

The Bulletin – The monthly publication of the Indiana Astronomical Society

February, 2007
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www.iasindy.org

The Bulletin



**The February General Meeting, February 10, 7:00 PM Holcomb
Observatory at Butler University**

SATURN: JEWEL OF THE SOLAR SYSTEM

Many consider Saturn to be the most beautiful object in our solar system. It is one of the highlights of the 2007 spring observing season. Saturn will be particularly well placed for observation this spring. It reaches opposition on February 10th. In late March it will be nearly overhead at 10:00 PM. IAS vice president, Brian P. Murphy, will highlight observing/imaging tips and techniques. Brian will use recent Cassini Orbiter images to examine ring and surface features.

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

We are beginning to plan a joint WVAS/IAS astronomy day event at Camp Cullum in April. We can camp Friday and Saturday night at no charge. It will be a great time kind of in place of NIAG which most of us miss in the early Spring. We plan to invite the public and have a two night event. We need ideas as to how the event would go. If you have ideas contact me at KB9SRB@hotmail.com or 317 882-8055

Comet McNaught

Well looks like most of us missed the excitement. Dave Williams gave a great report of his observation but then the weather set in and it became a southern hemisphere object. It has really brightened and is truly inspiring. Man I hate to miss this one. Maybe next time. See a shot taken by Dave Curtis of New Zealand.



Saturn Days at Cincinnati Observatory

February 24–27

7–9 pm

Four nights to experience the ringed planet. Viewing of Saturn, Venus, and the Moon (weather permitting).

Admission \$4 per person. No reservations required. For more information, call 513.321.5186

The Cincinnati Observatory

3489 Observatory Place

Cincinnati, OH 45208

www.cincinnatiobservatory.org

Get to Know Your Officers

Treasurer – John Shepherd

John Shepherd, “Shep”, was born and raised in the Greenwood area and attended Center Grove High School. John obtained his BS degree in Molecular Biology and a BS degree in Cell Biology from Purdue University in 1980 and graduate studies in Medical Biophysics from IU Medical: Artificial Intelligence and Fuzzy Logic certification from Georgia Tech.

John is employed by Eli Lilly and Company and has held several positions during his 37 years with the company. He currently serves as a Global Validation Coordinator for the Medical Information Technology department.

John is active in several organizations. He is the Vice-President of the Franklin Township 4-H Advisory Board; Business Advisor for the Southeastern Preschool (Indiana’s largest private preschool); Member of the core support Sponsor Team for Eli Lilly and Company’s support for 7 occupational Boy Scout Exploring Posts; and Advisor to the Eli Lilly and Company Computer Exploring Post.

Shep first became interested in astronomy at an early age when he and his father would lay out in the back yard in the summers and look up at the stars and moon. His father later bought his first 2.5” refractor for his 10th birthday. In his early teens he worked during the summers putting up hay and tilling fields to purchase bits and pieces from Edmond Scientific to build his own 6” Newtonian. That first construction was mounted to a sunken fence post out in the middle of the family pasture on a crude German equatorial mount made from scrap pipe and metal plate welded together. John first joined the IAS in 1976 after urgings from Richard Schlegel (a co-worker and former IAS member) but later rekindled his interest after taking a couple astronomy classes from IUPUI Professor Fritz Kleinhaus. He rejoined the IAS in 1999.

SECRETARY: Betsy Brown

Betsy was born in Chicago and raised in Washington, D.C. She received her BA in Art History from Mary Baldwin College in Staunton, Virginia, and earned an MA in Latin American Studies at Indiana University. Her particular interest in Latin America

developed following a summer in Mexico living with her college roommate's family. During her graduate studies, she spent a summer in Montevideo, Uruguay, in conjunction with the Experiment in International Living Program. Her future sister-in-law was also participating in that program, and it was through her that Betsy met Doug after returning to the U.S.

Doug, an Indianapolis native, was finishing up his doctorate in physics at Purdue University when Betsy and he met. They were married a year and a half later. From West Lafayette they moved to Gainesville, Fla., and then to Detroit, Mich., before returning to Indiana.

By the mid-1990's, Doug had renewed his interest in astronomy and started attending IAS meetings. While the sciences had never interested Betsy, she began going to the meetings with him "just for something to do". The friendly atmosphere of the club drew her in and she started enjoying looking through the members' scopes as they introduced her to the night skies. Over time, as she continued to attend meetings and other events, she learned more about the planets, constellations, and deep sky objects.

Presently, Betsy enjoys looking through her husband's Dobs and likes the challenge of finding deep sky objects ("faint fuzzies") on her own. She also enjoys going to star parties, doing the school outreach programs, and participating in other IAS activities. Betsy says the study of astronomy has opened up a whole new world (universe!) for her and she is glad to be a part of the IAS.

Star Party and Observing Etiquette

I ran into this on the website of the Western Kentucky Astronomical Society. As the observing season is quickly approaching, I thought it good to share.

Rules of the Road on the Observing Field

Introduction

You may find this list of observing field rules long and detailed, but largely these center around two things, dark adaptation and respect for the observing equipment on the field. Dark adaptation is necessary for effectively viewing deep sky objects through telescopes. Experienced observers understand this. Others may not. Telescopes on the observing field may range in value from hundreds of dollars to tens of thousands of dollars. The owners have the right to have their equipment protected and respected. Eyepieces can also have a value from tens to hundreds of dollars. So please read these do's and don'ts with those principles in mind.

Bringing Telescopes

This is by no means a requirement, but bring a scope with you if you have one. Don't be embarrassed if you aren't familiar with it or think it may be too small. You will find help using it and may be surprised at what you can see with it. Binoculars are another great way to observe the night sky, so if you can't bring your scope, then bring your binoculars.

Car Lights

Lights are generally the biggest problem at star parties because it takes several minutes on average for your eyes to get used to the dark or "dark-adapted" so you can really see faint objects in the sky. Some newer vehicles have automatic headlights that come on when you start the vehicle and this could be a problem. Some vehicles have the ability to turn this feature off, others do not. Sometimes partially depressing the emergency brake (but not enough to actually engage it) will disable the automatic lights. In either case, please park your vehicle with the headlights pointing away from the field. When you start the vehicle, you will not blind those on the observing field or ruin some ones astrophoto exposure. Another problem is dome lights on vehicles close to the observing field. Either cover it or simply remove the bulb. If you must turn on a white light, call out "White Light" to warn the astronomers.

Cars After Dark

After dark driving on the observing field is extremely dangerous. You could easily run over expensive equipment or worse still someone. If you are going to have to leave during the session, plan to park outside and walk in to the site.

Flashlights

You need one to navigate your way around the dark observing field. Standard flash lights with white bulbs are a BIG NO-NO. Flashlights with a red lens or some type of red filtration are highly recommended. If you do not have one, read up on how to construct a star party friendly flashlight.

Photography

No Flash Photography - The bright strobe of a camera flash can destroy every ones night vision for 45 minutes to an hour. Photographs taken under dark conditions, even with a flash, generally do not turn out well, anyway, unless you're using special film and camera settings. Take all the natural light photos you wish. Obviously, we encourage taking photos of the night sky.

Smoking

Don't smoke around any telescope. Smoke damages telescope optics by settling on the optics and ruining the coatings. Smoking simply should not take place on the observing field. Telescope mirrors and optics represent an investment on the part of the owner and regardless of cost owners hate to see their telescope optics dirtied by tar from cigarette smoke. So be courteous, don't smoke around the telescopes. If you must smoke, please move to an area away from the observing field and downwind of the telescopes (at least 50 feet). Also, have respect for the facility. Do not discard butts on the ground. Please place them in the proper containers. Don't "flick your Bic"- If you must light up, go behind a large vehicle or otherwise thoroughly shield your flame. A lighter is just as bad as a white flashlight.

Alcohol

Alcohol is strictly prohibited on the observing facilities.

Aerosol Sprays

No Aerosol Sprays On The Observing Field. One drop of spray can permanently damage telescope optics. Please do not apply insect repellent spray or use any other aerosol spray on the observing field. Lotions are fine.

Food

Keep food and drinks away from the telescopes - Sticky hands, sloshing drinks, and expensive optics do not mix.

Spitting (Spitting?? Oh! Well!!)

Do not spit - Many times astronomers must be on their hands and knees around the telescopes. Nobody wants to encounter the end results of your chew. There have been instances where an inconsiderate person spit blindly into the dark and hit a box of very expensive eyepieces.

Dogs

Leave your dog home. They are just a problem and males really like to “mark” scopes and equipment.

Music

Some observers enjoy playing music while looking through their scopes. This is acceptable under certain circumstances. Please have respect and ask your neighbors before you turn on the music. If they agree to your playing the music, please keep the volume to a reasonably low level in your observing area. Not everyone enjoys music while observing. Also, please select music that is pleasing to most everyone. Pink Floyd's Dark Side of the Moon is a good selection for backyard observing, but others will probably frown if it's played at a star party. When in doubt, use headphones and a portable player of some sort.

Trash

The common sense rules apply here. If you make a mess, please clean it up. Bring trash bags to place your trash in. Help us keep the facility looking nice and presentable. Generally, we are guests of someone. Let's don't wear out our welcome.

Quiet Mornings

Most observers come to a star party simply to observe from dusk till dawn. Often some will go to bed as the sun is rising. If you are an early riser, please have respect for those still in the sleeping bag. Please try to be as quiet as possible at least until the majority are up and around.

Children

Children are the future of amateur astronomy and we encourage parents to bring them along to the party. A star party can be a very exciting time for most everyone, kids included. Please, keep an eye on your children. There are literally thousands upon

thousands of dollars in equipment out on the observing field. Most scope owners have saved for years to buy their dream scope, or have countless hours in building their own equipment. Children should be instructed not to run or play around the equipment on the observing field. They should also get the owners permission before touching any equipment.

Games

Don't play games that could damage the equipment. I have seen people playing football at Astrofest for example. That is plain stupid.

Touching Equipment

Do not touch a telescope unless the owner has given you permission. Never touch the optical glass of a telescope or eyepiece. The oils on your skin can ruin the coatings.

Big Scopes

Most telescopes are small enough that you can simply walk up and look in the eyepiece, or better yet, you can sit down and look through it. Then there are the "Big Dobs". These telescopes so large that you literally have to climb a ladder to look through them. Some only require a step or two and you are at the eyepiece. Others may require more. It is not uncommon to climb four, five, even six feet up a ladder just to look through the eyepiece. No big deal you say? They can be! Just remember, you are doing this in the dark. When you do go up a tall ladder, be sure to count your steps. If you forget that you are on a ladder and turn around to walk away, that first step could be a doozy! (Lulu) If in doubt, ask the owner to count you down. They will probably be watching you pretty closely anyway. It's better to be safe than sorry. And whatever you do, **DON'T TRY TO BREAK YOUR FALL ON THE TELESCOPE!** Scope owners will not be held responsible if you are injured climbing their ladders. But you will be held responsible for any damage you cause to a scope. By climbing the ladder, you assume the responsibility of getting up and down safely. If you don't think you can get up there and back down safely, don't go.

Walk-a-bouts

It's a lot of fun to walk around the observing field during daylight hours, checking out all of the beautiful scopes that are set up. You can easily see everything in detail. Now try to walk around the field in the dark. Things will look totally different. Have you noticed how much astronomical equipment is black? Use your red filtered flashlight when you walk about the field and keep it pointed toward the ground. Be on the lookout for power cords and tripod legs. Once your eyes become dark-adapted, it will be much easier to walk around the field.

Clothing

Give some thought to this one! Check a weather report prior to an observing session. Astronomy is not much fun if you are not comfortable. Standing around in the night air can be quite cold, even in the summertime. Bring a long-sleeve shirt or a sweater.

Asking Questions

There is a saying that even holds true on the observing field. "There is no such thing as a stupid question. Only stupid people do not ask questions". Now we aren't implying that you are an idiot. . We are just trying to explain that no matter how dumb you may think the question is, go ahead and ask it. Most of us have probably asked the question ourselves when we were getting started in astronomy. A star party is the best classroom for learning about the hobby. You will learn more in two days by asking questions and listening to discussions than you will in a year out on your own.

Have Fun

The enjoyment of a star party is indescribable. Many new friends will be made, you will look through many different telescopes, both large and small, and a sense of satisfaction and fulfillment will be with you as you leave. Most are already looking forward to the next star party even before they leave the observing field.

Last Word

When in doubt, ask. We make every effort for you to enjoy the star party. If you have comments, questions, or concerns at the star party, by all means let one of the club members know. We will try our best to help out and make your visit an enjoyable one.

New Astronomy Publication

I received a notice about a new publication on astronomical equipment. Go to the website and see if it interests you. I have signed up for a free 3 month subscription. I will write an article on it as soon as I can.

The Pres

“Dear Mr. Patterson,

I am writing to announce a new publication that is designed to be of unique interest to all members of the Indiana Astronomical Society.

As its title proclaims, Astronomy Technology Today reserves its pages exclusively for discussion of the equipment, software and services demanded by today's astronomers. Astronomy Technology Today is a print magazine and is published monthly.

Each issue will include departments presenting industry insider news, new product announcements and reviews, guest editorials and in depth looks at your favorite astro product sources.

Also featured each month are dedicated sections on specific topics including astrophotography, eyepieces, observatories, optics, catadioptric, reflector and refractor telescopes, and more. Our format insures far more technology content than is available from any other periodic print resource.

For more information please go to our website at www.astronomytechnologytoday.com.

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As you can see from our website we are currently offering a limited number of free three month trial subscriptions. We believe our magazine will be of special interest to members of astronomy clubs and are emailing club contacts such as yourself to announce the new magazine.

It is our hope that you will let other members of your club know about the magazine so they can sign up for a free subscription.

We do not ask for any advance payment, long term commitment, or any financial information. We simply want astronomy enthusiasts to sign up for the magazine and decide for themselves once they have received the free issues if they would like to continue to subscribe.

We believe that once your members experience the magazine, they will find it an enjoyable and invaluable resource on astronomy equipment and will want to continue to receive future issues.

Please feel free to email me if you have any questions or need further information. And I hope that you will consider signing up for our magazine!

Thank you in advance for help!

Clear Skies!

Stuart Parkerson”

IAS Logo Stuff

We still have IAS logo hats, t shirts, polo shirts, sweat shirts and insulated jackets. Please contact Gerald Venne at the next general meeting.

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

Winter Star Party – February 12-18, 2007- Registration has closed but tickets are always available on Astromart and elsewhere.. 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 fantastic in the Florida Keyes in February.

FYBO Star Gaze – Pennyryle State Park, Western Kentucky - The "FYBO IV" Winter Star Party is planned for Feb 15-17, 2006. The event will be at Pennyryle Forest, home of the TLSP party in the fall. This is an event geared towards the amateur astronomy community. While the public is welcome, we want to emphasize that there aren't any events held specifically for the public. We want this to be an event for serious observers and imagers. This is a very informal, on your own star party. There will not be an organized schedule. The only talks will be those we initiate while trying to stay warm. This is simply an observing party. We will have access to the building to use

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as a warm room, sleeping quarters (bring your own cot and bedding), and we will have the restroom. You may bring your coffee maker if you wish. The lodge will be open during this time for rooms and food, but the showers at the campground will be closed. There is not a required entry fee to this event. If the weather is questionable, use your own judgement. The weather can be unpredictable during this time of the year. As always, if you have questions, drop us a line.

Tennessee Spring Star Party - Fall Creek Falls State Park Mar 16-18,2007
<http://www.personal.bna.bellsouth.net/s/p/spsmith/default.htm>

Mid-South Stargaze 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 Apr 11-14
<http://www.rainwaterobservatory.org/stargaze/index.htm>

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>

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/>

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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.

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- Celestron Nexstar 4GT telescope with Skyalign. Also included area hard shell Celestron case, tripod with built-in wedge, serial computer cable, homemade dew shield and a 25mm SMA eyepiece. This scope comes with the latest programmable hand controller with version 4.03 software. I upgraded to this controller for the improved tracking and Skyalign. The price is \$350.

If interested, please call Jeff O'Dair at 317.856.3860 or my email is jodair2@comcast.net. I can send photos by email if you are interested.

For Sale – Losmandy G-11 Mount and tripod with adjustable legs with Losmandy DSC and polar scope. (Polar scope has a small chip that does not affect its function). Three counter weights and a case for the head are included. Everything works fine. I am just upgrading to a different

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mount. Includes a custom Bill Conner equipment and eyepiece holder. \$2200 contact Jeff Patterson KB9SRB@hotmail.com or 317 882-8055.

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 (lstargazer@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.

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 – February 15, 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**



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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 February:

None Planned until March

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 Paul Miner at the park office 765 676 5490 before 5PM on the day you want to go out. As a last resort you can reach him on his cell phone at 317-371-8222 before 5 pm.

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

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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

Ed Otto ecotto1@comcast.net

February Calendar, 2007

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

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.