical research, Caty has been active in the areas of astronomical instrumentation, large telescope design and construction, and electronic publications. She has served on numerous national and international boards and committees. She recently served as President of the American Astronomical Society, and has served more than 20 years as a Lecturer in the Society's popular Harlow Shapley Public Lecture Program.

Astronomy Day Event at Prairie Grass Observatories – April 20-21

We finally had a great time to observe here in Indiana. Friday night came with 27 scopes set up on the grass and probably 35 people most of whom were from the IAS. The night was fantastic and everyone had a great time. Saturday broke as another beautiful day. Our talks went well.

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Thanks to John Switzer and Thad Hatchett for making the presentations. Saturday evening broke again with a beautiful sky. We had 34 scopes set up and there was quite a crowd. We had our two ex-officio members Rick Rashman from Chicago with one of the new Obsession 30s and Danny Mitchell from Bloomington, Il with his Starmaster 24. There were lots of visitors and we had a good night. Russ Kasper and I spent quite a bit of time trying to find Omega Centauri but to no avail. But again it was fun.

It was good to see new members out and observing. Next time I hope to see more.

Russ and I agreed that this is an event we need to do a couple of times a year. Thanks to Russ the camping was free and we should all thank him if you see him. When I left today everything seemed fine and clean. Thanks guys. Let's do it again.

The Kirkwood Observatory

IU's Kirkwood Observatory Open for 2007

IU's historic Kirkwood Observatory has reopened for the 2007 season. The Observatory houses a 12" refractor built by Warner & Swasey in 1901. The f/15 doublet objective lens, designed for work on visual binaries, was made by John Brashear and produces excellent images when the seeing is good. The Observatory was renovated in 2001 and restored to its original condition, including a massive wooden dome. William Kopp, a machinist in the IU Astronomy Department, refurbished the telescope itself. More information about the Observatory is available on the Web at http://www.astro.indiana.edu/kirk_sch.shtml.

The Observatory is open each clear Wednesday night from now through mid-November. The hours are posted on the Web at http://www.astro.indiana.edu/kirk_sch.shtml, and a new "hotline" is available with current information about weather conditions. Call 812 855-7736 to find out if the Observatory will be open before driving to Bloomington.

The Observatory is located in Dunn's Woods, near the southwest corner of the IU campus in Bloomington. A campus map is available on the web at <http://www.iub.edu/~iubmap/>. Parking is available after 5 PM in the IU lot at the southwest corner of Indiana Ave. and 4th Street.

New Moon Observing and Public Event at McCloud May 18

Our next New Moon event is at McCloud on May 18. This is also a public event so we need to have scopes available for them to look through. Careful about parking. There is limited parking due to the construction. Since the ground will still be saturated I suggest bringing small portable equipment and string out along the road to the maintenance building. Come out and enjoy the Indiana night skies.

The Pres

Space Exhibit at the State Museum April 13 and 14

Thanks to all those who came out and helped with our exhibit at the Museum. We had 1900 kids on Friday and about 1000 scouts on Saturday. We were able to disseminate all kinds of literature about the Society and talk about telescopes to the visitors. We also had a really good time. This is probably the best way to promote the society that we have had in a long time. The next event is

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going to be Summer Solstice June 23 and we will be doing solar observing as well as chatting with the public. Later in the year we will have a star party. We will need many volunteers.



John Switzer demonstrating the use of a refractor.

Gerald Venne gvenne@iquest.net is looking for people who can volunteer an hour to help us with our next event in June. Send an e-mail to Gerald if you can help.

Daffodils

Tom Borlik and several volunteers opened the Observatory to tours for the guests coming to see Helen Link's daffodils. Each year during April, when the daffodils are blooming, people flock to Tanager Hill and the Link Observatory to see Mrs. Link's flowers. There are thousands of Daffodils that cover the hillside. The wet ground made it difficult to traverse the hillside and the lack of care for the gardens is taking its toll both on the flowers and the attendance. Thanks to Dan O'Brien for opening the gate each day throughout the weeks. Thanks to Tom for his dedication to the flowers and Mrs. Link.



Tom Borlik lectures about the history of the Link to Daffodil folks.

NAG May 26 7:30 PM at Link

The next monthly meeting of the Indiana Astronomical Society's New Astronomers Group for 2007 will be held on May 26 at Goethe Link Observatory starting at 7:30 pm. Weather permitting there will be an observing session using IAS member's telescopes and binoculars following the meeting. *Note that we have changed the night to the Saturday closest to the 1st Quarter Moon and the start time is still 7:30.*

THE NAG MEETING WILL BE HELD - RAIN OR SHINE.

Discussion topics for this month:

- Observing the Late May/Early June Evening Sky
 - The Spring Pointer Stars
 - Dabbling in the Dippers
 - Our Solar System
 - The May/June Deep Sky
 - M3 – A Globular Cluster
 - M53 – A Globular Cluster
 - M64 – The Black Eye Galaxy
 - The Coma Berenices Star Cluster – Open Cluster
 - M51 – The Whirlpool Galaxy
- Planning an Observing Session
- A Beginners Introduction to the Telescope
- Question and answer session

The purpose and intent of the NAG is to introduce new astronomers to observing the night sky. All types of observing will be discussed including naked eye, binocular and telescope.

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If the weather cooperates, following the meeting, IAS members will have telescopes set up and attendees will have an opportunity to view some of the night sky objects discussed during the meeting.

The night sky can be an intimidating place. With a little help everyone can enjoy the celestial beauty that we have all taken for granted our whole lives. From the constellations to the deep sky; with the naked eye or with a telescope, there is something for everyone to enjoy. There have been some changes at McCloud in that the hanger has been torn down and there really is no place to have the New Astronomers Group meetings. So, we have decided to move the meeting to Link each month with observing afterwards if the weather permits. We will continue to have New Moon Friday events at McCloud with public observing in the early evening. John and Vicki Switzer will be leading the events again this year. However we need members help providing scopes after the program for observing. Come on out and help open the door to someone to learn to love this hobby.

The dates for the NAG events are as follows:

May 26
June 23
July 21
August 18
Sept 22

The Society has a new Librarian

Larry Marcus has agreed to be the society's librarian. Larry will be organizing the books and has some ideas on how to better utilize the collection. If you have a title you would like to see in our library please contact Larry.

Orchids and Onions

An orchid to Tom Borlik for his continued support to the Link. He has set two new birdhouses on the Link property. An orchid to Dan O'Brien for his help with the daffodils. Tom, Betsy Brown, Doug Brown, and Peter Kline all get a bouquet of orchids for cleaning the basement at the Link (Betsy even went into the basement to help). A bouquet of orchids to Mike Kirsch for the conversion of the 10 inch fork mount to a dob for the loaner group. Thanks to all of those who helped at the Museum event.

Thanks to all who helped with the cleanup day at Link. It looks really nice.
The Pres

Messier Marathon

The Pres

Well we did not have much of a turnout due to the cold weather and the five of us did observe at McCloud and about fifteen showed up at the Link Saturday. Both nights we froze out by about midnight. They were good and clear with lots of bright stars.

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Results:

Dan O'Brien - 17 Binoculars
Terry Steadham – 23 Binoculars
John Molt – 17 Scope
Ron Burgess – 29 objects
Jeff Patterson – 7 Binoculars
John Shepherd 78 Scope (computer controlled)

Therefore the winners are:

Ron Burgess - 29 objects in a non computer controlled telescope
John Shepherd - 78 objects with a computer controlled telescope (Something must be wrong at Palomar as Shep got 108 last year. Of course he was at Mt. Palomar using an 8" APO)
Terry Steadham – 23 objects with binoculars

Congratulations guys.
Jeff

Gadgets and Gizmos

This is a new section to discuss new equipment. If you see something or have a new gadget let me know and we will get an article about it.

How many of you have been at an observing event and someone either shorter or taller comes up and wants a peek. You loosen the set screw on the diagonal and rotate it for the new observer. After a while someone else wants a peek. You rotate it again to fit them and the whole thing falls apart in your hands. You had forgotten to tighten the screw. Luckily the items were caught. Sound familiar? Anacortes has a new little gadget that goes between the scope and the diagonal called a virtual view. All screws remain tight but you can rotate it around to fit any height. Comes with SCT threads so you have to buy a threaded adapter to fit a normal focuser. One word of caution. Bill Conner and I were using his at WSP and found his scope did not have enough in travel on the focuser to account for the adapter. Make sure your scope has plenty of in travel. It costs \$99 and the adapter is about \$25.

Get to Know Your Officers

Board of Directors – Bill Conner

Bill Conner - Director/Astroimager

Bill's interest in astronomy dates from the late forties when his parents moved the family to a home near the little crossroads of Nora, Indiana. He acquired a "Little Golden Book" on Astronomy at 11 years of age and found it interesting, but beyond his comprehension. Photography was also an area of interest and easier to understand. Bill borrowed his Mother's Brownie 116 Box camera and learned to shoot, develop and print photographs.

Bill attended Broad Ripple High School in Indianapolis and graduated from Muncie Burriss in 1956. He acquired a "Ham Radio" license while at Burriss and built his own equipment. This experience helped Bill decide that electrical engineering would be his field. He competed for and won a Navy scholarship which made it possible for him to attend Purdue University. The launch of "Sputnik" precipitated a major modernization of the curriculum at Purdue much to Bill's pleasure. He graduated in 1960 with a Bachelor

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of Science Degree in Electrical Engineering and an officer's commission in the U.S. Navy. Bill volunteered for Submarine duty and received intelligence photography training. He acquired celestial navigation skills as a Submariner and navigated the Atlantic and Pacific Oceans submerged. Bill learned the constellations in order to identify stars used for navigation. The seasonal appearance of constellations began to make sense and rekindled his interest in astronomy. He retired from the Navy in 1980 and obtained a Masters of Business Administration from IU in 1982. He chose Investment Management as a second career and earned his Certification as a Financial Planner and Investment Advisor.

The motivation to become more involved with astronomy came in 1994 with the news that comet "Shoemaker-Levy had been captured by the planet Jupiter and was going to impact. Bill attended an astronomy event on the front lawn of Holcomb Observatory on Butler's campus and learned of the Indiana Astronomical Society. He joined the society and began to benefit from mentoring by the experienced members. Bill chose an Orion 8" Dob as a modest way to start. His first view of the Orion Nebula was awe inspiring. After a few years he decided to make use of his submarine intelligence photography skills, and he made the necessary upgrades to take astrophotos. CCD imaging became feasible for him in 2002 and it removed some of the frustrations associated with film photography. He currently produces professional quality astroimages and has won many awards at "Star Parties" for his work. He enjoys helping others acquire these skills.

Bill has served as the Vice President, Program Director, and Outreach Coordinator of the Society. He is currently serving his third term as a Director.

Bill is building a log cabin in the Owen-Putnam State Forest near Spencer, Indiana. The site is dark and he will assemble an observatory there. His two sons, Bill and Wade, live and work in Indianapolis area and he has four grandchildren.

Meet Our New Members

We have one new member to the Society this month. Teresa Wright, a student from Mooresville H.S. has joined the Society and is building a 8" Dob. Welcome Teresa.

Seek out new members out and see if you can help them out.

The Society wants to welcome each of you and if you have any questions do not hesitate to ask.

The Pres

Mentor Program

We are reinstating the mentor program which will provide the new member with lots of information and help them assimilate into the Society. Thad Hatchett has volunteered to lead this program. We need your help. If you are interested in becoming a mentor please contact me at Jeff Patterson KB9SRB@hotmail.com or Thad Hatchett at astronomynut@sbcglobal.net. We will put your name on the list and assign a new person to you. Our goal is to retain people and make this hobby a lot more fun.

Upcoming Star Parties and Registrations

Heart of America is coming up. This is a premier site and not that far away. Get your registrations in.

Texas Star Party West Texas May 13-20, 2007 1500 miles. This is a premier party with very dark skies and a great site. Just a long way. Online registration is open now.
www.texasstarparty.org

Earth, Wind and Sky Star Party, Vana Farms, Kankakee, IL. May 9-13, 2007. This is to be a traditional star party plus exhibits, talks, and demonstrations in other science fields.
<http://www.chicagoastro.org/>

Cherry Springs Star Party Cherry Springs State Park, PA May 17-20
<http://www.astrohbg.org/s4>

Heart of America Star Party MO June 12 – 17, 2007
<http://www.askconline.org/index.htm>

Wolford/Mitchell Star Party - July 13-14 Dates --- We are planning on the new moon weekend in July. That would be Friday, and Saturday nights, July 13th and 14th. I have had one couple ask if adding Thursday night would be possible. Send me an e-mail if you are interested. Perhaps we can extend the rent of one of the campgrounds a night earlier if there is enough interest. Even if we don't get enough interest to warrant renting the entire campground for an extra night, keep in mind that it is a state park and individual campers are welcome! (Sandy and I may go on over on Thursday --- don't know yet.)

The site --- Jim Edgar Panther Creek is where the Illinois Dark Skies star party is held. Several of us were there last year and the sky appeared pretty good --- in between the tornadoes that were passing through!

The campgrounds --- we have rented two entire campgrounds in order to better control the possibility any stray light. There is PLENTY of space for everybody! The campground host will not allow any wheeled vehicles to be parked in the grass. Cars and RV's will have to remain on the parking areas.

Cost --- Hey, Danny and I are going (along with Debbie and Sandy, of course), if you want to come and join us --- come on!!! We "might" pass the hat in case you've got an extra buck or two to toss in. We don't want to make any money folks we just LOVE to share the dark skies!!!

Agenda --- none! I REALLY just want to go out and have a great weekend with a bunch of friends. Just pack a bit of common sense, a dab of star party etiquette, and a huge desire to have a great time, and come on over!!!

Address any questions or comments to me at: mike@mikewolford.com

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Nebraska Star Party - July 15-20, 2007 North Central Nebraska - 950 miles 18 hour drive. This is a premier dark site and has fantastic observing. However, the weather is brutal. Temperatures this last year reached 108 degrees. However you can cool off in the shade of the tree. There have been some changes this year and all activities will be at the Snake Creek Campground this year. (I wonder why they call it Snake Creek). No activities will be at the resort this year.

<http://www.nebraskastarparty.org/>

EPOCH 2007 The 21st Century Midwest Star Party July 8-15, 2007
Beaver City, Indiana This is a new star party put on by 20-20 Telescopes.

<http://www.2020telescopes.com/EPOCH2007.html>

Indiana Family Star Party Camp Cullum, Frankfort, IN Aug 10-12

<http://jmmahony.home.insightbb.com/pgo/starparty/>

Black Forest Star Party PA Sep 14-16

<http://www.bfsp.org/starparty/>

Astrofest Vana Farms, Kankakee, IL. September 6-9

<http://www.chicagoastro.org/>

Prairie Skies Star Party – Kankakee IL – September 13-16, 2007

<http://www.prairieskies.org/>

Illinois Dark Skies Western Missouri September 13-16

<http://www.sas-sky.org/>

Twin Lakes Star Party Pennyville State Park, Western KY Oct 6-13, 2007

<http://www.wkaa.net/>

Okie-Tex Star Party Camp Billy Joe, OK Oct 6-14

This is supposed to be one of the darkest sites in the US. <http://www.okie-tex.com/>

Eldorado Star Party – Eldorado , Tx (South Central) -October 10-13, 2007

If you know of events coming up let me know and I will get them in the Bulletin

Public Outreach Programs

Gerald Venne is our Public Program Chairman. He will be responsible for coordinating Public Events for the IAS. He needs your help. Let Gerald know if you would like to show the public our sky.

The season is coming upon us. We need people to help at Link and elsewhere. It is actually a lot of fun.

To schedule a public event contact Gerald Venne 1 317 826-2680 or Jeff Patterson at 1-317 882-8055.

Astro Ads

Are you changing or upgrading your equipment? Do you have or are you looking for astronomical materials and equipment? The Indiana Astronomical Society as a service to its members, will publish non-commercial ads at no charge. The ad will stay in the Bulletin for 4 months and may be renewed at the owner's request.

To place an ad contact:

Bulletin Editor

Jeff Patterson

1780 S. Morgantown Rd.

Greenwood, IN 46143

(317) 882-8055

E-Mail: KB9SRB@Hotmail.com

For Sale - SkyWatcher 2001PEQ5 Newtonian Telescope

SkyWatcher (Synta) 200mm Newtonian Telescope on an EQ5 German Equatorial Mount (Celestron CG-5 Clone).

- Same as SKP2001EQ5 on SkyWatcher's Website, <http://www.skywatchertelescope.com/2001PEQ5.html>.
- Original aluminum tripod replaced with a rock solid custom built red oak tripod.
- EQ5 GEM upgraded to full GOTO capability via Meade's 497 AutoStar Controller, Meade's DS Motors and GOTO4ALL Mounting Brackets.
- A second (damaged) CG-5 GEM mount for backup parts.
- Extra Meade 497 Controller.
- Several extra Meade DS Motors (some never used).
- EP Focuser upgraded via Meade 1240 Electronic Focuser Motor.
- Telrad Finder Scope.
- 12V Battery, Charger and all necessary cabling to run the scope.
- Celestron Anti-Vibration Pads (3).
- Upgraded (offset) Spider and Secondary Mirror Mount by Gary Wolanski.
- Upgraded 1.24" secondary mirror (Discovery).
- Scope Tube totally lined with ProtoStar Flocking Paper.
- Orion Padded Telescope Case.
- Carrying cases (2) for GEM, Balance Weights and DS Motors.
- Custom built full aperture solar filter.
- Custom built dew shield.
- Custom built Hartman Mask.
- Total amount invested: over \$1,500
- Asking Price: \$800.00

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Please email if you have any questions: jswitzer@crtcblue.com

I will deliver to any IAS Sponsored Event.

For Sale – Orion 120mm F5 acromat. Comes with rings. This would be a good scope to start out with. Excellent shape \$250.00. kb9srb@hotmail.com

For Sale – Celestron 4” F5 acromat. Excellent shape \$200.00. I bought the scope new as a finder scope but just don’t use it. kb9srb@hotmail.com

For Sale – I have the following stuff for sale:

- 1) Stellarvue AT1010 80mm Achromat refractor with aluminum case, rings and 2-speed focuser. In excellent condition \$200.00
- 2) Takahashi 2" eyepiece adapter (setscrew version) for 2.7" focusers in new condition \$50.00
- 3) Apogee Inc. Adjustable white metal observing chair. In excellent condition \$25.00
- 4) Eyepiece projection adapter for Canon G2/G3 cameras \$15.00
- 5) Tele Vue 2" to 1 1/4" eyepiece adapter. Set screw version. Excellent condition \$12.00
- 6) Constellation Guidebook by Rukl. Excellent condition \$8.00
- 7) The Perfect Machine - Building the Palomar Telescope (old library book in good condition) \$10.00
- 8) Centauri Dreams - Imagining and Planning Interstellar Exploration by Paul Gilster in excellent condition \$10.00
- 9) The Planets by Dava Sobel (old library book in excellent condition) \$10.00
- 10) 1 pair of Stellarvue hinged rings for 4" scopes. excellent condition \$75.00

Contact Doug Sanqueti drsanqun@gmail.com

Loaner Equipment Program

The Loaner Program has been helpful to those new to the hobby and others in need of observing equipment. We consider offers of equipment you may not have need for any longer.

Did you know you can borrow a scope or piece of astronomy equipment from the Society and take it for a test drive? The Society has a program where members who are trying to determine what kind of equipment to buy can borrow one of the Society’s scopes for a month or two and see how they like it. John Molt is the chairman of the program and can arrange for your pickup and training on the use of the particular instrument. This is a great way to see what telescope you want to purchase. We have several scopes, eyepieces and binoculars to loan.

John Molt (1stargazer@indy.rr.com) or 317-844-1799)

List Server Online - Don't be left in the cold - Sign up!

This service is our main communication tool. The list server is in the “Members Only “ section of the site and is accessible only by IAS members. Make sure we have your correct e-mail and you will have access for late updates to events and functions.

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Note: The list server is for use of Society business. It can only be used according to the rules as outlined previously. Members abusing the service will be eliminated from the service.

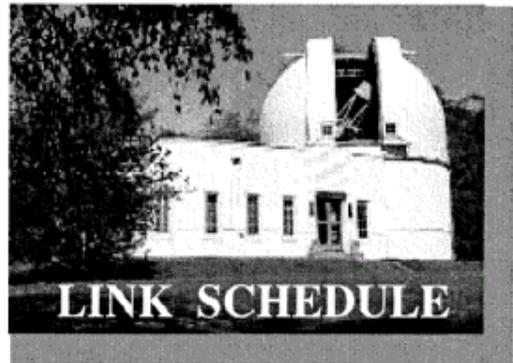
Board Meeting – May 17, 2007 - 7:00 PM

The IAS Board Meeting is being held at 430 Massachusetts Avenue in downtown Indianapolis. The building is at the point of convergence of Mass. Ave., Vermont and Alabama Streets. There is a Starbucks located in the frontage of the building. The coffee shop stays open late into the evening. Try to park as close to Starbucks as possible, preferably in a metered space. On-street parking is free after 5pm. Handicapped parking is directly in front of Starbucks entrance. The main entrance to the building is to the right of Starbucks, but it will be locked. To get into the building, walk around the building to the left as you are facing Starbucks. You will cross Starbucks outdoor patio seating area and you will come to the double door entry into the building (this is the south building façade). These doors will be unlocked. Enter the lobby and ride the elevator (to your right) to the basement. Turn right as you exit the elevator and go through the first door on your right. This is the conference/meeting room. If you need further assistance, please contact Brian P. Murphy, IAS Vice-President on his cell phone 716-8124.

Goethe Link Observatory Observatory Address

**Goethe Link Observatory
8403 N. Observatory Lane
Martinsville, IN 46151**

**Observatory 's Phone:
(317) 831-0668**



This schedule is being published to assure proper access to the Link Observatory for programs that are designed as observational, general education, astronomy conferences or amateur research projects. Training programs are tentatively scheduled for Saturday evenings only. Although other requests can over-ride these sessions. It is the purpose of this listing to prevent activity conflicts.

If you need to acquire use of the 36-inch telescope: remember two important IAS guidelines: 1) *There has to be two or more IAS members present.....* 2) *contact the Observatory Manager: Gary Schoppenhorst (317)297-1405. DON'T WAIT UNTIL THE LAST MINUTE TO MAKE YOUR REQUEST OR YOU MAY NOT GET ACCESS.*

Link Activities for May:

- May 12 General Meeting
- May 19 New Moon at Link
- May 26 Observer's meeting and NAG – 7:30PM

McCloud Activities for May:

- May 18 New Moon and public observing event

Observing Activities

We are able to go to the Link, Prairie Grass Observatories and McCloud Nature Park at non scheduled times if they do not conflict with reserved activities:

For those interested in going to The Link Observatories for observing call Gary Schoppenhorst 1 317 297-1405.

For those interested in going to Prairie Grass Observatories for observing call Hoppe at 1-765-296-2753.

For those interested in going to McCloud to observe, please call the park caretaker, Jim Holtsclaw, at the park office 765 676 5490 before 4PM on the day you want to go out. He will give you permission to be there at night and cut off the lights.

Bulletin Stats

Accessing the Bulletin

The current bulletin can be found on the website www.iasindy.org

Bulletin - Bulletin deadline on the 20th of every month

The monthly newsletter welcomes articles of local astronomical interest information and want ads:

Please submit to

The Indiana Astronomical Society, Inc

Jeff Patterson, editor

1780 S. Morgantown Rd

Greenwood, IN 46143

Phone: (317) 882-8055

KB9SRB@hotmail.com

Membership information

Contact any IAS officer or the Treasurer

John Shepherd (317) 862-3442

Link Observatory

Latitude: 39 degrees, 33 minutes North

Longitude: 86 degrees, 24 minutes West

Phone: (317) 831-0668

IAS Internet address

<http://www.iasindy.org>

Executive Officers

President: Jeff Patterson (317) 882-8055

Vice-President and Program Director: Brian Murphy (317) 841-8511

Secretary: Betsy Brown 1-317-872-4050

Treasurer: John Shepherd (317) 862-3442

Board of Directors

Gary Schoppenhorst (2009)

Gerald Venne (2009)

Thad Hatchett (2007)

Doug Brown (2007)

Bill Conner (2007)

Marion Hakes (2008)

John Molt (2008)

Public Event Chairman

Gerald Venne gvenne@iquest.net 1 317 826-2680

Library Committee Chairman

Larry Marcus

May Calendar, 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 Full Moon	3	4	5
6	7	8	9 Last QTR Moon	10	11	12 General Meeting at Link
13	14	15	16 New Moon	17 Board Meeting	18 New Moon at McCloud	19 New Moon at Link
20	21	22	23 1 st QTR Moon	24	25	26 Observer's Meeting NAG
27	28	29	30	31		

Membership Application to the IAS

Benefits:

- Use of the Goethe Link Observatory
- Formal monthly programs with guest speakers
- Local and regional astronomical functions
- Discounted Astronomy publications
- New Moon observing activities
- Access to IAS member experts and problem solving
- The Bulletin monthly newsletter
- Free admission to the Holcomb planetarium
- Star party events and observing sessions

Please mark whether this is a new or renewal application

New

Renewal

Note: Magazine subscription renewals forms and payment must be submitted to the Treasurer in order to maintain publisher's club discount.

Name: _____

Address: _____

City: _____ State: _____ ZIP: _____

Telephone: () _____

E-Mail Address: _____

How do you want to receive the IAS monthly newsletter?

Downloadable from Website Hard Copy*

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* Please note that hard copy costs the Society about \$1.50 per issue. Please consider this when selecting mode of receiving the newsletter.

Annual Regular Membership (\$25.00)	
Annual Student Membership (\$10.00)	
Astronomy Magazine Renewal (\$34.00)	
Sky and Telescope Magazine (\$33.00)	
Total Enclosed	

Make checks payable to: The Indiana Astronomical Society, Inc

Please complete Member Profile and include with the application

Mail Application to: John Shepherd, Treasurer
4609 Callahan St.
Indianapolis, IN 46239

Member Profile

Spouses Name: _____

Children's names and ages: _____

Education: _____

Occupation: _____

How many years associated with Astronomy? _____

Special astronomical interests or projects: _____

-

Equipment: _____

What can the Society do for you? _____

What can you do for the Society? _____

Note: Profile information is not a requirement for membership to the Society. This information is entered into the IAS database and is not given nor sold for solicitation purposes. It does provide for a brief welcoming article for new members and may be used by the society to match people with similar interests.