

The Bulletin – The monthly publication of the Indiana Astronomical Society

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The Bulletin

2009 International Year of Astronomy

**Please Remember: The General Meetings Move to Butler's
Holcomb Observatory for the Winter.**

**IAS Multi Media Library
IAS General Meeting Nov 7, 2009
Holcomb Observatory
Butler University**

Greg McCauley our library coordinator plans to go on line and demonstrate the multimedia library for us and go over the computer skills that are needed. He will review all the sections of the Multi-Media Library. In addition we will discuss the use of You Tube videos in our library and how to access them and where to look for additional ones. Greg will discuss what computer skills that are necessary to access and use the system. This should be a fun hands on action filled night. Come one come all!!!

Greg has been with the Indiana Astronomical Society since September 2008 and is currently the IAS Librarian. Greg started his engineering career in 1971 with NASA at the Manned Spacecraft Center in Houston, Texas. As a member of the Mission Planning and Analysis Division, he worked with the Lunar Rover Team in planning the lunar rover excursions for Apollo 15, 16 and 17. After the end of the Apollo Program, Greg moved back to Indiana and held various industrial positions in technology and management until co-founding a healthcare consulting company located in Carmel, Indiana. Greg has been married to his wife Janet for 36 years, has four grown children and currently lives in Westfield. Greg has always been fascinated by astronomy and the wonders of our universe and is excited to be a member of the Indiana Astronomical Society.

When the opportunity to be the IAS Librarian became available, Greg saw it as a way to be involved with the IAS membership and "a great way to get all the books!" Upon researching ways to make information on astronomy more accessible to the IAS membership, Greg worked with the IAS Board of Directors in the development of the web based IAS Multi Media Library. Since the roll out of the Multi Media Library in March of 2009, the Library has been a great success. It contains over 150 web based videos on stellar and planetary astronomy, telescopes, accessories and a variety of amateur astronomy related subjects.

IAS Calendar of Events for November

November 7 – General Meeting at Butler

November 10– Board Meeting

Nominations Committee

The Board has appointed Jeff Patterson (KB9SRB@Comcast.net), John Molt (1stargazer@indy.rr.com), and Doug Brown (ddbrown4565@comcast.net) to act as the nominations committee for this years elections. Please contact them if you are interested in running for office this year or if you know someone who would be a good candidate.

The Pres

Elections are Coming

It is time to begin thinking about elections again in earnest. Our elections will be held in December. There will be two Board members up for election as well as the four officers. I urge you to consider running for office. In addition the coordinator's positions will be open for appointment. If you would like to be a part of the governing body of the Society and help steer the direction of the Society please see one of the members of the Nominations committee . This looks like it may be another exciting year in our history. If you would like to act as one of the appointed coordinators please let us know as well.

Duties of the Officers:

(1) Except as provided by these bylaws or required by law, the entire control of the Society and its affairs shall be vested in the Board of Directors.

(2) The Board of Directors shall consist of seven (7) members elected from and by the membership at large. In addition, each Executive Officer shall be a voting member of the Board during their terms of office. In the event of a tie vote upon any matter, the President of the Society shall cast a second vote to break the tie.

(3) The age requirement for members of the Board of Directors and Executive Officers shall be 18 years or older.

(4) A member of the Board of Directors or an Executive Officer may be re-elected after their term of office expires.

(5) If a vacancy occurs in any office for any reason, including failure to attend meetings, the Board of Directors shall elect a member of the Society to fill the unexpired term of the vacant office. Failure by a Director to attend six (6) meetings of the Board of Directors during any twelve (12) month period may constitute a vacancy at the discretion of the Board.

(6) At each December meeting, here designated as the "Annual Meeting," the Directors shall be elected by the membership to succeed those whose terms expire.

(7) The Executive Officers of the Society shall be President, Vice President, Secretary, and Treasurer, all of whom shall be elected by written ballot or voice vote at the Annual Meeting. The term of office for the executive officers will be for one year starting January 1st of the next year.

(8) No person shall hold more than one Executive Office at a time.

(9) Members of the Board of Directors shall hold office for three years. Their terms shall be staggered so that two directors are elected at each annual meeting, with the exception of a year in which a third director is to be elected.

(10) The President shall preside at all meetings of the members and ensure that the purposes of the meeting are accomplished. The President shall annually nominate the Editor of the monthly newsletter (*The Bulletin*), the Web Supervisor of the official website, the Associate Web Supervisor, the Observatory Manager, the Equipment Loan Program Coordinator, the Public Events Coordinator, the Librarian, the Membership Coordinator, and the Astronomical League Correspondent. The nominations will be ratified by the Board of Directors. The President will be responsible for communication with Indiana University. The President is responsible for filing all corporation and tax returns as required by the State of Indiana.

(11) The Vice President shall preside in the absence of the President and shall act as Program Coordinator. The Vice president's principal responsibility is to obtain speakers or to develop a specific program for each of the general meetings.

(12) The Board of Directors shall compile and approve an annual inventory report showing the whole amount of real and personal property owned by the Society. The report shall be presented to the President at the January Board meeting. The Secretary shall file the report with the Society's records.

(13) The Secretary shall keep minutes of all Business/Board meetings, initiate such Society correspondence as shall be directed to the Secretary, and ensure that records of the Society's business are maintained in permanent form.

(14) The Treasurer shall be responsible for all monies belonging to the Society. The Treasurer shall keep accurate records of all transactions and hold Society funds ready for disbursement at the order of the Board of Directors. The Treasurer shall also maintain insurance documents and prepare and submit all required state and federal tax returns.

(15) The Board of Directors and Executive Officers shall establish official Standard Operating Procedures (SOPS) for operation of the Link Observatory, to clarify the requirements of these bylaws, detail agreements between the Society and other parties and to comply with any city, state, or federal rules or regulations. These procedures may be altered by the Board of Directors without a general members' vote. Such operating procedures shall be filed with the Society's records and shall be posted where deemed appropriate.

(16) The Observatory Manager shall be responsible for routine management of the Link Observatory. The Observatory Manager shall maintain an inventory of the IAS property at the observatory and schedule the use of the Link Observatory facilities. It is the Observatory Manager's responsibility to notify the President of any situation at the Link Observatory that requires the attention of Indiana University. The Observatory Manager is responsible for the security of the keys he holds for the Society, accounting for all keys issued to the Society, reporting of the status of the keys to the Board and issuance of keys in accordance with the directions of the Board.

(17) The Editor of *The Bulletin* shall be responsible for publishing the monthly newsletter. The electronic copy is to be transferred to the Web Supervisor for placement on the website. The Editor of *The Bulletin* shall be responsible for printing and mailing copies of *The Bulletin* to members who have designated that they prefer "hard copies" and to Friends of the Society. It is the Editor's responsibility to maintain a high level of excellence in *The Bulletin*.

(18) The Web Supervisor shall be responsible for the operation and maintenance of the IAS website at the highest level of excellence. The Associate Web Supervisor shall assist the Web-Supervisor in their duties and know the system well enough to act as Web-Supervisor if needed.

(19) The Librarian shall be responsible for the Society's library including the maintenance of an inventory of all media, and check in/out records for the Society. The Librarian shall be responsible for recommendations to the Board for additional media.

The Bulletin – The monthly publication of the Indiana Astronomical Society

(20) The Equipment Loan Program Coordinator shall be responsible for maintaining the loaner equipment and overseeing loan activities.

(21) The Public Events Coordinator is responsible for evaluating, scheduling and coordinating events requested by public and private institutions and individuals.

(22) The Astronomical League Correspondent (ALCor) shall serve as the Society's contact person for Astronomical League matters. The ALCor will coordinate with the Membership Coordinator to ensure that membership rosters are sent to the League in accordance with Astronomical League procedures. The ALCor is also responsible for communicating League benefits and programs to the Society's members.

As a collateral duty, the ALCor shall serve as the Society's Awards Coordinator (AC) for the League. The Awards Coordinator will carry out these duties in accordance with directives from the Astronomical League National Observation Program Coordinator.

(23) The Membership Coordinator shall collect dues from the members, keep accurate records of all transactions and transfer these funds to the Treasurer. The Membership Coordinator shall update and maintain Membership, Inactive membership and IAS Astronomical League databases. Each month the Membership Coordinator will send Notices of Pending Membership Expiration and Notices of Membership Expiration. In addition, the Membership Coordinator will send letters of welcome and introduction to all new members upon receipt of the application and dues.

Tough Little Galaxy Guys

by C. C. Petersen, [The Spacewriter's Ramblings](#)

Barnard's Galaxy as seen by ESO



Barnard's Galaxy glows beneath a sea of foreground stars in the direction of the constellation of Sagittarius (the Archer) (Click to embiggen.) Courtesy ESO.

What do you get when you point a powerful telescope at a tiny, irregular dwarf galaxy that just so happens to be a neighbor of the Milky Way Galaxy? The folks at the [European Southern Observatory](#) did just that and created an amazing image of a tough little galactic neighbor brimming with star formation regions, interesting bubble-shaped nebulae, and scads of hot, blue stars.

Now, you may look at this image and think to yourself, “It doesn't look like a galaxy — don't all galaxies have spiral arms?”

Well, not always. There are many in the universe that look like this — oddly misshapen, dwarf-sized collections of stars. Yet, even though Barnard's Galaxy doesn't have that spiral-armed grace and large central bulge that the Milky Way and Andromeda have, it plays an important role in stellar and galaxy evolution. In addition, its reddish nebulae are the same kinds of active star-formation regions that we see in larger galaxies. These regions glow because their hot young stars are heating the surrounding gas clouds. Also prominent in the upper left of this new image is a striking bubble-shaped nebula.

At its heart (if you zoom in closely), you can make out a collection of massive, superhot stars that are sending waves of matter smashing into the material in nearby regions. The interaction has created what looks like a glowing ring around the central region. Look closely enough and you'll see other regions where hot young stars are heating up their neighborhoods.

This tough, tiny little galaxy comes in at about a tenth of the size of the Milky Way and has about 10 million stars. Yet, as part of the Local Group, it's in the majority of galaxy types because the Local Group dwarfs outnumber the “normal” spirals. This kind of begs the questions, “What's the norm?” And “How do these galaxies fit in the hierarchy of other galaxies?”

Irregular dwarf galaxies are blobby and not very well-defined. They get these amorphous shapes from close encounters of the galactic kind that go on for millions of years.

The Bulletin – The monthly publication of the Indiana Astronomical Society

How does that work?. Like everything else in the universe, galaxies are in motion, and this means that at some point, a given galaxy will encounter at least one other one during its lifetime. They often make close passes or even go through one another. The density of stars in galaxies is quite low, meaning that few stars physically collide. But, the gravitational effect that each galaxy has on the other will warp and twist their shapes. When this happens, huge collections of stars are pushed or pulled in new directions, or even flung out away from the galaxy where they formerly “lived.” After the encounters, the resulting galaxies look a lot like Barnard’s Galaxy — irregular, with regions of star formation and star death studded among their other stars. They have to be tough to survive the close encounters of the galactic kind!

Recent Star Parties

Twin Lakes Star Party

Held October 10 through 18 at Pennyriple Forest State Forest in western KY proved once again the folks are great hosts and have nice skies to observe under.

Continuing the fine tradition of ‘southern’ hospitality, members of Western Kentucky Astronomical Association made sure we were well fed and provided unlimited snacks, fruit and hot beverages. They cooked burgers and hot dogs on Wednesday for an evening meal and on Friday they had chili – both meals were pleasant surprises and done to make sure our experiences were enjoyable during an ugly weather week. Tuesday evening many attendees went to the Lodge for dinner, it was cold too so we headed there and followed it up with movies in the shelter later that evening. Thursday morning many of us met at the Lodge for breakfast as well.

Those in attendance from the IAS included Mike & Sandy Wolford, Dan, Debbie & Barabbus (the English Mastiff) Mitchell, Doug & Betsy Brown, Jay Simmons, Terry Steadham, friend George Sears, Jeff Patterson, John Wasmuth and John Molt. About 65 people attended this year – less than in the past probably due to the weather. Our IAS group was the largest affiliation attending again – many times we’re mentioned as being very supportive of others’ events

The star party started off with reasonable observing conditions Saturday but steadily declined to persistent clouds not along after dark Monday and rain by Tuesday lunch. It was extremely soggy and a number of vehicles needed assistance when stuck. By Saturday morning the wind picked up and skies cleared – so much so that there was heavy frost by mid-night – treacherous being on a ladder and difficult to keep optics clear.



By the end of the week getting out was becoming an issue and on all of our minds.

For outdoor enthusiasts there's plenty to do from fishing and boat rental at the nearby lake, golf within the park and hiking on trails in the adjacent woods. Most days I relaxed, visited, read or did housekeeping in the camper. Many others traveled to nearby towns for meals and site seeing too.

It's a great location for the last reasonably nearby star party of the season, not too far away, usually with 6.5 magnitude skies. Accommodations can be anything from camping on the field, to the Lodge, to cabins within the park.

If you've the opportunity to attend it's a great event with good skies, a lot of dobsonian telescopes and hosted by generous people.

Submitted by John Molt

Heart of America Star Party

This is a note from Eric Allen about their trip to the Heart of America Star Party. Just got back from our first Heart of America Star Party near Butler, MO. Four acre Site owned by Kansas City Astronomical Society. They have a 20 X 40 (?) Butler-type building now. No plumbing as yet, but they're working on it. Small, friendly star party with dark skies. Thursday was cloudy and cold. Friday was the same, except for half an hour or so just after dark. Looked good naked eye, but couldn't get set up in the dark fast enough to see much before it clouded up again. Saturday cleared off before dark, and we had a good look around the sky before it got too cold to enjoy it. They said it got down to 26 degrees overnight. About twenty degrees below average, as it was over much of the country. We left Sunday, although people were free to continue observing (no activities) through Wednesday. We were as cold as the proverbial January well digger, but we enjoyed it and will try to go back next year.
Eric

Thoughts From the Pres – We need your help

The public's awareness and interest in astronomy has been raised by current events of astronomical interest, such as the Mars rovers, the Hubble space telescope, the International Space Station, meteor showers and comets here and there. Your society was founded for the purpose of advancing the interests of amateur astronomy. If there ever was a time for you to participate it is now!

The Society receives many requests for assistance from public and private schools, scout troops, and other education oriented groups and institutions. These requests are for speakers, telescopes & mentors for observing, and tours of the observatory. The Board is developing a strategy to use the Link and McCloud even more. We need your ideas

The Society needs your help! Currently less than 20 members are covering the events out of a membership of over 150. We currently have three members who present programs to the scout, school and public groups at the Link. We spent over three thousand dollars on observing facilities at McCloud Nature Park and hold NAG events there each month during the Summer. We plan to add additional observing sessions at McCloud this next year. We need more participation

We need more participants to help with the requests that the Society currently receives. Even attending one such event would be very helpful. As a member, your participation and support is crucial if we are to continue with these programs. Your personal knowledge of astronomy is helpful but not critical, particularly for observing sessions, as we generally need several participants to handle the crowds. Beginners are as needed as experienced members. Remember any experience that you have will probably be more than the person you are talking to. Actually you will find it fun to talk about your hobby and share your experiences.

Contact Jeff Patterson at 317-300-0449 or email him at KB9SRB@Hotmail.com and let him know what you can do for your society. Please do this now as you finish reading this letter. The Society needs to know how to plan for this next summer and for our future.

UP Coming Star Parties For 2009

Nova Sedis Chiefland Fall Star Party – November 9-15, 2009

This is a new star party located in Chiefland Astronomy Village, Florida. Nice time in the year to be in Florida.

2010 Star Parties

Winter Star Party – February 8-14, 2010- Registration is currently going on. Check www.scas.org or call the registrar at 386-362-5995. This party is always sold out and you need to get a ticket early. This is a premium party and the weather is generally fantastic in the Florida Keyes in February.

The Bulletin – The monthly publication of the Indiana Astronomical Society

Smokey Mountain Stargaze 2009 - Just outside Smokey Mountain National Park - TBD. This is a new party. Should be pretty that time of year.

<http://www.smokymtstargaze.com/index.php>

Tennessee Spring Star Party 2009 - Fall Creek Falls State Park TBD

<http://personal.bna.bellsouth.net/s/p/spsmith/default.htm>

Mid-South Stargaze TBD

The Observatory is one mile southeast of the Natchez Trace Parkway at French Camp. French Camp is about half-way between Jackson and Tupelo, Mississippi, at Natchez Trace mile marker 181. Mississippi <http://www.rainwaterobservatory.org/stargaze/index.htm>

Indiana Astronomy Day (IAS/PGO) - TBD

<http://jmmahony.home.insightbb.com/pgo/schedule.html>

Apollo Rendezvous – Dayton, Ohio TBD

<http://mvas.org>

Texas Star Party West Texas May9-16, 2010. This is a premier party with very dark skies and a great site. Just a long way. Online registration will open November 15. www.texasstarparty.org

Tennessee Spring Star Party – TBD

Cherry Springs Star Party Cherry Springs State Park, PA TBD

<http://www.astrohbg.org/s4>

Nebraska Star Party – August 8th - 13th, 2010 - North Central Nebraska - This is a premier dark site and has fantastic observing. However, the weather is brutal. Temperatures can reach 105-110 degrees. However you can cool off in the shade of the tree. All activities will be at the Snake Creek Campground again this year. (I wonder why they call it Snake Creek). No activities will be at the resort. <http://www.nebraskastarparty.org/>

JEPC Star Gazing Event IL Date To be announced

<http://www.mikewolford.com/IEPC%20Event.htm>

Indiana Family Star Party Camp Cullum, Frankfort, IN August 5-8, 2010

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

Black Forest Star Party PA Date To be announced

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

Okie-Tex Star Party – TBD This is reported as one of the darkest sites in the US. It is a great deep sky event.

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

ALCor Observations by Bill Conner

THE HERSCHEL 400 CLUB

This club is meant to be an advanced project for amateurs who already have a fair degree of deep-sky experience. Anyone just starting out should first try the Messier Club. The Messier Club will provide the basic groundwork that this project is built upon. To those who engage in or complete work on the Herschel Club you can be assured that you will know the sky and the instrument you are using. You will also know your own observing skill. Several of our members are currently working on this award.

The Ancient City Astronomy Club of St. Augustine, Florida created the Herschel Club for the Astronomical League. The criteria used for this club was to compile a list of enough objects to present a distinct challenge, yet still be within range of amateurs who possessed only modest equipment and were affected by moderate light-pollution problems. After considerable study, 400 was picked as the best number of objects to comprise the Herschel Club. The AL manual for the club is titled "Observe the Herschel Objects." It may be purchased from the AL Store for \$8. It contains the list, positions and general descriptions of each object. I highly recommend that you obtain this observing aid. You may also download the list from the Astronomical League web site.

All the objects can be seen in a six-inch or larger telescope. All descriptions have been taken from observations by two or more members of the A. C. A. C. Most of these observations were made from within the city of St. Augustine, with average to good sky conditions. Faintest naked eye star visible at the zenith was about magnitude 5.5 in most cases. You will notice a few Messier objects in the listings, also the Double Cluster, along with most of the brighter deep-sky objects that did not find their way into Messier's Catalog. However, beyond these few bright ones, the rest of the Herschel Club objects are faint and inconspicuous. The Virgo galaxy field along with the Monoceros Milky Way will present the toughest challenges.

The Herschel 400 Club - The Rules.

The Astronomical League offers special recognition in the form of a Herschel 400 Club Certificate and pin for those that have observed all 400 of the listed Herschel objects. To qualify you must either be a Member of the Indiana Astronomical Society or another astronomical society affiliated with the League. To obtain an award you must observe the following rules:

Rule 1: Observe all the 400 Herschel objects listed and keep a record of your observations. Your notes must show:

- a. Date of observation;
- b. Time of observation;
- c. Seeing conditions;
- d. Aperture size of telescope;
- e. Power used;
- f. A short note describing your observation of the object.

Rule 2: Have your notebook or record examined by Astronomical League Awards Coordinator or an officer of our Society. A letter noting your achievement will be sent to the AL. A Certificate of Membership in the Herschel 400 Club and an [award pin](#) will be forwarded to our Society for presentation at the next general meeting. The certificate will be suitable for framing.

Link Activities for November:

McCloud Activities–

None Scheduled –

Haley has left and we need to clarify the observing policy at McCloud

Observing Activities

UPDATE ON THE SOLAR CYCLE

Small sunspots associated with Cycle 24 have begun to appear on the solar disk, in both hemispheres and at high latitudes. This sunspot cycle remains unusual, however, lagging behind expected sunspot numbers. The new sunspots are also unusual in that they are without penumbras, the partially darker area surrounding the dark, central umbra of the sunspot.

The Kirkwood Observatory Solar Telescope is open on the "First Saturday" of each month from 1-3 PM. Viewers may even be able to see a solar prominence or two. Solar viewing is, of course, weather permitting. Updated weather conditions and closings will be posted at the Kirkwood Observatory Hotline at (812) 855-7736, and at the Observatory webpage, <http://www.astro.indiana.edu/kirkwood.shtml>.

Monthly openings of the solar telescope are planned for the first Saturday of each month during our 2009 observing season, in celebration of the International Year of Astronomy. And if you want to follow the Sun in between our monthly Solar Telescope openings, the website www.spaceweather.com provides daily updates.

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 McCloud to observe, please call the park naturalist, Haley Samuelson-Couchman, at the park office 765 676 5437 before 4PM on the day you want to go out. As an alternative you can e-mail Haley at McCloudNP@HCParks.net. She will give you permission to be there at night and cut off the lights.

Note: Haley has left the parks department and we need to clarify how to observe at McCloud at off hours. Right now there is no one to shut off the lights.

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

Membership Status

The following changes in membership took place in October:

Current Membership Total: 143

The Bulletin – The monthly publication of the Indiana Astronomical Society

Renewals:

New student members:

New Members:

Michael L. Owens – Anderson

Inactive status:

Barr, Bob – Greenwood

Fisk, James – Indianapolis

Fisk, Kevin – Indianapolis

Mattson, Reino – Mooresville

Morales, Carlos – Indianapolis

Pollack, Edward – Zionsville

Stokes, Rob – Westfield

IAS LIBRARY:

The complete list can be found (<http://www.iasindy.org/memonly/iasfiles.php>, which is password protected). We have a new additions for the library. There is now a link on our website page for our new Multi-Media Library. Greg has built this library of a multitude of videos that are on the web. The only problem is that you will have to have high speed internet to observe these video streams. We think it will be a great addition to our library for both novices and experienced observers. Greg has many more sources to go through so the library will continue to grow. If you have comments or questions about the library please contact Greg McCauley at 317 663-3289 or greg@ultrasoundconsulting.net .

IU Kirkwood Observatory

SEE JUPITER AT KIRKWOOD OBSERVATORY THIS FALL

Kirkwood Observatory on the IU campus will be open each Wednesday evening through the fall, weather permitting! Join us for a night of observing the night sky with the Kirkwood 12" refractor. Please visit our schedule at <http://www.astro.indiana.edu/kirkwood.shtml>, for a list of dates and times. For updated weather conditions and closings, please call the Kirkwood Observatory Hotline at (812) 855-7736.

The IU Astronomy Department has an electronic bulletin to let people know about local astronomy activities and events. If you would like to subscribe, send an email to astdept@indiana.edu and we'll put you on the distribution list. Information about activities and events to be included in the e-bulletin should be sent to catyp@astro.indiana.edu.

Easy Listening:

Weekly pod casts are available at <http://www.astronomycast.com/> for those who love astronomy and want to learn, yet have no time (or desire) to do extra reading. They cover a variety of topics, and feature a different topic each week, so you can choose your flavor. The cast includes Fraser Cain, the publisher of Universe Today (<http://www.universetoday.com/>), and Dr. Pamela Gay, an

The Bulletin – The monthly publication of the Indiana Astronomical Society

assistant professor of physics at Southern Illinois University Edwardsville. You do not need an iPod or portable device to enjoy these.

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@comcast.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.

Do you have a question or need?

We are establishing a list of members who would be willing to receive calls for help on specific objects. If you have a specific skill and would be willing to help others please contact Jeff Patterson KB9SRB@hotmail.com.

Based upon the responses we received to your intro question recently, perhaps we should add a section to the bulletin naming those members who would be willing to receive calls for help on specific subjects.

William Conner (wmtconner@att.net) - for CCD imaging and film photography.
Jeff Patterson (KB9SRB@Hotmail.com) – Observatory design and construction

Public Outreach Programs – If you want to schedule a program at the Link Observatory or at your site, please contact the following people:

Gerald Venne is our Public Events Coordinator. He will be responsible for coordinating Public Events for the IAS. To schedule a public event contact Gerald Venne 1 317 826-2680.

He needs your help. Let Gerald know if you would like to show the public our sky. We need people to help at Link and elsewhere. It is actually a lot of fun.

If you would like to schedule the Link, please contact Gary Schoppenhorst at 1-317-297-1405 or at schoppy@att.net

75th Anniversary Lapel Pins

If you did not receive your Anniversary pin last year, please contact Vicki Switzer. If you want another, you can buy one from Vicki for \$5. If you want a pin mailed to you, contact Vicki and send her a check for \$7 made out to the Indiana Astronomical Society. If you were a member last year and still want your original pin please send Vickie a check made out to the IAS for \$2.00

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

The Bulletin – The monthly publication of the Indiana Astronomical Society

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) 300-0449
E-Mail: KB9SRB@Hotmail.com

For Sale:

8mm Televue Radian \$160
9 mm Nagler Type 6 \$220

John Switzer
2115 North Private Road 50E
Centerpoint, IN 47840
(812) 835-2251

For Sale: - Astro-Physics 400 German Equatorial Mount

Near new condition. Used less than a dozen times.

9 lb. Stainless Steel Counterweight
6 lb. Stainless Steel Counterweight

Wood AP case

AP Encoders and cables

NGC-MAX DSC Computer

\$1700

Contact: Jim Rinehart 317-881-3475

For Sale:

Pentax SMC XL7 eyepiece
\$150 obo

Jim Zdobyak
zobel@aol.com
317-862-4715

For Sale – Takahashi FS-128 F/8.1 apochromatic refractor, Serial No: 01065. Excellent condition! I am the original owner, purchased 3/20/2002. The OTA has an upgraded Takahashi 10-to-1 Micro Edge Focuser and comes with a custom Scopeguard case (silver). \$3200.

The Bulletin – The monthly publication of the Indiana Astronomical Society

If interested, I also have the following FS-128 accessories (not included with the OTA);

TAK Tube Holder
Takahashi 7x50 Finder Bracket
BT-Tak Quick Release
Takahashi 1.25" Diagonal
Kendricks (P-6010-A, Baader) Solar Filter (photographic)
Kendricks (6010, Baader) Solar Filter (visual)
Takahashi 2" Compression Ring Adapter
Takahashi 2" Threaded extension

Daniel Cervantes muddy@bluemarble.net or (812) 361-7746,

For Sale – Sony 21" Model G520 Graphics CRT. Excellent condition, manual, all cables, for \$15. Contact Fritz Kleinhans, Starman@iupui.edu or 317-290-1689 (cell).

Free astrophotography film to good home (or bad). I have dozens of rolls of Kodacolor Royal Gold 400 (red sensitive version) and LE 400 (red sensitive) color negative film. This film has been in the freezer since about 2001 and has expiration dates of about 2002-2003. Contact Fritz Kleinhans, Starman@iupui.edu or 317-290-1689 (cell).

Onions and Orchids

Thanks to everyone that helped make the hog roast a success. Thanks again to Mike Kirsch for his outstanding cooking.

The Equipment Loan Program

The Loan 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 could 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) 989-1875

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

This service is our main communication tool. The list server is accessible only by IAS members. Being a member does **not** mean you are automatically entered into the "Members Only" section. If you are a new member, please go to the "Members Only" section and fill out an application. The Webmaster will set you up and notify you that you can get into the system. Make sure we have your correct e-mail and you will have access for late updates to events and functions.

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Unless you opt out for the List server, you will automatically have access to it when you are approved for the “members only” section.

Note: The list server is for use of Society business. It can only be used according to the rules as outlined previously. Basically it is used to communicate astronomical information to the general Society that would be unique. Please do not send out information from websites that we all generally subscribe to. Also please note: Do not add the list server address to your general address lists. Our problems have generally come from this when a member sends out mail to all their addressees. Members abusing the service will be eliminated from the service.

Board Meeting – Board Meeting November 10, 2008

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 entrance to the building is to the left of Starbucks around on the side. We meet in the basement. Ride the elevator (around the corner to your left) 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 on his cell phone 716-8124 or Jeff Patterson 317 506-0325.

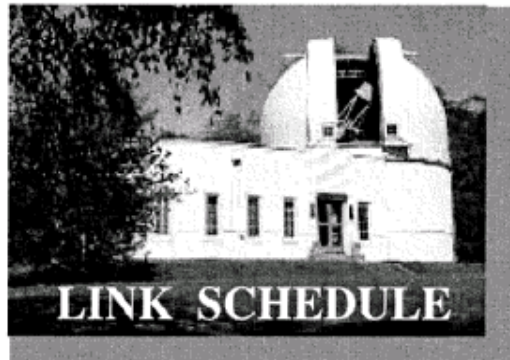
General Meeting Dates 2009

	NAG	General	Board
January		17-Jan	19-Jan
February		14-Feb	17-Feb
March		14-Mar	17-Mar
April		18-Apr	21-Apr
May	2-May 30- May	16-May	19-May
June	27-Jun	13-Jun	16-Jun
July	18-Jul	11-Jul	14-Jul
August	22-Aug	8-Aug	11-Aug
September	26-Sep	12-Sep	15-Sep
October		10-Oct	13-Oct
November		7-Nov	10-Nov
December		19-Dec	

Goethe Link Observatory

Observatory Address

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



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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.*

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) 300-0449

KB9SRB@hotmail.com

Membership information

Contact any IAS officer or the Treasurer John Shepherd (317) 862-3442 or Vicki Switzer

vswitzer42@verizon.net 1 812-835-2251

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) 300-0449

Vice-President and Program Director: Doug Brown (317) 872-4050

Secretary: Betsy Brown 1-317-872-4050

Treasurer: John Shepherd (317) 862-3442

Board of Directors

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Gary Schoppenhorst (2009)
Gerald Venne (2009)
Tom Borlik (2010)
John Switzer (2010)

Ron Burgess (2010)
Greg McCauley (2011)
John Molt (2011)

Public Event Coordinator

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

Library Committee Coordinator

Greg McCauley greg@ultrasoundconsulting.net

Astronomical League Coordinator

Bill Conner wmtconner@att.net 1-812 828-0449

Membership Coordinator

Vicki Switzer vswitzer42@verizon.net 1 812-835-2251

November Calendar, 2009

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Full Moon ○	3	4	5	6	7 General Meeting at Holcomb Observatory
8	9 3rd QTR ☾	10	11	12	13	14
15	16 New Moon ●	17 Board Meeting	18	19	20	21
22	23	24 1 st QTR ☽	25	26	27	28
29	30					

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
- Membership in the Astronomical League
- 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: _____

For the “membership only” section you need to provide a user name and a password:

User name: _____ Password _____

List Server - This service is our main communication tool. The list server is accessible only by IAS members and only for IAS related business. It is controlled very carefully to prevent spam. Unless you opt out for the List server, you will automatically have access to it when you are approved for the “members only” section.

I do **not** want to receive IAS communications via the List Server

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How do you want to receive the IAS monthly newsletter?

Downloadable from Website Hard Copy*

* 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 (\$30.00)	
Annual Student Membership (\$10.00)	
Astronomy Magazine Renewal (\$34.00)	
Sky and Telescope Magazine (\$33.00) (New Subscription)	
Total Enclosed	

Make checks payable to: The Indiana Astronomical Society, Inc

Please complete Member Profile and include with the application

Mail Application to:

Vicki Switzer Membership Coordinator
2115 N. Private Rd 50 E
Centerpoint, IN 47840

Member Profile

Spouse's Name: _____

Children's names and ages: _____

Note: Profile information is not a requirement for membership to the Society.