

June, 2005  
Volume 72, Issue 6  
www.iasindy.org



# The Bulletin

**The June General Meeting, June 11, 7:00 PM Goethe Link  
Observatory**

**"Progress toward 30-meters, and Beyond"**

**Dr. Caty Pilachowski**

**The decade of the 1990's saw the construction of more than a dozen telescopes that dwarf the 200" behemoth at Palomar, telescopes with apertures more than twice its size. With these new telescopes, astronomers have discovered the acceleration of the Universe and have revealed the presence of more than 150 new planets circling other stars. These new instruments have also given us a peek into stellar nurseries where stars - and planets - are born. Now astronomers are planning even larger telescopes that will allow us to see almost to the beginning of time and space, and to witness the formation of the first stars and galaxies after the Big Bang. These telescopes, with apertures of 20 or 30 meters, will challenge not only our technology, but our imaginations.**

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. Pilachowski 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, Pilachowski 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.

---

**Minor change to the By-Laws –**

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

The Board has approved a proposal to alter the By-Laws to provide that the President of the Society be the main contact with IU rather than the Observatory Manager. Please review these changes and be prepared to discuss and vote on the changes at the June general meeting. Please find the amended by-Laws in their entirety for your review. Approval of the change requires approval of 2/3 of the members present at the meeting.

# **INDIANA ASTRONOMICAL SOCIETY, INCORPORATED**

## **BY-LAWS**

### **PREAMBLE**

The Indiana Astronomical Society, incorporated under the laws of the State of Indiana as a not-for-profit/tax exempt corporation, has for its purpose, the advancement of the interests of amateur astronomy.

The by -laws, herein set forth are to serve the purpose of regulating and coordinating the functions of the Indiana Astronomical Society, Incorporated as defined by its Articles of Incorporation.

## **ARTICLE I**

### **MEMBERSHIP**

(1) Membership shall be open, to persons interested in promoting the purposes set forth in the preamble to these bylaws. The Board of Directors shall have the right to refuse membership to any applicant for due cause, provided that such refusal shall be by a majority vote of the Board of Directors at any regular board meeting at which there is a quorum.

(2) No person shall be refused membership by reason of race, religion, sex or ethnic origin.

(3) Membership shall be classified as follows:

- (a) Regular
- (b) Student
- (c) Friend of the Society

(4) Regular Membership: A Regular membership shall be defined as any individual, his/her spouse, and the immediate family unit who pays the annual membership fee as defined in the by laws. This entitles the individual and spouse in the family unit to receive one monthly newsletter published by

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

the Society, the *Bulletin*; one vote each to the individual and to the spouse in conducting of Society business, and eligibility for either the individual or spouse to run for Society officer.

(5) Student Membership: A student member is one who is currently entitled to be enrolled in high school or college. A student membership entitles student to participate in Society functions and receive the *Bulletin*. The student cannot hold Society offices but may cast a vote in Society business.

(6) Friend of the Society Membership: A friend of the Society is a non-dues-paying member. This entitles them to participate in society functions and receive the *Bulletin*. They do not vote or hold office. This can include but is not limited to other astronomical societies, libraries, schools, planetariums, and individuals who have contributed to the Society.

(7) Application of membership shall be completed upon payment of dues. The Friend of the Society shall be appointed by the Board of Directors.

## **ARTICLE II**

### **DIRECTORS AND EXECUTIVE OFFICERS**

(1) Except as provided by these by-laws 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 of the Society. In addition, each Executive Officer, and the ex-officio officers, the Web Supervisor of the Society's website, and the Editor of the monthly newsletter, the *Bulletin*, shall be voting members 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 the members of the Board of Directors and the Executive Officers shall be 18 years old and older.

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

(5) If a vacancy shall occur 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

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

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 November meeting, designated as the "annual meeting", the Directors shall be elected by the membership to succeed those whose terms expire at that time.

(7) The Executive Officers of the Society shall be President, Vice President, Secretary, and Treasurer, all of whom shall be elected by written ballot at the annual meeting. The term of office for the executive officers will be for one year following their election starting January 1 of the next ensuing year.

(8) No person shall hold more than one Executive Office at a time, with the exception of the ex-officio executive members. 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 the year when a third director is to be elected.

(9) 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* and the Web-Supervisor of the official website, and Observatory Manager. The nominations will be ratified by the Board of Directors. The President will be responsible for communication ~~of policy~~ with Indiana University.

(10) The Vice President shall preside in the absence of the President and shall act as program coordinator.

(11) The Board of Directors shall present an annual report to be submitted to the State of Indiana as required as a not-for-profit / tax exempt corporation. The report shall be verified by the President and Treasurer or by a majority of the Board of Directors, showing the whole amount of real and personal property owned by the Society, where located and where and how invested; the amount and nature of property acquired during the preceding year and the manner of acquisition; expenditures during the preceding year and the purposes of expenditures. Such report shall be filed with the records of the Society and a summary shall be published in the monthly newsletter, the *Bulletin*.

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

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

(13) The Treasurer shall take charge of all monies belonging to the Society, collect dues from the members, and keep accurate records of all transactions. He shall hold Society funds ready for disbursement at the order of the Board of Directors. He shall also maintain insurance documents and file annual corporate papers. In addition, the Treasurer shall update and maintain the IAS Database.

(14) The Board of Directors and Executive Officers shall establish official Society Operating Procedures (SOPS) for the Link Observatory to clarify the requirements of these By-Laws, agreements with the society and other parties, and 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 records of the Society and shall be posted where deemed appropriate.

(15) The Observatory Manager shall be responsible for the accountability of the keys to the buildings and grounds. In addition he shall have the responsibility for routine management of the Link Observatory oriented communications with Indiana University, maintaining an inventory of the IAS property, and scheduling 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, the accounting for all keys issued to the Society, the reporting of the status of the keys to the Board and the issuance of keys in accordance with the directions of the Board.

(16) The Editor of *The Bulletin* has responsibilities of maintaining and publishing the monthly newsletter. It is the Editor's responsibility to maintain a high level of excellence in *The Bulletin*.

(17) The Web Supervisor has responsibilities for the IAS website and its maintenance. It is the Web Supervisor's responsibility to maintain a high level of excellence in IAS Webpage.

### **ARTICLE III MEETINGS**

(1) Members of the Board of Directors and Executive Officers shall be elected at the general membership meeting held in November.

(2) Meetings of the Society shall be held each month and shall be open to the public.

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

(3) Notice of all meetings of the Society shall be mailed to each member before the date of such meeting and shall state the time, place, and purpose thereof.

(4) Ten (10) percent or 20 members of the Society, which ever is greater, shall constitute a quorum. With the exception of the annual election of officers, only those members present shall be allowed to vote. No vote by proxy or absentee ballot shall be recognized.

(5) Five (5) voting members of the Board of Directors shall constitute a quorum of the Board for all purposes.

(6) Special meetings of the Board of Directors may be called at any time by the President or by any three (3) Directors upon at least two (2) days personal notice to each Director.

(7) The order of business at any meeting of the Society shall be as follows:

- (a) Call to order
- (b) Reading of minutes
- (c) Reports of officers and Directors
- (d) Reports of committees
- (e) Old Business
- (f) New Business
- (g) Program
- (h) Adjournment

### **ARTICLE IV**

#### **FINANCES AND DUES**

(1) The amount of the annual membership dues shall be determined by the Board of Directors.

(2) The funds of the Society shall be deposited or kept with a bank or trust company doing business in the State of Indiana. Such funds shall be

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

disbursed upon the order or orders of such officers as may be prescribed by the Board of Directors.

(3) No officer shall receive, directly or indirectly, any salary, compensation, or emolument from the Society. The Society may, however, pay compensation to employees or agents who are not officers or members of the Board of Directors.

(4) The chairperson of any special committee shall annually file a written budget proposal with the Board of Directors to be either modified or approved by the board.

(5) The Board of Directors shall appoint three members of the Society, other than the Executive Officers, to act as auditors and shall examine the annual report referred to in Article II (11) and express their opinion thereon, furnishing copies of such opinion to the President, Treasurer and Board of Directors.

## **ARTICLE V**

### **ELECTIONS**

(1) The Board of Directors shall, at its September meeting, each year appoint a Committee on Nominations consisting of three members of the Society and specify the chairperson.

(2) The Committee on Nominations shall by majority vote make nominations for the offices to be filled at the time of the annual meeting.

(3) The report of the Committee on Nominations shall be published in the Bulletin Preceding the November meeting.

(4) Additional nominations may be made from the floor by any member at the time of the election.

(5) All nominees must agree to serve prior to the election.

(6) Offices shall be filled by election by majority vote of the membership at large at the annual meeting. Votes by absentee ballot shall be recognized provided the signed absentee ballot is received by the Secretary before or during the annual meeting. Votes by proxy will not be recognized.

## **ARTICLE VI**

**COMMITTEES**

(1) The Board of Directors may create special or temporary committees at any time.

**ARTICLE VII**

**RULES OF PROCEDURE**

(1) The rules of procedure at meetings of the members shall be according to Roberts' Rules of Order, Revised, so far as applicable and when not inconsistent with these By-Laws.

**ARTICLE VIII**

**AMENDMENT**

(1) These by-laws may be amended by a 2/3 majority vote of the members present at any regular meeting of the Society with a quorum, provided that the amendment has been submitted by a member in writing at a previous meeting and published in the *Bulletin* preceding the meeting where it is to be voted upon.

**ARTICLE IX**

**DISSOLUTION**

(1) Upon a dissolution of the Indiana Astronomical Society, Incorporated, the assets of the Society shall be distributed for one (1) or more exempt purposes within the meaning of Section 501 (c) (3) of the Internal Revenue Code, or corresponding section of any future federal tax code or shall be distributed to the Children's Museum of Indianapolis, Indiana. Any such assets not so disposed of shall be distributed to the State of Indiana or the City of Indianapolis, Indiana for a public purpose.

---

**New Astronomer's Group McCloud Nature Center 7:00 pm – June 3  
THE NAG MEETING WILL BE HELD, RAIN OR SHINE.**

The next monthly meeting of the IAS New Astronomers Group for 2005 will be held on June 3 at McCloud Nature Center starting at 7:00 pm, just prior to the McCloud Friday Night Observing session.



## **The Bulletin The monthly publication of the Indiana Astronomical Society**

### **Topics for this month:**

- What's up in the June evening sky
- The Lunar 100 – observing our closest neighbor
- 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.

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.

*By John Switzer*

---

### **McCloud Public Night and Observing Session – June 3**

The McCloud Public night and observing session will be held at McCloud Nature Park beginning about 8PM. This is a fun monthly event and is our New Moon Meeting as well. Come on out and show others “our stars”. After the public leaves, you can observe the rest of the night. This event will be canceled in case of inclement weather.

---

### **Board Votes to Increase Family Membership Dues**

.After several years of spending more than we receive, the Board voted to increase family membership dues to \$25 beginning July 1, 2005. There may be some anticipated expenses to improve our situation at McCloud and we would like to have funds to make improvements at Link as well as possibly purchasing some more “loaner” scopes.. We have done an evaluation of membership costs at other societies in the area and we were the lowest and still are below the average of \$32 for a family membership. If you have any questions please contact me and I will explain in more detail.

*The Pres*

---

### **Observer's Corner - Tales of a Wandering Stargazer**

#### **A Visit to Big Bend National Park**

By Bill Conner

My search for dark, clear, and steady skies has taken me to many parts of the country. Some as near as a graveyard 45 miles west of Indy and others as far away as the Texas Star Party near Fort Davis, TX.

Steady skies, required for high resolution astrophotography with long focal length telescopes, are not common in the state of Indiana. I needed a place where I could effectively use my Takahashi Mewlon. Southern Arizona, New Mexico and West Texas are the locations that offer the most frequent steady, clear skies. A remote park, with few visitors and in the right location is a great place to image. After attending the 2004 Texas Star Party with Jeff Patterson and Chris Dietz, I resolved that I would visit the Big Bend National Park on the Rio Grand. The initial idea was to

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

visit just prior to the 2005 Texas Star Party in May, but an opportunity to visit in late February, when the desert was cooler, presented itself.

Big Bend is some 1,500 miles from Indianapolis, so I decided to initiate the trip from my last stop on a business trip that ended in Austin, TX. I chose the southernmost route via Del Rio and Langtree, TX. Langtree was where Judge Roy Bean, held court so I had to stop and see the “Law West of the Pecos.” The Judge was a legend in his own time mainly due to his “colorful” manner of holding court and the last bare knuckles prize fight he sponsored on Mexican soil to avoid the U.S. law prohibiting such fights.

Arriving at Big Bend just at sunset, I was presented with a clear, dark sky. The weather radio indicated that a storm would arrive the next day so I set up the telescope in a parking lot and imaged most of the night. Thursday morning there were 18 campsites available in the Chisos Mountain Camp area and I picked a level one with room to set up the telescope for star parties. My rationale for choosing the high altitude campsite was that it would be cool during the day when I wanted to sleep. The next day I learned that Spring Break for Texas schools was starting and, as a result, all the campsites were filled for the rest of my stay. The fact that the campground was in mountain lion country did not bother me as the place was swarming with deer, their primary food. I did attend one lecture titled “It ain’t wilderness unless something out there can eat you ,” which was presented by a charming young lady ranger. The biggest risk was hitting a javelina with your car. They are a low, round, pig-like animal, which means that they roll under your car and lift the front wheels off the ground. The car then goes in the direction of their roll which can be a quick flip or a crash down a mountain side. Everyone was well advised to drive slowly at night due to this risk. The possibility of having a deer crash through your windshield at night was also of concern.

Discussions with several rangers netted me information on an excellent site that would be ideal for observing and imaging. The only requirement was that I had to stay on a hard surface and I could not sleep outside of the designated campgrounds. I could run my generator for power all night as long as it was clear of combustible foliage. I divided my time between imaging, star parties for campers and completing my Caldwell list. I didn’t have to worry about stepping on rattlesnakes, which tend to warm themselves on the pavement after sunset, as it was too early for them to be out. However, I checked where I walked with a flashlight just to be safe. As it turned out, my only animal visitors were the resident javelinas. I could not see them but I could smell them as they passed upwind and could hear their hoof beats if they ran across the pavement. I was warned to keep my midnight snacks well secured so as to not encourage their visits. Although they look ferocious with those big tusks, they don’t bother you if you don’t provoke them. The rangers checked on me only one night, turning off their lights as they approached. I appreciated the courtesy as I had explained to them what I was doing and showed them my portfolio of astrophotos.

In the Spring, the best time to visit Big Bend for observing is early April during the new moon. March is fine but a bit nippy in the mountains and some rain can be expected. By the end of April it is very hot.

I departed Big Bend with the first quarter moon rising. I was more than one hundred miles away when two vans packed with school children passed me with everyone waving a thank you. They recognized my license plate, “IC GALXZ“, and VW camper that was parked near the star party I had conducted for them several evenings prior.

## Upcoming Star Parties and Registrations

**Apollo Rendezvous & Telescope Fair** - June 10-11, 2005 Dayton, Ohio

[http://www.mvas.org/ar2005/AR2005\\_1.htm](http://www.mvas.org/ar2005/AR2005_1.htm)

**Patoka Lake Star Gaze on the Beach** - July 2nd. Right now the schedule will be similar to last year. We will have 3 programs to present at the Newton-Stewart Nature center starting at 1pm and running through 4pm. We plan to do a Constellations tour after the skies get dark. If you want to help please bring your green lasers. Observing on the beach will begin around 8 or so. Many of us go eat lunch at one of the restaurants in town after the afternoon programs. If you want to join us, meet us at the nature center around 3:30-3:45. We will also do solar observing at the nature center during the afternoon programs. I hope to see you all there.

**Note:** Make plans for attending this one. This year it does not conflict with our general meeting. You can observe all night under really dark skies. Technically you cannot camp but I generally crash in the truck and no one has ever said anything.

**Nebraska Star Party** - The 12th Annual Nebraska Star Party will be held the week of July 31st to August 5th, 2005 at Merritt Reservoir, 27 miles south of Valentine, Nebraska. This is an excellent dark sky party. It is approximately 900 miles from Indianapolis. <http://www.nebraskastarparty.org/>

**Indiana Family Star Party** - August 5-7 Held at Prairie Grass Observatories

**Astrofest** - September 8-11 – Kankakee, Il. This is a good four day party and has a great flea market. It is located at a new location (new last year) called Vana's Farms. It is about the same distance out of Kankakee as the old site but in a different direction.

**McCloud Under the Skies** - September 2-5 McCloud Nature Preserve This is the IAS' own party and is open to the McCloud public as well.

**Prairie Skies Star Party** - September 29 through October 02, 2005. Kankakee, Illinois  
[www.prairieskies.org](http://www.prairieskies.org)

**Twin Lakes Star Party** – October 1-9, 2005 Pennyryle State Park, Kentucky,  
<http://www.wkaa.net/article.php?articleid=56&cat=SE&ret=index.php>

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

---

## NIAG Proves to Be Cold But Enjoyable

### 2005 Northern Indiana Astronomical Group (NIAG) Convention

By Bill Conner

The 2005 NIAG convention was held at YMCA Camp Crosley, just north of Warsaw, Indiana on Saturday, the 23rd of April. As the full moon was near, none of us were expecting decent observing. The overcast and snowstorm Saturday afternoon ensured that all of us could be found at the cafeteria

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

or listening to speakers over at the chapel. The general attendance was good in spite of the weather and full moon.

The speaker subjects included Discovery of Exoplanets by Amateurs, which was ably demonstrated by Dan Kaiser, Cosmology and a review of a microsatellite program. A few stalwarts camped Friday night but even fewer stayed Saturday night. The Indiana Astronomical Society was well represented. We mustered nine participants plus Dan Kaiser as one of the featured Speakers. The group managed to walk off with three door prizes, no Naglers or Telescopes this time around.

There were several interesting home built telescopes in the competition. One had two refractors of different focal lengths mounted on a revolving cylinder, much like an old pepperbox pistol. All you had to do to was rotate the cylinder to change focal lengths.

There was also a nice restored brass telescope on display. Bill Conner placed 1st and 2nd} in the CCD Imaging competition and did the same in the digitally processed photography competition. He also received a second place for his dew and light shield in the accessories competition.

Most of us visited the vendor area at least twice to look for goodies. The chow was served in a timely manner and it was excellent. I didn't see anyone with a hungry look. This is a great first function to attend in the Spring. It is only 2 to 3 hours away, depending on how heavy your foot is and there is plenty of room on the observing field.

---

## **TSP Fun But Cloudy**

*By Jeff Patterson*

Carolyn and I headed out about a week early to visit relatives along the Texas coast before heading to Big Bend and on to TSP. We needed to get our annual refill of sea food as well as seeing relatives. Our daughter has finally come over to being a raw oyster conesor My son in law taught me to eat boiled craw dads or mud puppies as they are called in Texas. One night we each started out with 5 pounds and wound up eating another four apiece. We then headed out for Big Bend on the other end of the state. I lived in West Texas for many years and never went to the Big Bend. The cacti were in bloom and it was very pretty. This is high desert country with mountains (yes mountains in Texas). It was rather dry and already pretty hot. We had fun for a couple of days exploring the canyons of the Rio Grande and enjoying being on vacation. Then we headed north to Ft. Davis and the TSP. Carolyn and I registered and got the motor home located on our site and the scope set up, and met up with Bill Conner, Chris Dietz and Terry Steadham.

TSP is a good place to go although a long way away (1500 miles). Typically one has outstanding observing conditions (we got only three nights out of 6 this year), and there are many options for housing from offsite to camping to dormitories, to cabins. On site housing is limited and is determined by a lottery but they still had camping positions and a couple of RV sites available when we arrived. You can sign up for meals and they serve two excellent meals a day. They open a snack bar at 10 PM and serve a mean brisket burrito. The venue is geared to observing. Nothing starts until about noon. They have excellent speakers and great competitive observing programs. Upon completion of the event you are given a hat pin specifically designed for TSP. There are other things to do as well such as swimming, horse back riding, and tours of McDonald Observatory. A trip to the pool at Balmorhea is also a winner. This is a spring that has been made into a swimming pool and a state park. It flows about a million gallons of cool water a day.

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

The first night started out pretty good until I blew two fuses on the Dob. It was dark and I finally gave up on the goto and just used the setting circles the rest of the night. My plan was to do the binocular challenges first anyway. Later I found out I had set the servo cat up wrong and it would bind in altitude and blow the fuse. I was ok after I drove the 150 mile round trip to get the fuses replaced. I told you it was somewhat isolated there. Teaches you a lesson to have spares of everything and check your equipment in the light. It is a lot easier to problem solve in daylight. There were over 500 in attendance and many big scopes. There were three 36" Dobs on the upper field. As I said they are serious observers. Monday and Tuesday we were clouded out. Wednesday looked bad and went to bed but as per par I looked out about 2AM and it was clear as a bell. Got a good observing run in until the sun came up. Thursday night and Friday night were fair with some clouds each night.

I was upset with the cloudy weather until I realized when do I get 3 out of 6 nights of pretty good observing observing. I finished to Binocular and Telescope challenges. I truly enjoyed myself and am already waiting to apply next January.

---

### **Local School Events and Star Parties**

Gerald Venne has accepted the position of Public Program Chairman. He will be responsible for coordinating Public Events for the IAS. Thanks Gerald.

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 then 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: [JMPSR@Iquest.net](mailto:JMPSR@Iquest.net)

**For Sale:** Celestron Nexstar 11 Brand New with 6 eyepieces, barlow, and 7 filters in Celestron case; dew cap; original boxes \$2,899.00 L.D. Reuter 812-988-7571(06/05)

**For Sale:** Celestron 6" F5 Newtonian on Celestron SP equatorial mount. Dual axis drives and polar alignment scope. Excellent starter scope. All in good condition. \$700.00 Jeff Patterson [jmprs@Iquest.net](mailto:jmprs@Iquest.net) 6/05

**For Sale:** Celestron 20X80 Binoculars. In like new condition. \$250.00 Jeff Patterson [jmprs@Iquest.net](mailto:jmprs@Iquest.net) 6/05

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

**For Sale:** Blaho Binoculars mount. In like new condition. \$200.00 Jeff Patterson  
[jmprs@Iquest.net](mailto:jmprs@Iquest.net) 6/05

---

### **Loaner Equipment Program**

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. Contact John Molt at [1star-gazer@earthlink.net](mailto:1star-gazer@earthlink.net).

---

### **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.

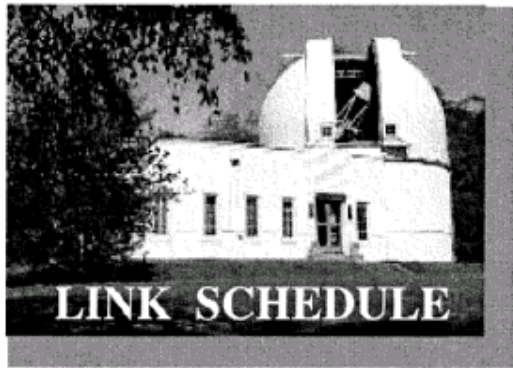
---

### **June Board Meeting – June 16, 2005 - 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.

**The Bulletin The monthly publication of the Indiana Astronomical Society**



**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.*

**Designated Link Observatory Key Holders**

Jeff Patterson: 882-8055  
Tom Borlik: 849-4113  
Gary Schoppenhorst: 297-1405

Brian Murphy: 841-8511  
Dave Williams: 769-7430  
Gerald Venne: 826-2680

**Link Activities for June:**

Observing sessions - June 11 and June 25  
Observer's Meeting – June 25  
Link Training – June 25

General Meeting June 11

**McCloud Activities for June:**

New Moon Group – June 3  
New Astronomer's Group (NAG) – June 3

---

**Bulletin Stats**

**Accessing the Bulletin**

The current bulletin can be found on the website [www.iasindy.org](http://www.iasindy.org) in the "Upcoming Events" section.

## **The Bulletin The monthly publication of the Indiana Astronomical Society**

### **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

[JMPSR@Iquest.net](mailto:JMPSR@Iquest.net)

### **Membership information**

Contact any IAS officer or the membership chairman

Larry Phillips

9413 South PR Black Hawk Hills Dr.

Edinburgh, In 46124

[llpastro@lightbound.com](mailto:llpastro@lightbound.com)

### **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: Larry Phillips (317) 729-2447

Treasurer: John Shepherd (317) 862-3442

### **Board of Directors**

Gary Schoppenhorst (2006)

Gerald Venne (2006)

Thad Hatchett (2007)

Doug Brown (2007)

Bill Conner (2007)

Marion Hakes (2005)

John Molt (2005)

### **Public Event Chairman**

Gerald Venne [gvenne@iquest.net](mailto:gvenne@iquest.net) 1 317 826-2680

### **Library Committee Chairman**

Ed Otto [ecottol@comcast.net](mailto:ecottol@comcast.net)



The Bulletin The monthly publication of the Indiana Astronomical Society

June Calendar, 2005						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3 McCloud> New Moon Event NAG	4
5	6  New Moon	7	8	9	10 <	11 General Meeting General Observing
12	13	14  First Qtr Moon	15	16 Board Meeting 7:00	17	18
19	20	21	22  Full Moon	23	24	25 General Observing Observer's Mtg Link Training
26	27	28  Last Qtr Moon	29	30		

**The Bulletin The monthly publication of the Indiana Astronomical Society**

**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\*

\* 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 (\$20.00)	
Annual Student Membership (\$10.00)	
Astronomy Magazine Renewal (\$29.00)	
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

**The Bulletin The monthly publication of the Indiana Astronomical Society**

**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.