GLPA Newsletter

1991

4 issues — 80 pages
GLPA Newsletter

VOLUME XXVI, NUMBER 1  VERNAL EQUINOX, 1991

GLPA group photo in Indianapolis

Don't miss your Spring State Meeting!  See page 6 for details.
PRESIDENT'S MESSAGE
Dale Smith

In the 1989 Spitz lecture, we were challenged by Roy Gallant to consider the state of scientific illiteracy in our country and its consequences in three global environmental issues: genetic engineering, feeding a runaway population, and nuclear waste disposal. This challenge was profoundly disturbing to me, in part because it jarred my own complacent thinking, but also because I wondered what a small-town astronomer/planetarian could do about it. I am grateful to Roy for raising the challenge.

A recent letter gave me a partial answer, one which I suppose should have been obvious to me all along, but wasn't. Now I rarely save fund-raising letters, but this year's appeal from the A.S.P. caught my eye. It is too long to share in full, but listen to part of it. David Morrison writes (and yes, Dave, I did contribute):

"... The science education crisis we face is quiet, but nevertheless real. Unfortunately, other more visible crises cry for our attention: oil supplies, the economy, drug abuse, the savings and loan bailout. Ultimately, however, solutions for each of these problems will be influenced by the education and motivation of individual citizens, and an innumerate and scientifically illiterate population cannot make rational decisions about issues as diverse as weapons in space, energy supplies, environmental protection, global warming, health care, or the 'war' on drugs.

The study of astronomy alone will certainly not solve the science education crisis. But its visual appeal and intellectual fascination make astronomy the ideal gateway into science for young people..."

Bart Benjamin

In April, many of our local public television stations will begin airing a six-part series entitled "The Astronomers." As previously reported in the GLPA Newsletter, this PBS television series lends itself very well to the establishment of cooperative ventures between planetariums, schools, and the general public. Please consider how your planetarium may be able to "ride the coat tails" of this exciting PBS series, and please send me any news of your successes.

Also, to those of you who call or fax me information for the GLPA Newsletter, my regular telephone number is (708) 456-0300, ext. 408, and my fax number is (708) 456-0049. Please note that for the past 15 months, suburbs of Chicago have had the new "708" area code -- only the city of Chicago still retains the "312" area code.

Attention GLPA officers and state chairpersons! As you may have already noticed, your address and phone number now regularly appears on the GLPA Newsletter masthead or the State News section. Since our members do use these printed numbers to call or write us, please let me know if there are any corrections or changes to this information.

Don't forget to attend your state's spring meeting (see listing in the Bulletin Board section). You'll learn some new planetarium tips, see some new shows, and have a lot of fun in the process. Please note that the deadline for the Summer GLPA Newsletter is Wednesday, May 1st. Have a wonderful spring!
During the spring semester, the planetarium will present *The Power, The Little Star that Could*, and *The Star Show*.

**INDIANA**

Chairperson: Joanna Gordon
Washington Township Plm.
North Central High School
1801 East 86th Street
Indianapolis, IN 46240
(317) 259-5301

On Saturday, April 13th, you are invited to the Tipton Planetarium for a workshop which is designed to be beneficial to anyone interested in or working with planetariums. Please make plans now to participate with others who share your problems and successes. For more information, please contact Dave Parker at (317) 675-7521.

The Evansville Museum Planetarium is pleased to announce the appointment of Charmaine Oxford as their new Science Associate. Charmaine will be presenting and producing planetarium shows as well as assisting in museum projects.

**WELCOME OUR NEW GLPA MEMBERS**

GLPA Secretary/Treasurer David Parker reports that there are four new members since the last GLPA Newsletter listing. They are as follows:

Tom Buckman        Richmond Middle School
                    Richmond, MI
Wayne James        East Central Illinois ESC #13
                    Mansfield, IL
Jeff C. Schilling  J.I. Holcomb Observ. and Plm.
                    Indianapolis, IN
Timothy Spuck      Oil City Senior High School
                    Oil City, PA

The GLPA Membership currently stands at 225.
STATE NEWS (cont.)

MICHIGAN

Chairman: Garry Beckstrom
Longway Planetarium
1310 East Kearsley Street
Flint, MI 48503
(313) 762-1181

Abrams Planetarium in East Lansing opens To Worlds Beyond in March and Where Do I Live? in April. Where Do I Live? is a show produced at the Kalamazoo Public Museum's Planetarium. The Michigan State Science Olympiad will once again be hosted by Michigan State University on April 13. On May 18, the Capital Area Astronomy Club will host ASTROGANZA, a swap meet, "Star Bowl" (an astro trivia contest between astronomy clubs) and other activities. For information, contact Abrams Planetarium.

Chaffee Planetarium in Grand Rapids is currently running its feature show entitled ET: Are You Out There? produced by the Chaffee Planetarium staff, and Larry Cat in Space is running as their family show. Also showing is a new laser light show, Laser Zeppelin produced by the Cranbrook Institute of Science. The Chaffee staff indicates that they hope that once again this year on Astronomy Day they will be able to set up telescope exhibits at several malls. Also in conjunction with Astronomy Day they will be having a special talk by Dr. James Taylor from the University of Illinois. A 14-inch Celestron has been donated to the local astronomy club, headquartered at the planetarium, and they intend to build on to the Veen Observatory there to eventually accommodate it.

Longway Planetarium in Flint is showing When Dinosaurs Roamed in concert with a Dinomation exhibit at the Sloan Museum across the street. This show will run through April 6. On April 13 and 14 Spring Sky Scanning will be seen with To Worlds Beyond opening on April 21st. Larry Cat in Space will run as the family show during this time.

The McMath Planetarium in Bloomfield Hills is premiering Big Glass in March, along with Spring Sky Tonight. Big Glass is a show not only about the Hubble Space Telescope, but about new technology telescopes now being built or planned. Jack Horheimer, of "Star Hustler" fame will present a talk at Cranbrook in conjunction with Astronomy Day.

OHIO

Chairman: Dale Smith
Physics and Astronomy Dept.
Bowling Green State Univ.
Bowling Green, OH 43403
(419) 372-8666

PLEASE NOTE: The Ohio state meeting date has been changed to Saturday, May 4th! Three cluster meetings have been held in the past quarter. CRAP met at Bowling Green for two shows and a potluck dinner on January 26 and at the Midpark Planetarium on February 20 with hosts Bud Linderman and Vince Ruggiero. The Northwest Ohio cluster met at Rogers High School on February 4 to hear about host Richard Shea's travelling astronomy program to Toledo schools. Ohio has another Starlab. With cooperative support, the Lima Astronomy Club recently acquired this portable planetarium and hopes to develop a program to serve area schools.

The Mission to Mars exhibit has opened at COSI in Columbus under the direction of Bill Buckingham, and includes several pieces of Soviet space equipment.

The current show at Youngstown's Ward Beecher Planetarium is Sister Worlds, an exploration of Venus and Mars. Sky Stones, an archaeoastronomy adventure, is currently running at Bowling Green. Both shows are in-house productions.

WISCONSIN

Chairman: Bob Allen
Univ. of Wisconsin Plm.
Dept. of Physics; Cowley Hall
La Crosse, WI 54601
(608) 785-8669

Gary Sampson of Wauwatosa West High School's Planetarium will lead a group of high school students on an astronomy exchange to Australia this summer. They will return via Hawaii to observe the solar eclipse on July 11th.
## GLPA BULLETIN BOARD

compiled by Bart Benjamin

### 1991 GLPA STATE MEETINGS

**ILLINOIS**  
Saturday, May 4, 1991  
Lakeview Museum Planetarium  
Peoria  
Sheldon Schafer, host

**INDIANA**  
Saturday, April 13, 1991  
Tipton Planetarium  
Tipton  
David Parker, host

**MICHIGAN**  
Sunday, May 5, 1991  
Cranbrook Institute's McMath Plm.  
Bloomfield Hills  
Jeff Bass, host

**OHIO**  
Saturday, May 4, 1991  
Shaker Heights High School Plm.  
Shaker Heights  
Gene Zajac, host

**WISCONSIN**  
Fri. & Sat., April 12 & 13, 1991  
Horwitz Planetarium  
Waukesha  
Dave DeRemer, host

### EXECUTIVE COMMITTEE MEETING

The GLPA Executive Committee meeting will be conducted at the Pierce Jr. High School in Merrillville, Indiana beginning at **10 a.m.** on **Saturday, April 27th** and will conclude the following day at noon. Executive Committee members will be receiving more information by mail. Others interested in attending this meeting should contact Gregg Williams at (219) 736-4837.

### V.M. SLIPHER AWARD

During 1991-92, the V.M. Slipher Committee will have $4,500 to award for projects that enhance the public's understanding of astronomy. Preferences will be given to projects requiring seed money for programs that will continue beyond the funding period.

Past grants have included support for radio programs on astronomy, refurbishment of an historic telescope for use in a public observatory, and partial support of teacher workshops.

Applications must be postmarked by May 20, 1991. Notification of grants will be made around July 15th. For more information, please contact Dennis Schatz; V.M. Slipher Committee; Pacific Science Center; 200 Second Avenue North; Seattle, WA 98109.

### NEWS FROM INSTRUCTIONAL MATERIALS

Within the last six months, the script bank has received five new scripts. Dale Smith of Bowling Green State University Planetarium has contributed *Secrets of the Star*, a Star of Bethlehem program; and *Sky Stones*, a discussion of ancient astronomical monuments including Stonehenge and Machu Picchu.

Eric Schreur of the Kalamazoo Public Museum Planetarium has contributed *Haunted Skies*, about the "ghosts" of the autumn sky; *Night of the Falling Stars*, a program about meteor showers; and *Where Do I Live?* a discussion about our location in the universe. Thanks, Dale and Eric for these welcome additions!

### SCRIPT INDEX ON HYPERCARD

Another big thanks to Eric Schreur of Kalamazoo! He has put the entire GLPA script bank index onto Hypercard for the Macintosh. Now you can search by author, title, or key word. System requirements include Macintosh with at least 1 Mb of internal memory and Hypercard version 2.0. For a copy of this valuable resource, send a blank 3.5" disk to Gary Sampson in Wauwatosa, Wisconsin.
BULLETIN BOARD (cont.)

BUEHLER PLANETARIUM OFFERS INTERNSHIP

The Buehler Planetarium at the Broward Community College in Florida is offering a one-year internship. Candidates must have a Bachelor's degree in astronomy, physics, or related field; some experience at a planetarium or public observatory; and a desire to pursue a career in the planetarium field. The internship will provide a stipend of $16,000 for a 40-hour week for 12 months, to begin on July 1, 1991.

The Buehler Planetarium is a newly-renovated facility with a 40-foot dome and 100 seats, a Zeiss M101S star projector, and Sky Skan Automation system. To apply, send a letter of interest, resume, names of two references, and a copy of college transcripts to Dr. David H. Menke, Director; Buehler Planetarium; Broward Community College; 3501 S.W. Davie Road; Davie, FL 33314. The deadline for applications is Friday, April 5, 1991.

BISHOP PLANETARIUM OFFERS PLANETARIUM WORKSHOP

The Bishop Planetarium of Bradenton, Florida will hold its third biennial professional planetarium workshop June 23 - 27, 1991. The workshop touches on all aspects of planetarium operations with a special emphasis on technical areas. Participation is limited to 32. Cost is $295, which includes airport transportation, daily shuttle from the motel to the planetarium, two meals each day, and all handouts and materials.

For a detailed flyer and further information, contact John Hare, Director; Bishop Planetarium; 201 10th Street W.; Bradenton, FL 34205. His phone number is (813) 746-4132.

"THE ASTRONOMERS" ON VIDEO

The producers of the six-part PBS series "The Astronomers" has graciously agreed to supply a videotape of one episode or a 12-minute preview video of the entire series to organizations hosting Astronomy Day events. The producers also suggest that Astronomy Day centers contact their local PBS stations for cooperative events. For more ideas, information, or videotapes, contact Laurel Lambert; KCET; 4401 Sunset Boulevard; Los Angeles, CA 90027.

PUBLIC SAFETY INFORMATION FOR JULY SOLAR ECLIPSE

Seven safety and astronomy organizations have formed a coalition to produce three documents to ensure safe observations and precautions for the July 11, 1991 solar eclipse. These include a media release, a brochure for the general public on safe observing, and an information sheet for educators planning to instruct others in safe observing practices.

A direct mail campaign will distribute these materials to about 2,000 planetariums, museums, astronomy clubs, and universities. If you have not received this information by May 1st, please send a self-addressed, stamped business-size envelope and $1.00 to Safe Eclipse Viewing; National Safety Council; Department PR-28; 444 North Michigan Avenue; Chicago, IL 60611.

ATTENTION BOOK REVIEWERS

George Reed, professor of astronomy at West Chester University in Pennsylvania, has recently written a new book entitled Murdered by Isaac Newton. Dr. Reed has made a copy of his book available to GLPA for review.

If you would like to borrow this book in return for your review of it for an upcoming issue of the GLPA Newsletter, please contact Bart Benjamin at the Cernan Earth and Space Center in River Grove, Illinois.

NEWS FROM DES MOINES' PLANETARIUM

This News Note is from GLPA member Morris Mason: After a three years absence, laser light shows have returned to the Science Center of Iowa in Des Moines. Since the remodelling of the planetarium a year and a half ago, there have been three new public shows, Between Time and Space, which explores the relationship between time, space, gravity, and distance; Cosmic Nomad: the Odyssey of Voyager, which combines Digistar effects with Voyager slide images; and Where it all Began, which examines the possibilities of the beginnings of life on earth. Fantastic Universe, which opens in March, will be entirely composed of Digistar graphics.
DIGISTAR HELPS STUDENTS SOAR INTO MATH AND PHYSICS

Greg Barnes
SpaceQuest Planetarium; Indianapolis, IN

Ever wondered what it would be like to literally step into a mathematical universe -- into a world where sine waves and toroids and Bessel functions surround you in vivid three dimensional shapes that fill the room?

At the Indianapolis Children's Museum's SpaceQuest Planetarium, a group of high school students not only leaped into this world, but they actually created the mathematical objects that inhabit it.

During the Fall, 1990 semester, "Project Outreach" gave these students the tools and skills needed to create 3-D images which could be displayed and visually explored on the planetarium dome using SpaceQuest's Digistar computer graphics projection system.

A joint project of SpaceQuest Planetarium and IUPUI's School of Science, the program was aimed at expanding the planetarium's educational role by making its sophisticated technology more accessible to young people.

Project Outreach had its origins early last year when SpaceQuest hosted a meeting of the Indiana Alliance of Physics Teachers. The group watched a special demonstration of Digistar's features, including some three dimensional polyhedrons developed by Steve Spicklemire of the University of Indianapolis. Dr. Spicklemire created the objects with a software package called Mathematica -- a powerful program which enables the user to easily describe and manipulate mathematical functions and graphically display those functions. Spicklemire wrote a conversion program which transformed the Mathematica files into a format which Digistar could read. The objects could then be projected on the planetarium dome.

Intrigued by these images, Dr. Forrest Meiere of the IUPUI School of Science convinced the University's administrators that high school students could learn to use the Mathematica software to create similar graphics and, in the process, learn a lot about generating graphic solutions to real-world math and physics problems. Together with Physics Professor Gregor Novack, Dr. Meiere recruited eighteen motivated high school students and brought them to the IUPUI Computer Lab on Saturdays throughout the semester.

Once the students had learned the basics of how to use the Macintosh computers and Mathematica software tools, they were encouraged to develop their own self-paced projects based on such classic physics problems as harmonic motion and potential energy behavior. Many students worked in teams and used free time during weekends as well as the Saturday sessions to create their 3-D models.

The project's finale came in December when the students, their parents, and teachers attended a special presentation at SpaceQuest. Each team saw their work displayed on the planetarium's 12-meter dome and described for the audience the unique features of their creations. Awards were given, and IUPUI's Dean of the School of Science, David Slocum, announced that the University had been so impressed with the student's work, IUPUI would offer them a tuition-free semester course of their choice, to be taken even while they were still in high school.

SpaceQuest and IUPUI have invited these talented young people to continue their work on an informal basis, perhaps to help create Digistar graphics to be used in future planetarium programs.

IPS ELECTION RESULTS

The Elections Committee of the International Planetarium Society, chaired by Tom Stec of MAPS, has recently announced the results of the election of IPS officers. New officers include Katherine Becker as Executive Secretary, Keith Johnson as Treasurer, and Jerry Mallon as President-Elect. The IPS officers now stand as follows:

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<th>Name</th>
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<tr>
<td>John Pogue</td>
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<td>Gerald L. Mallon</td>
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<td>Terence P. Murtagh</td>
<td>Past-President</td>
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<td>Katherine Becker</td>
<td>Executive Secretary</td>
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<td>Keith Johnson</td>
<td>Treasurer</td>
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Congratulations and Best wishes to all!
THIS JUST IN . . .

The Adler Planetarium in Chicago, Illinois has an opening for a full-time Outreach Astronomer. One of the goals of Adler's Astronomy Department is to begin an aggressive outreach program to bring astronomical programs into Chicago neighborhoods, schools, and parks, using a portable StarLab planetarium.

Applicants should have a bachelor's degree in education or related field, experience in science teaching, interest in and knowledge of basic astronomy, familiarity with operating computers, and excellent communication skills.

Applicants should submit letters of application, resume, and three references to James S. Sweitzer, Ph.D.; Assistant Director; The Adler Planetarium; 1300 South Lake Shore Drive; Chicago, IL 60605.

AND ALSO JUST IN . . .

April Whitt from The Adler Planetarium has compiled an Astronomy Teaching Resources list that documents children’s astronomy books, teacher reference books, and other educational resources.

Planetarians who wish to receive this list need only send a stamped, self-addressed envelope with 52 cents postage on it to: April Whitt, The Adler Planetarium; 1300 South Lake Shore Drive; Chicago, IL 60605.
**GLPA NEWSLETTER ADVERTISING RATES**

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**ADVERTISING RATES**

- 20% off for camera-ready advertisements.
- An additional 20% off for a one-year purchase of the same advertisement.
- An additional 10% off for GLPA members.
- All advertisements must be paid for at the time of submission.
- Prices subject to change.

October, 1990

**GENERAL ADVERTISING POLICIES**

- All submissions must include advertising copy and directions for composition, and may also include logos and/or line art. Photographs are not recommended.
- Submitted materials will not be returned unless requested.
- The *GLPA Newsletter* reserves the right to refuse advertisements considered inappropriate.
- GLPA's liability is limited to the cost of the advertisement.
- Deadlines for all submissions to the *GLPA Newsletter* fall on the 1st of February, May, August, and November. Issues are published and mailed prior to each equinox and solstice. For more information, please contact Bart Benjamin; Editor, *GLPA Newsletter*; Cernan Earth and Space Center; Triton College; 2000 Fifth Avenue; River Grove, IL 60171; (708) 456-0300, ext. 408.
THE GREAT LAKES PLANETARIUM ASSOCIATION offers membership opportunities to all individuals in any way connected with the operation of planetariums regardless of geographic location. G.L.P.A. is an affiliate of the International Planetarium Society and the National Science Teachers Association. Membership dues are $20 annually, payable at the time of the Autumnal Equinox. General correspondence and requests for membership should be addressed to: Mr. David E. Parker, Secretary/Treasurer (address below). This quarterly GLPA Newsletter is received by all members in good standing. Ideas and opinions expressed in the GLPA Newsletter are not necessarily those of G.L.P.A., its membership, or the editor. Deadlines for contributions fall on the 1st of February, May, August, and November. Send information to: Bart Benjamin, Editor (address below). Copyright 1991.
GLPA Newsletter

VOLUME XXVI, NUMBER 2  
SUMMER SOLSTICE, 1991

ECLIPSE '91
PRESIDENT'S MESSAGE
Dale Smith

We all need to do something different from time to time. As summer arrives, we look forward to a change of pace, vacations and a time to recharge. This past semester, I tried something different by teaching a humanities course on Great Ideas. It was a new feeling to lead discussions on Genesis (the Bible book, not the rock group), Plato, the Magna Carta, and Virginia Woolf.

One of the units was on the Scientific Revolution, and to open it, I asked the students to write down what they thought science was all about and whether they thought of science in a positive or negative way. More seemed positive than I expected, and the characterizations were the standard fare: numbers, facts, learning about the natural world, discovering scientific laws, and the like.

But there was one descriptor of science that appeared nowhere on the student's list, but is very high on my own, and that is beauty. In astronomy especially, we are dealing with things and concepts that are awesomely beautiful.

Visual beauty -- majestic galaxies, nebulae and planets; the simple night sky (which still gets more gasps from my audience than anything else does); these things we all show, but must never get so used to that they become mundane.

Quantitative beauty -- the elegance of equations; how much, for example, the equation of gravity says in so few symbols; the precision and power with which these symbols describe the physical universe.

Conceptual beauty -- the incredible scales of space, time and mass that surround us; the origin of almost every atom in us and around us in the distant stars (think about that connection the next time you walk down a tree-lined street); the little moving ball called Earth we cling to.

This beauty is an integral and energizing part of science. It brings life to that other part of science, rigor and discipline. If we keep this sense in our own sights and can convey something of it to our classes and audiences, we will have brought to them the purest form of science.

EDITOR'S MESSAGE
Bart Benjamin

I would like to express my appreciation to all contributors to the GLPA Newsletter. The timely manner that you have sent in your state reports, bulletin board notices and articles since we instituted the new publication deadlines has certainly made my job a little easier.

This summer issue of the GLPA Newsletter contains the minutes of the Spring Executive Committee Meeting held on April 27th, the evaluations of the 1990 GLPA Conference in Indianapolis and the preliminary information about the upcoming GLPA Conference in Youngstown, Ohio (October 16-19, 1991).

By reading these, you'll better appreciate the many projects that have been undertaken for you, the members of GLPA. Special thanks to GLPA Secretary/Treasurer David Parker for transcribing the Executive Committee Meeting minutes in record time, so that they could be published on pages 10-12.

Also included in this issue of the GLPA Newsletter is an interview I recently conducted with GLPA President Dale Smith. Whether you are an old or new member, you'll enjoy becoming better acquainted with the new president of your association.

Please note that the deadline for the Autumn GLPA Newsletter is Thursday, August 1st. Have a warm and wonderful summer! And clear skies to all of you going to Hawaii or Mexico to see the eclipse!
In April, the Adler Planetarium in Chicago announced the retirement of Planetarium president Dr. Joseph M. Chamberlain after 23 years of service, and the appointment of Paul H. Knappenberger, Jr. as their newly-appointed president. Knappenberger was previously the director of the Science Museum of Virginia in Richmond. Adler also announces the appointment of Charles Brass as their new Outreach Astronomer and Christian Greer as their new Summer Assistant. Summer programs include Update on the Universe and their children’s show, The Littlest Dinosaur. Adler staff will be busy this summer visiting Chicago neighborhood festivals, taking two eclipse trips and hosting a series of programs for the Chicago Park District.

The Cernan Earth and Space Center in River Grove will present the Cinema-360 film The Great Barrier Reef during the summer, along with its new laser light show On the Wings of the Night, which features the music of Pink Floyd. On Saturday, June 15th, the Cernan Center will conduct a public "Planet Party" to observe the close conjunction of three planets in the evening sky. In July, several staff members will travel to Baja to photograph and videotape the eclipse.

The Henry Crown Space Center in Chicago will continue running the Omnimax film Blue Planet through October 17th. On Saturday, July 20th, the Museum of Science and Industry is cooperating with the Chicago Area Space Council to provide a daylong series of activities and programs. Included are talks by Rockford, Illinois astronaut Janice Voss, astronomer Dr. Harvey Hensley from the University of Wisconsin (speaking on "Death of Stars"), and Mark Jacobs from Science Applications International Corporation (speaking on "Helium-3 extraction from the Moon"). A variety of space related exhibits and contests are also planned.

The Lakeview Museum Planetarium in Peoria will present three public programs during summer: Approaching the Limit, which explores the possibility of life on other planets; Teddy’s Quest and Space Bus, which follows a school field trip through the planets of the solar system in the year 2077. Sheldon Schafer and Georgia Neff will both be observing and photographing the July solar eclipse -- Sheldon from Mexico and Georgia from Hawaii.
STATE NEWS (cont.)

Saturday and last Friday of each month.

Longway Planetarium in Flint will present To Worlds Beyond (the Fleet Space Theater production narrated by Patrick Stewart) as their feature show this summer. Larry Cat in Space will continue as their family show as well. Longway continues its equipment updating with the addition of a six screen/four projector deep system. That, along with their six screen/two projector deep all sky system, are under Spice automation control. Their video system is now up to two projectors.

The McMath Planetarium in Bloomfield Hills is planning a major space exploration exhibit, "Destination: Space," which will open this summer at the Cranbrook Institute of Science. In addition, Cranbrook is moving its laser shows out of the planetarium and into their auditorium. They will present beam and atmospheric-style laser shows on a flat screen. Their first show will be Cosmic Space Lasers. The planetarium will also present a sky show throughout the summer.

Governance of the Kalamazoo Public Museum has transferred from the Kalamazoo Public Schools to Kalamazoo Valley Community College. This is the first hurdle in the path to a new museum/planetarium facility. The next hurdle is securing operating millage, which will be placed on the KVCC district ballot for a June 10th election. Cross your fingers for Kalamazoo!

Their planetarium continues to run two feature shows: Skywatchers of Ancient Mexico and Eclipse; two family shows: Spaceship Imagination and Colors and Space; and their seasonal sky show. Kalamazoo also has Michigan's set of "Humanities and the Stars" programs, which can be borrowed by anyone in Michigan or northern Indiana.

The Shiras Planetarium in Marquette recently installed a Sky-Skan automation system, along with a six-slide pan system, a laser disk projection system, slide rotator, and new projection boxes. They are also raising money to replace their aging Spitz A3-P projector. Shows for summer include Galaxies in June, To Worlds Unknown in July, and The Universe of Dr. Einstein in August.

OHIO

Chairman: Dale Smith
Physics and Astronomy Dept.
Bowling Green State Univ.
Bowling Green, OH 43403
(419) 372-8666

Northwest Ohio planetarians met at Tinora Jr. High School near Defiance on April 11th. Host Spencer Grond demonstrated his Viewlex Apollo star projector and described his school programs.

Art Goss reports excellent progress on the construction of the new 50-foot planetarium at the Dayton Museum of Natural History. The Astro-Tec dome is complete and the Digistar projector was installed in early May. Peripheral projectors will go in over the summer and the facility will open in October.

"The Mission to Mars" exhibit at Columbus' Center of Science and Industry closed a very successful run in early June and will now travel to several other cities nationwide. In conjunction, the COSI planetarium has been running The Red Planet: The Mars Show. Bill Buckingham, "Mission to Mars" designer and GLPA Development Committee Chair, has recently moved to Flagstaff, Arizona to become Director of Public Programs at the Lowell Observatory. Congratulations, Bill!

Is There Anybody Out There? has been the show at Ritter Planetarium in Toledo, which has also been running Backyard Astronomy for children. The University of Toledo will also be a SPICA training center this summer.

The Bowling Green Planetarium ran three shows in a short May Days series, including Islands in the Sky, The Little Star That Could and Footsteps. It also featured a rock concert and a hand bell concert in April.

WISCONSIN

Chairman: Bob Allen
Univ. of Wisconsin Plm.
Dept. of Physics; Cowley Hall
La Crosse, WI 54601
(608) 785-8669

CONTINUED ON PAGE 7.
CORRECTION TO GLPA BUSINESS MEETING MINUTES

One correction should be made to the minutes of the GLPA Business Meeting held in Indianapolis last October. In the second paragraph following the Treasurer's Report, it should be noted that GLPA is spending $26.50 per member, not $6.50 per member.

INTERNATIONAL SPACE YEAR -- 1992

The General Assembly of the United Nations endorsed the participation of the United Nations in the International Space Year in 1991-92. Preliminary scope of the UN activities focuses on three major areas: 1) management of the resources of the earth and its environment; 2) long-term education programs; and 3) public education. It is hoped that these activities will provide encouragement to all countries, particularly the developing countries, not only to participate in the applications of space technology, but also to undertake programs that could contribute to the understanding, management, and the safeguarding of the global environment.

Within its public education objective, the UN notes the establishments of "universariums" (i.e. planetariums or space theaters) in major cities throughout the world and encourages the establishment of more such facilities. A booklet on "universariums" will be published during the upcoming year that will focus on the role and impact of these facilities on society, as well as their benefits, design and management and services provided.

For more information, please request the "Guide to the Participation of the United Nations in the International Space Year (ISY) - 1992" from the United Nations in New York. To assist the U.N. in gathering information about planetariums, please read the next news item.

NEW TIPS BOOKLET AVAILABLE

"Tips for Creating a Student Planetarium Training Manual," written by Dave DeRemer from the Horwitz Planetarium in Waukesha, Wisconsin, is now available as a TIPS booklet. The cost of this booklet is $2, and can be ordered from Instructional Materials Committee Chair Gary Sampson. Gary's address can be found on the back page masthead.

WANTED: CURRICULUM GUIDES

Education Committee Chair Dave DeRemer from the Charles Horwitz Planetarium in Waukesha, Wisconsin is asking the membership for copies of K-6 curriculum guides to update the Education Committee's curriculum bank. Dave's objective is to develop a 2-3 week astronomy unit for K-6 or K-8 and suggest a planetarium show for each grade level.

Once completed, this curriculum guide would be included in a GLPA Starter Kit for new planetarians, along with existing scripts, lesson plans, a pronunciation guide, solar system update chart, etc. Dave's address can be found on the back page masthead.

RADIO TELESCOPE INSTITUTE

The Benedum Foundation and West Virginia University is offering a National Radio Telescope Institute sometime in the near future (Ed. No specific dates were given in the announcement I received). The Institute will consist of a combination of course work, lectures, and field
trips to various sections of the NRAO network.

You will have detailed discussions with both resident and visiting radio astronomers, technicians, machinists, and an on-site educator, who will coordinate your future utilization of the facilities there and throughout the NRAO network. The Institute will provide you with a daily stipend ($50 - $60); room and board (hotel style); travel for one round trip to Greenbank; one follow-up meeting at the fall regional meeting; and one day funding for the NSTA national meeting. College credit is offered through West Virginia University (6 hours). You pay only the registration fee of $40.00.

For more information, please send a letter of interest to Pat Obenauf; 604 Allen Hall; P.O. Box 6122; West Virginia University; Morgantown, WV 26506-6122.

SAY YES TO "JUST SAY NO"

The Just Say No Foundation has granted GLPA permission to use its logo for the purposes of encouraging students to "just say no" to drugs and alcohol. The logo could be used, for example, while students are entering your planetarium or awaiting the start of the show. The more exposure and support young people receive, the easier it will be to make this a drug-free society. The Just Say No Foundation has agreed to send out, upon request, copies of its logo, small numbers of brochures for teachers in your district, or a master brochure for you to duplicate yourself.

You may write the Just Say No Foundation at 1777 North California Boulevard; Suite 200; Walnut Creek, CA 94596. Their toll-free phone number is (800) 258-2766.

STATE NEWS
(continued from page 5)

Andrea Gianopoulos of the UW-Fox Valley Planetarium is having great success with her locally produced program for 1st to 4th graders, entitled Blastoff to Adventure. A Spitz A3-P serves as their guide on a journey through the solar system.

Bob Allen from the UW-La Crosse Planetarium reports that his wife Susanna will lead a group of 20 to the Kona Coast of Hawaii to observe the July eclipse. Their planetarium is presenting Journey to the Stars.

The Charles Horwitz Planetarium in Waukesha is presenting Wisconsin: A State for all Seasons. Their director, Dave DeRemer, and Gary Sampson (Wauwatosa West High School Planetarium) will run a Project STAR workshop for teachers in August in Wauwatosa.

UW-Milwaukee has formed an Astronomy Club, to be known as the "Ursa Majors."

Larry Mascotti of the Mayo High School Planetarium in Rochester, Minnesota reports that they welcomed their 500,000th visitor with an open house celebration in April. Their facility, the oldest school-operated planetarium in Minnesota, is 25 years old.
AN INTERVIEW WITH GLPA PRESIDENT DALE SMITH
conducted by Bart Benjamin

Following the resignation of Dan Goins after last October's annual conference in Indianapolis, the responsibilities of GLPA President passed on to Dale Smith of the Bowling Green State University Planetarium in Ohio.

GLPA responsibilities are not new to Dale. He currently is the Editor of the GLPA Proceedings, which are now produced and mailed to the membership within three or four months of the conference. Dale is also responsible for printing and mailing the GLPA Newsletter, using the resources of the BGSU Print Shop and mailroom. Dale has served for seven years as Ohio State Chair and has done much to promote planetariums in his state by forming intrastate regional groups within Ohio. Dale and his staff also hosted the 1988 GLPA Conference. In 1989, Dale received the award of GLPA Fellow for his many contributions to the organization he first joined in 1984.

Dale received his A.B. from Colgate University in astrogeophysics, and his M.S. and Ph.D. in astronomy from the University of Washington. Recently, I had the opportunity to ask Dale Smith a few questions about his background and his thoughts about GLPA and its future. Here are my questions and his replies.

Q: I know that you have conducted a number of astronomical research projects during your academic and professional career. Could you briefly describe a few of these?

A: My dissertation research involved measuring the abundance of aerosols in Jupiter's stratosphere and upper troposphere. We (my advisor and I) measured light curves of the four major satellites as they entered eclipse in Jupiter's shadow. We compared the observed rate of darkening to the rate expected for the case of a clear Jovian atmosphere, and the excess darkening yielded the optical density of the aerosol haze. By using the 200-inch telescope (an awesome experience), we could measure each eclipse in 30 colors simultaneously; this gave us a handle on particle size, and extra darkening in absorption bands yielded the methane abundance. Subsequent projects have involved visible and infrared photometry of distant asteroids and Jupiter's outer satellites.

Q: With your academic background firmly planted in research astronomy, what attracted you to the planetarium field rather than continuing in astronomy research?

A: I've always enjoyed teaching. While in graduate school, I taught part-time at a community college with a planetarium and really liked it. When I was job-hunting in 1983, the hybrid faculty-planetarium job at Bowling Green looked interesting and challenging. (It still is). My initial hope was to mix teaching, research, and the planetarium, but my instincts moved toward the planetarium, its work grew more extensive, and the astronomical research waned. The planetarium field is attractive for a lot of reasons. It combines many things I enjoy doing -- photography, writing, explaining -- with great subject material. The challenge of building a program from the ground up was a strong attraction. Other attractions include the amazing variety in every day, the autonomy and vacations of an academic setting, operating an expensive toy for free, and the wonderful people.

Q: What have you found most rewarding and most frustrating about the planetarium field, now that you've been in it for awhile?

A: Most rewarding -- the sense of doing something good and positive that is beneficial to a lot of people; seeing students of mine going into the field; and the continual learning.

Most frustrating -- all the people who would enjoy the planetarium if they ever came to it, but decide not to; and anything that has to do with raising money.

Q: Do you see any major new directions or special projects for GLPA to pursue in the next few years?

A: When this office descended on me 18 months ahead of schedule, I felt woefully unprepared in
terms of thought-out initiatives, but one goal is to foster the development of local planetarium clusters. We are making progress in Ohio and I understand there is some work beginning elsewhere which I want to encourage.

Second, I want to see us pursue closer ties with the professional astronomy associations (e.g. American Astronomical Society, Division for Planetary Sciences, Astronomical Society of the Pacific). ASP is already active in education, and DPS is about to create an education officer. All three see the need for supporting education, so they should be receptive to working with planetariums. Since I belong to two of them (AAS, DPS) and know some of their key people, this seems like a good time to begin closer contacts.

Third, I hope to conduct a membership survey in the next few months to better profile who we are, what our needs are, and to discover what else we can do to serve our members, particularly the small planetariums that are so important to GLPA. In addition, there is ongoing work to refine our committee structure and increase corporate contacts, and this work will continue.

Q: Do you have any philosophical comments about the role of the planetarium and the status of science education in our society?

A: We all know the sorry state of American science education. Yet planetariums have consistently been sites of good science education. Since joining this field, I have been impressed with how much planetarians know and how well they teach it. We can't solve everything but we can touch a lot of people with some good science and help attract more students into science as a career. We should think of ourselves as central to science education, (witness Project STAR), not ancillary.

We also need to remember that science is bicameral in a way: its pursuit demands rigor, but it is also elegant and deals with things that are beautiful and wonderful. Science education should have this same bicameral nature, and our various planetarium programs -- some live, some recorded -- can accomplish this.

Q: Do you have any other statements or additional information about yourself or the Association that you'd like to direct to the GLPA members at this time?

A: To someone who considers himself still a relative newcomer to this field, it is somewhat intimidating to see all the insights of my predecessors in areas where my own instincts are nil, and I wonder what I can add. The last few years have been a time of great growth in GLPA as a professional association, with larger conferences, more papers, a Proceedings, a budget, etc. GLPA is acknowledged as a leader among the regionals with respect to the services we provide our members and I hope we can continue to build on this strength.

DID ANYONE VIDEOTAPE THIS?
Gary Tomlinson

On June 7, 1989, a live television program appeared on many independent television stations, including many Fox network stations. This program was entitled "Exploring Psychic Powers." It was hosted by Bill Bixby. It was produced by LBS Communications in New York. Appearing on the program was James Randi, speaker at the 1990 GLPA conference in Indianapolis.

I believe that the program was actually trying to prove astrology, auras, etc., but they did a miserable job of it. They proved just the opposite. They offered $100,000 to any psychic power person who could "prove" their discipline works. The producers kept all the money.

I would like to review the program again. In fact, if my memory is correct, I believe it should be mandatory for all teachers to see. The problem is that I didn't record it. Does anybody have a copy?

I have tried unsuccessfully to get a copy from the producers, the TV station, the Committee for the Scientific Investigation of Claims of the Paranormal. Even Mr. Randi doesn't have a copy.

If you have any suggestions for me, please contact Gary Tomlinson; Chaffee Planetarium; 54 Jefferson SE; Grand Rapids, MI 49503. My phone number is (616) 456-3987 (office) or (616) 784-9518 (home). Since I am going to observe the total solar eclipse, I will be absent from my office until August.
MEETING MINUTES


CALL TO ORDER: The meeting was called to order at 10:20 A.M. by President Dale Smith. He welcomed everyone and said that our meeting was organized in basically two parts: 1) serving the members, and 2) administering the organization.

MINUTES: One correction to the annual business meeting minutes was noted. In the second paragraph following the treasurer's report, it should be noted that GLPA is spending $26.50, not $56.50, per person.

TREASURER'S REPORT:
October 1, 1990 to April 20, 1991

RECEIPTS:
GLPA dues............................ $ 2032.00
Conference collected insurance................................. 300.00
Conference collected dues........................................ 2395.00
Conference - other monies........................................ 3564.30
GLPA gift shop.................................................... 210.00
Checking interest.................................................. 167.37
Publications...................................................... 26.00
TOTAL RECEIPTS-----------------$ 8694.67

EXPENDITURES:
Newsletter printing (Aut. & Win.)............................. $ 519.30
Newsletter postage (Aut. & Win.)............................... 74.74
1990 Proceedings preparation............................... 845.00
1990 Proceedings printing................................. 1239.80
1990 Proceedings postage........................................ 72.48
Pronunciation Guide/Tips booklet............................... 110.00
Other postage - GLPA........................................ 135.40
- reimbursed.................................................. 52.35
Supplies - GLPA................................................ 82.34
- membership cards........................................... 10.00
Conference..................................................... 47.25
Conference Planning Committee................................. 7.90
Membership Committee postage.................................. 19.40
Membership brochure.......................................... 183.36
TOTAL EXPENDITURES-----------------$ 3399.32

CHECKING ACCOUNT SUMMARY:
Checking account balance 10/1/90............................. $ 216.62
ADD total receipts........................................... 8694.67
TOTAL......................................................... 8911.29
SUBTRACT transfer to credit union........... - 500.00
SUBTRACT total expenditures...................... - 3399.32
ACCOUNT BALANCE 4/20/91...................... $ 5011.97

SEPARATE FUND ACCOUNTS:
GLPA gift shop........................................ 47.01
Printed materials.................................. 260.75
Slide, tape & software................................. 0.00
TOTAL....................................................... $ 307.76

SAVINGS:
Credit union balance 10/1/90........................... 314.00
Transfer from checking................................. 500.00
Interest............................................... 40.36
TOTAL ASSETS-----$ 838.38

FINANCIAL SUMMARY:
10/1/90 4/20/91
Checking account................................. 216.62 5011.97
Separate fund accounts........................... 307.76 581.46
Credit union account............................. 314.00 654.36
TOTAL ASSETS----$ 838.38 6447.79

All categories of expenses were very closely aligned with their budgeted amounts.

A financial report from Sharon Parker, 1990 conference host, was also reviewed. The hotel did not charge for no-show meals, costs were reduced in other areas, and donations to the conference helped account for most of the $3564.30 profit.

A motion to accept the treasurer's report was approved.

PRESIDENT'S REPORT: Dale asked that travel expenses for the IPS representative be reinstated. The IPS Council meeting is in June in Atlanta. Gregg moved that we reimburse one-third of the IPS rep travel and lodging expenses up to a ceiling of $250. Seconded by Sampson. Motion carried.

Normally, most Executive Committee members ask for the GLPA reimbursement of $0.10 per mile for travel, as stated in the bylaws. Parker spoke in favor of waiting until the next meeting to reinstate travel reimbursement. All budget items will be considered together later in the meeting.

Dale proposed conducting a membership survey. He has a variety of questions that could be asked of members and non-members. Others on the Executive Committee may have several questions that they would like to include. The cost will be around $100. There was discussion about several aspects of the survey, including length, type of questions to include, how to send and return, tabulation, etc. Executive Committee members were encouraged to submit questions in a priority order, and grouped by subject, to Dale by June 1.

The feeling of the committee was to do a survey in the fall Newsletter with a return envelope, the number of questions kept to a reasonable number, and the questions to be selected by Dale, pooling all those from the committee.

Dale reported that he called Mr. Hans Joachim Haubold at the United Nations, who is developing a booklet regarding planetariums. He wants to get planetariums built in developing countries, and in the booklet, describe existing planetariums and how they are operated. Dale offered our expertise in the education arena and offered to provide articles. It was
suggested that The Educational Value of The Planetarium, by Jeanne Bishop, the TIPS Booklet #1, Tips for the New Planetarium, and the Sourcebook be sent. An appeal will be published in the Summer Newsletter for annual reports and other documents that could be useful to Mr. Haubold.

Dale also contacted Paul Hodge, Vice President of the American Astronomical Society, in regards to ways in which our two organizations can work together cooperatively. He said that G.P.A. could receive AAS press release summaries of their most interesting papers for our resource files.

Shapley lecturers could be scheduled to come to school and museum planetariums. The institutions would be responsible for a few hundred dollars of the expenses.

There could be a roster of astronomers to review planetarium shows and scripts for content accuracy.

Dale mentioned a recent surge in interest for educational support within AAS and the Division of Planetary Sciences.

EDUCATION: DeRemer reported that the three projects for last year have been printed. Dale was able to print them because the cost of the Proceedings was less than anticipated. The Pronunciation Guide by Don Tuttle was distributed with the 1990 Proceedings. Copies of the Tips for Creating a Student Planetarium Training Manual and Tips booklet #1, Tips for the New Planetarium are available from Sampson for the cost of duplication and postage.

DeRemer will update the curriculum bank. He will make an appeal in the Newsletter for curricula at all grade levels to be submitted to him. He would like to work out a 2-3 week astronomy unit for K-6 or K-8 and suggest a planetarium show for each grade level for new directors or others interested. Following that, he would like to produce a simple taped program for each grade level in the planetarium with Loch Ness music. No visuals would be provided with the shows.

It was suggested that a starter package be constructed from our existing scripts, curriculum ideas, slide suggestions, lesson plans, pronunciation guide, K-12 goals, solar system update chart, etc., that we can respond with right away.

1991 CONFERENCE: Warren Young and Rick Pirko from the Youngstown State Univ., Ward Beecher Planetarium, presented a slide presentation of their campus and distributed informational materials and a tentative agenda of the 27th conference, which will be held October 16-19. The conference hotel ($55 per night) will be very close to the planetarium.

The agenda was reviewed and some suggestions were made. Some additional time or concurrent sessions would be necessary if the number of papers approaches the level of the last two years. Most G.P.A. members and Executive Committee members expressed the desire to be able to see all papers, if possible. Paper times of different lengths can be offered.

INSTRUCTIONAL MATERIALS: Gary Sampson reported that lots of materials were copied after the conference. Many requests have come from new planetarians. The slide bank is being modified by Mitch Luman and should be a little more user friendly.

Sampson reported that a few scripts were added since last year. Eric Schreur at Kalamazoo placed the script index on Hypercard and it can be searched by descriptor, author, and title. Hard print indexes are also still available, but this software for Macintosh provides much more flexibility. Several requests have been processed for the software.

The Proceedings (1984-90) index will be put on Hypercard, included will be author, title and a 2-line abstract.

PUBLICATIONS: Bart reported smooth operations in the Newsletter and the Proceedings.

The advertising layout and policy was discussed. Bart will produce the ads that are sold by Bill Buckingham and the development committee.

Bart, Dale and Bill will work on getting the advertising information out to potential advertisers.

Dale reported that bulk rate cannot be used if advertising is contained in the Newsletter or the Proceedings - it must go 1st or 2nd class. Dale said that 1 full page ad would cover the extra cost of going from bulk rate to 1st class. Delivery of bulk rate Newsletters has not been very reliable.

The Proceedings requires contributed papers to provide a printed text. Dale would like to encourage invited papers to provide a printed text. Bishop said that asking for a printed text conveys the importance of the occasion. A letter to ask for printed texts, and a form apprising them that their talks will appear in the Proceedings will be sent to invited speakers.

CONFERENCE PLANNING: Barbara reviewed the 1990 conference evaluations. There was a big drop off in attendance from Saturday lunch to the Saturday night banquet. There was discussion about the highest ranked events and how to focus them into the heart of the conference. It was mentioned that the use of evaluations has enabled conference hosts to provide better conferences.

Most people want to hear all the papers presented and do not want concurrent sessions. Gregg suggested the possibility of a policy or guidelines for paper sessions. Several mentioned that such a plan should not be restrictive to local hosts.

Gregg said that some conference hosts are not aware of conference previous preference expressed on the evaluations.

Tomlinson moved that we draw up some guidelines for conference papers and scheduling and the things that are expected of the host by G.P.A., and that alternatives given to the local host also contain guidelines. This would take effect following the 1991 conference. Seconded by Sheldon. Carried.

Steve said that the conference planning committee should be empowered to speak for the Executive Committee in conference planning, since they are the primary contact between the host and the Executive Committee. Gregg moved that the conference host and the conference planning committee work together to reach a mutually acceptable conference plan preceding the conference. Seconded by Steve. Carried. Gregg
April 27, 1991  G.L.P.A. EXECUTIVE COMMITTEE MEETING  Merrillville, Indiana

said that they will work very hard to balance the conference host's creativity and the members' desires for conferences.

Gregg said that there are no future conference invitations. Several possible locations for conferences were discussed and some will be approached about the possibility of inviting GLPA to their facility for a conference.

Gregg and Barbara mentioned that one of the conference examples notebooks is missing. Anyone knowing where it is should return it to them. Gregg and Barbara will create examples notebooks for state meeting hosts.

Concerns were expressed about the length of Executive Committee meetings during the conference. Many agenda items are tied to the budget and need to be discussed prior to the business meeting. Alternatives were discussed. It was decided to begin the meeting Tuesday, Oct. 15, 1991, at 7 P.M.

**MEMBERSHIP:** Sheldon distributed membership lists and some other membership information, prepared by Parker.

Sheldon agreed with all the proposed changes in the secretary/treasurer and the membership committee functions, but once they are in place he will offer his resignation as chair of the membership committee. He felt that his lack of computer experience, computer access and software will limit his effectiveness. He will be glad to continue on the committee, but the chair should have the computer expertise and equipment to manage membership data.

Sheldon views the membership committee divided into three sections: 1) manipulating the database, 2) dues collection and renewals, and 3) brochure, forms, Fellow & Honorary life members, certificates, possibly membership benefits.

**INTERNATIONAL PLANETARIUM SOCIETY:** Gary Tomlinson reported that there has not been any firm action on the proposal to copy slides for IPS. They were concerned about liability insurance that would cover copyright claims. Gregg made a motion that we authorize Sheldon or Tomlinson to check into our liability insurance to see if it covers us copying our slides, and if it does, stipulate that IPS would pay our liability insurance as part of this plan. Seconded by Dale. We can reevaluate in October if they make a counter offer. The motion was amended to also check to see if our current insurance will cover us copying their slides. Motion carried.

The new IPS President is John Pogue, President-Elect is Gerald Mallon, Executive Secretary is Katherine Becker, and Treasurer is Keith Johnson. Gary announced that he will not be able to go to the Council meeting in Atlanta, June 15-16, 1991. Parker agreed to go in his place. Gary will prepare a report for the Council meeting.

**NOMINATIONS:** Steve reported that members of the nominating committee so far are Randy Olson from Wisconsin, and Dan Smith from Indiana. Michigan, Ohio and Illinois will select someone to serve on the committee, also. Steve asked for suggestions of anyone interested in being considered for GLPA Pres.-Elect, Sec/Treasurer, or IPS Representative.

**DEVELOPMENT:** Bill Buckingham, unable to attend, mailed information to committee members before the meeting. Dale reviewed the information, which covered contacting vendors for advertising, providing prominent visibility to vendors at the conference, selling time for vendors to run advertising videos, allowing sponsorship of lectures or other sections of the conference, and contacting science education equipment and materials vendors and textbook publishers.

It was recommended that all contacts, contracts, and arrangements by development be documented.

Bart and Bill will arrange marketing the ads. Bart will just be involved with producing the ads in a technical sense. The contracts should be handled by Bill.

Warren will not solicit donations for his conference except for local or close tie donations and he will assume that donations will be conservative when he sets the registration fee. Bill Buckingham will solicit contributions, donations and door prizes for the conference.

**BUDGET:** It has already been agreed to support 1/3 of the IPS representative travel to the Council meeting up to $250. Gregg suggested that $2000 be put aside, not to be spent except by order of the Executive Committee. Other expenses coming due before the conference include Newsletter printing and postage for two issues and a few other incidental expenses. Gregg moved that we adopt an amendment to the budget allocating up to $100 to the membership survey, up to $320 for Executive Committee travel, up to $300 for the liability insurance, and $2000 into savings, not to be spent. Seconded by Steve. It was mentioned that the President may authorize more to be paid for these items, if unusual or emergency conditions arise. Motion carried.

Dale approved mileage ($.10/mile, $31.00 total) be paid to Gregg for traveling to Tomlinson's place for work on their ad hoc committee.

**BYLAWS:** Several suggested changes in the bylaws were discussed and a mail ballot will be conducted among the members of the Executive Committee at a later date.

**OTHER:** Discussions regarding changes in the officer's handbook were deferred until the fall meeting.

It was agreed to proceed with restructuring of the Treasurer & the Membership Committee as outlined.

Gregg said that he needs to transfer his two databases, companies and locations, to Bill and to Sheldon, respectively. Parker will provide labels for conference use for mailing to members. Gregg can provide a list of other locations and people who are not members of GLPA.

**ADJOURNMENT:** Parker made a motion that the meeting be adjourned. Motion was seconded and carried at 11:57 P.M.

Respectfully submitted,

David E. Parker, Secretary/Treasurer

12
The Ward Beecher Planetarium at Youngstown State University will host the 27th annual conference of the Great Lakes Planetarium Association on October 16-19, 1991. A variety of speakers, workshops, paper sessions, planetarium shows, technology demonstrations and special events are planned for our three-day conference.

LOCATION: The conference will be hosted by the Ward Beecher Planetarium, equipped with a Spitz AP3R star projector, video projectors, and panorama and auxiliary projectors. Its 147 seats are situated under a 40-foot dome, and its companion roof-top observatory contains 14- and 8-inch computer-controlled telescopes.

The Butler Museum of American Art, the Youngstown Historical Society’s Arms Museum (local history) and the Youngstown Historical Center of Industry and Labor (the Steel Museum) are located within two blocks of the Planetarium and conference hotel. The Butler will be featuring an exhibit on holographic art during the run of the conference, and is exploring the possibility of a space art exhibit.

Mill Creek Park, one of the nation’s leading urban parks, is a ten-minute drive away. The autumn colors will be performing at their peak splendor during the conference weekend.

REGISTRATION: Registration materials will be mailed to all GLPA members in early August. If you are not a GLPA member and would like to receive registration materials, please contact Warren Young by August 1. The registration deadline is September 13. The anticipated registration fee will be about $60 per person ($36 for students).

LODGING: The historic Wick-Pollock Inn on the campus of Youngstown State University will be the conference hotel. Formerly a private mansion, the building has become the focal point of an inn that offers modern conveniences but retains its historical elegance and flavor. Rooms are available at a special conference rate of $55 per night/per room. Room rates and availability are guaranteed through September 25. If you would like help finding a roommate for the conference, contact Warren Young by September 1. Complimentary parking is available for hotel guests.

MEALS: A meal package for the duration of the conference will be available for about $90. It will offer a variety of tempting foods, including an hors d’oeuvres buffet on Wednesday evening; continental breakfast breaks on Thursday, Friday and Saturday; lunches on Thursday, Friday and Saturday; and afternoon snack breaks. There will be banquets on Thursday and Friday nights. Most meals will have vegetarian options available.

SPEAKERS: Speakers will include Dr. James Kaler from the University of Illinois, who will return to present our annual astronomy update; Dr. Ron Parise, NASA payload specialist, who will discuss results from the ASTRO telescope mission; and Dr. John White, archaeologist, who will speak on the solstice alignments of Indian mounds in Southwestern Ohio. A major speaker will be announced in the August mailing, and the traditional Spitz Lecture will be given by an outstanding planetarian.

WORKSHOPS: Workshops are tentatively planned on slide preparation for those on the beginning and the advanced levels; on planetarium activities for school groups; and by the inimitable Ken Perkins, who will give a live presentation to a school group. Warren Young is taking workshop requests; THE WORKSHOP PROPOSAL DEADLINE IS JULY 15.

PAPER SESSIONS: If you would like to present a paper at this year’s GLPA conference, please fill out the paper proposal form and return it to Warren Young. THE PAPER PROPOSAL DEADLINE IS SEPTEMBER 16.

GLPA SWAP MEET: By popular demand, the second annual GLPA swap meet will be held at the conference. Start now to save your used projectors, motors, lenses, computers, slide sets, telescope parts, books, etc., anything relevant to planetariums to buy, sell or trade. Individuals and institutions are equally welcome to participate.
Great Lakes Planetarium Association -- 1991 Conference
Youngstown State University
Ward Beecher Planetarium
Youngstown, OH 44555 (216) 742-3616

Call for Papers & Workshops

NAME: ___________________________ PLANETARIUM: ___________________________

ADDRESS: ________________________________________________________________

CITY: ____________________________ STATE: ______________________ ZIP: __________

TELEPHONE: ( ) ___________________________ TITLE: __________________________

ABSTRACT:

TYPE OF PRESENTATION

___ Paper (12 minutes)
___ Paper (6 minutes)
___ Workshop (45 minutes)
___ Workshop (1 hour)
___ Vender Presentation (see below)

LOCATION NEEDED

___ Planetarium
___ Meeting Room
___ No Preference

EQUIPMENT NEEDED

___ Slide projector
___ Video disk & projector
___ VHS video player & projector
___ Overhead projector
___ Star projector
___ 16mm movie projector
___ Cassette tape player
___ 1/4" reel to reel player
___ IBM-compatible microcomputer
___ Other (specify)

NOTE ON TIME LIMITS: Time limits include setup, takedown and question/answer time. Time limits will be strictly enforced. If you must have a longer time, please call the conference host to make arrangement.

REGISTRATION CREDIT: If your paper proposal is accepted and you submit a written copy of your paper prior to the conference, a $10 credit will be applied to your registration costs. Only one credit per person can be allowed.

VENDOR PRESENTATION: Paper sessions may not be used to make sales presentations. If you would like to make a sales presentation or demonstrate a product, please contact the conference host for information about vendor presentations and vendor room sales opportunities.


FOR MORE INFORMATION: Contact Warren M. Young, conference host, at (216) 742-3615.
Please duplicate this form to submit more than one proposal.
Great Lakes Planetarium Association  
Conference Evaluation Results  
1990/Children's Museum/Indianapolis  
April 18, 1991

A total of 61 conference evaluations were returned. Most evaluation questions were rated on a scale of zero to four. Those ratings have been totalled and averaged. The ratings were then converted to a 100 point scale where a rating of 0 indicates that everyone felt totally negative and 100 indicates that everyone felt totally positive about the item.

2. Below is a list of activities and presentations from this year's conference program. Please rate the quality of each event by circling the appropriate numerical rating.

The ratings are listed below, in order from highest to lowest.

<table>
<thead>
<tr>
<th>rank</th>
<th>activities and presentation</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>James Kaler: &quot;1990 Astronomy Update&quot; (Fri morning)</td>
<td>94</td>
</tr>
<tr>
<td>2</td>
<td>James Randi: &quot;Handling the Subjects of Pseudoscience and Crackpot Science&quot; (Thr lunch)</td>
<td>90</td>
</tr>
<tr>
<td>3</td>
<td>Planetarium Presentations: &quot;Alien Adventure&quot; (Wed evening); &quot;TimeTrek&quot; (Thr morning); &quot;Jocko Bear and the Magic Kite&quot; (Fri)</td>
<td>89</td>
</tr>
<tr>
<td>4</td>
<td>Jeanne Bishop: &quot;The Sky's Our Limit&quot; (Spitz lecture; Sat)</td>
<td>86</td>
</tr>
<tr>
<td>5</td>
<td>opening evening at Children's Museum: reception, entertainment, open galleries, treasurer hunt (Wed evening)</td>
<td>84</td>
</tr>
<tr>
<td>6</td>
<td>paper sessions (overall)</td>
<td>81</td>
</tr>
<tr>
<td>7</td>
<td>Ben Bova: &quot;Welcome to Moonbase&quot; (Sat lunch)</td>
<td>80</td>
</tr>
<tr>
<td>8 (tie)</td>
<td>Vendor Showcase: Minolta Corporation and Laser Images (Thr); Loch Ness Productions and Evans &amp; Sutherland (Fri afternoon)</td>
<td>79</td>
</tr>
<tr>
<td>8 (tie)</td>
<td>optional evening at Conner Prairie (Thr evening)</td>
<td>79</td>
</tr>
<tr>
<td>10</td>
<td>workshops (overall)</td>
<td>73</td>
</tr>
<tr>
<td>11</td>
<td>GLPA State Meetings (Sat morning)</td>
<td>71</td>
</tr>
<tr>
<td>12</td>
<td>GLPA 25 Year Retrospective (Sat afternoon)</td>
<td>67</td>
</tr>
<tr>
<td>13 (tie)</td>
<td>free evening (Fri evening)</td>
<td>64</td>
</tr>
<tr>
<td>13 (tie)</td>
<td>New Technologies Showcase (Sat afternoon)</td>
<td>64</td>
</tr>
<tr>
<td>15</td>
<td>Education Resource Room (Sat afternoon)</td>
<td>61</td>
</tr>
<tr>
<td>16</td>
<td>GLPA Business Meeting (Fri lunch)</td>
<td>60</td>
</tr>
<tr>
<td>17</td>
<td>optional visit to Lawrence North High School Planetarium (Wed afternoon)</td>
<td>55</td>
</tr>
<tr>
<td>18</td>
<td>GLPA Swap Meet (Sat afternoon)</td>
<td>24</td>
</tr>
</tbody>
</table>
1. Below is a list of various aspects from this year's conference. Please rate the quality of each aspect by circling the appropriate numerical rating.

The ratings are listed below, in order from highest to lowest.

<table>
<thead>
<tr>
<th>rank</th>
<th>aspect of conference</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>conference facilities (meeting rooms, etc.)</td>
<td>88</td>
</tr>
<tr>
<td>2</td>
<td>hotel accommodations (the Omni-Severin Hotel)</td>
<td>85</td>
</tr>
<tr>
<td>3</td>
<td>preliminary program booklet &amp; pre-registration</td>
<td>71</td>
</tr>
<tr>
<td>4</td>
<td>overall conference schedule</td>
<td>69</td>
</tr>
</tbody>
</table>

3. Below is a list of benefits of joining GLPA. Rate the importance of each benefit to you by circling the appropriate numerical rating.

The ratings are listed below, in order from highest to lowest.

<table>
<thead>
<tr>
<th>rank</th>
<th>benefit of membership</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>annual GLPA Conference</td>
<td>93</td>
</tr>
<tr>
<td>2 (tie)</td>
<td>quarterly GLPA Newsletter</td>
<td>82</td>
</tr>
<tr>
<td>2 (tie)</td>
<td>GLPA Conference Proceedings</td>
<td>82</td>
</tr>
<tr>
<td>4</td>
<td>GLPA Tips Booklets and other publications</td>
<td>75</td>
</tr>
<tr>
<td>5</td>
<td>GLPA Planetarium Sourcebook</td>
<td>73</td>
</tr>
<tr>
<td>6</td>
<td>state meetings</td>
<td>71</td>
</tr>
<tr>
<td>7</td>
<td>slide, script, and software banks</td>
<td>63</td>
</tr>
</tbody>
</table>

4. A GLPA membership runs from October 1st of one year to September 30th of the following year. Including the current membership year (1990-91), how many years have you been a GLPA member?

average number of years a GLPA member: 9.4 years
5. Below is a list of techniques used at this year's conference to handle paper presentations. Please rate each technique by circling the appropriate numerical rating.

The ratings are listed below, in order from highest to lowest.

<table>
<thead>
<tr>
<th>rank</th>
<th>techniques to handle paper presentations</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>schedule equal length for all paper presentations</td>
<td>72</td>
</tr>
<tr>
<td>2</td>
<td>grouping all paper presentations together in the morning</td>
<td>68</td>
</tr>
<tr>
<td>3</td>
<td>concurrent (simultaneous) paper sessions</td>
<td>53</td>
</tr>
</tbody>
</table>

6. Below is a list of scheduling ideas tried at this year's conference. Please rate each idea by circling the appropriate numerical rating.

The ratings are listed below, in order from highest to lowest.

<table>
<thead>
<tr>
<th>rank</th>
<th>scheduling idea</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>grouping all vendor presentations in the dome together</td>
<td>76</td>
</tr>
<tr>
<td>2</td>
<td>extending the conference into Saturday afternoon and evening</td>
<td>39</td>
</tr>
<tr>
<td>3</td>
<td>holding the banquet and Spitz Lecture on Saturday evening</td>
<td>36</td>
</tr>
</tbody>
</table>

7. At some GLPA conferences in the past, transportation has been provided from the hotel to the conference site. The cost was included in everyone's registration fee. Please rate how important it is to you for transportation to be provided by circling the appropriate numerical rating.

<table>
<thead>
<tr>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>transportation between hotel and conference site included in registration fee.</td>
</tr>
</tbody>
</table>
8. Below is a list of the five most recent GLPA conferences. Please rate the overall quality of each conference by circling the appropriate numerical rating. Rate only the conferences that you have attended.

The ratings and number of responses are listed below, in chronological order.

<table>
<thead>
<tr>
<th>conference</th>
<th># resp</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>October, 1986 -- Lewis Research Center, Cleveland, OH</td>
<td>29</td>
<td>75</td>
</tr>
<tr>
<td>October, 1987 -- Merrillville schools, Merrillville, IN</td>
<td>30</td>
<td>80</td>
</tr>
<tr>
<td>October, 1988 -- Bowling Green University, B.G., OH</td>
<td>35</td>
<td>89</td>
</tr>
<tr>
<td>October, 1989 -- Parkland College, Champaign, IL</td>
<td>42</td>
<td>83</td>
</tr>
<tr>
<td>October, 1990 -- Children's Museum, Indianapolis, IN</td>
<td>56</td>
<td>85</td>
</tr>
</tbody>
</table>

average number of GLPA conferences attended: 3.4

9. Below is a list of possible conference activities. Please rate how often you would like to see each activity offered by circling the appropriate numerical rating.

The ratings are listed below, in order from highest to lowest.

<table>
<thead>
<tr>
<th>rank</th>
<th>possible activity</th>
<th>rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>a speaker to provide a yearly update on astronomical research (like Dr. James Kaler this year)</td>
<td>94</td>
</tr>
<tr>
<td>2</td>
<td>a recognized speaker (like James Randi or Ben Bova this year)</td>
<td>87</td>
</tr>
<tr>
<td>3</td>
<td>free time during the conference day to visit exhibits or the slide/script banks</td>
<td>80</td>
</tr>
<tr>
<td>4</td>
<td>a variety of hands-on workshops</td>
<td>79</td>
</tr>
<tr>
<td>5</td>
<td>an evening free to do what you want (like Friday evening)</td>
<td>70</td>
</tr>
<tr>
<td>6</td>
<td>visits to other nearby planetariums</td>
<td>67</td>
</tr>
<tr>
<td>7</td>
<td>visits to local cultural attractions (like Conner Prairie)</td>
<td>59</td>
</tr>
<tr>
<td>8</td>
<td>A GLPA Swap Meet (like Saturday afternoon this year)</td>
<td>48</td>
</tr>
</tbody>
</table>
In recognition of a member's significant career contributions to planetarium education and the Great Lakes Planetarium Association (GLPA), the Executive Committee will consider candidates for **HONORARY LIFE MEMBER** who meet the qualifications listed below.

Any member in good standing with the GLPA may nominate a candidate by submitting an application and supporting documents to the membership chairman.

**CRITERIA FOR HONORARY LIFE MEMBERSHIP:**

1. A candidate for Honorary Life Membership should be nominated on the basis of:
   a. The number of years of membership in the GLPA.
   b. The amount of activity and service to the GLPA.
   c. Professional accomplishments in astronomy and planetarium education.
   d. Active involvement in state and local planetarium organizations.

2. A candidate for Honorary Life Member should be retired from fulltime planetarium education.

The Executive Committee will vote to confer Honorary Life Membership upon nominated individuals on the basis of the above qualifications. An Honorary Life Member will have full membership privileges for life and will be exempt from dues.

Members elected as Honorary Life Members will receive recognition and a certificate of their membership status at the annual Armand Spitz banquet.

**SUBMIT NOMINATIONS TO:**

G. Robert Thomson  
GLPA Membership Chm.  
The Vollbrecht Planetarium  
19100 Filmore  
Southfield, MI 48076
GLPA NOMINATION FORM FOR
HONORARY LIFE MEMBERSHIP

NAME OF NOMINEE: ________________________________

INSTITUTION: ________________________________

ADDRESS: ______________________________________

CITY: _____________________ STATE____ ZIP_____

CRITERIA REQUIRED:

1. Years of membership in GLPA from _____ to present. # Yrs. __

2. GLPA and State conferences attended (Year & Location).

3. GLPA INVOLVEMENT: elective offices held, committee chairmanships, committee memberships, conference host/planning. Include dates.

4. PUBLICATIONS AND/OR CONFERENCE PAPERS PRESENTED - INCLUDE DATES.

5. OTHER PROFESSIONAL ACHIEVEMENTS AND CONTRIBUTIONS.

Please attach additional sheets if necessary.

NOMINATED BY: ________________________________

DATE: _______________________________________

20
Great Lakes Planetarium Association

FELLOW OF GLPA

In recognition of a member's professional status and significant contributions to the Great Lakes Planetarium Association (GLPA), the Executive Committee will consider candidates for the rank of FELLOW of GLPA.

Any current member in good standing with the GLPA may nominate a candidate by submitting an application and supporting documents to the membership chairman.

QUALIFICATIONS FOR FELLOW OF GLPA:

1. Active membership* in GLPA for ten or more consecutive years.

2. Active membership* in GLPA for five or more consecutive years with substantial contributions in at least two of the categories listed below.
   a. Serving GLPA in elective offices, appointed chairmanships, committee work, and/or conference planning.
   b. Relevant and significant publications and/or conference paper presentations.
   c. Active involvement in state and local planetarium organizations.
   d. The development and communication of innovative teaching methods and/or instructional materials of benefit to the general membership.

3. A nominee should be judged as adhering to the GLPA Code of Ethics for the Planetarium Profession.

* Active membership shall mean a dues paying member who has attended a majority of state and regional GLPA meetings.

The Executive Committee will vote to confer FELLOW status upon nominated individuals on the basis of the above qualifications.

SUBMIT NOMINATIONS TO: G. Robert Thomson
GLPA Membership Chm.
The Vollbrecht Planetarium
19100 Filmore
Southfield, MI 48076
NOMINATION FORM FOR
FELLOW OF GLPA

NAME OF NOMINEE: ________________________________

INSTITUTION: __________________________________

ADDRESS: _____________________________________

CITY: ____________________________ STATE _____ ZIP ______

CRITERIA REQUIRED:

1. Years of membership in GLPA from _____ to present. # Yrs. ___

2. GLPA and State conferences attended (Year & Location).

__________________________

__________________________

__________________________

3. GLPA INVOLVEMENT: elective offices held, committe chairmanships, committee memberships, conference host/planning. Include dates.

__________________________

__________________________

__________________________

4. PUBLICATIONS AND/OR CONFERENCE PAPERS PRESENTED - INCLUDE DATES.

__________________________

__________________________

__________________________

5. OTHER PROFESSIONAL ACHIEVEMENTS AND CONTRIBUTIONS.

__________________________

__________________________

__________________________

Please attach additional sheets if necessary.

NOMINATED BY: ________________________________

DATE: ________________________________________
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**EIGHTH PAGE**
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-- An additional 20% off for a one-year purchase of the same advertisement.

-- An additional 10% off for GLPA members.

-- All advertisements must be paid for at the time of submission.

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Bill Buckingham
Lowell Observatory; 1400 W. Mars Hill Road; Flagstaff, AZ 86001
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(419) 372-8666

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(312) 947-5737

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PRESIDENT'S MESSAGE
Dale Smith

HELP! In this issue of the GLPA Newsletter, the Executive Committee is seeking your advice and votes on a variety of topics that affect GLPA. Here they are:

1) We do not currently have a site for the 1992 annual conference. If Columbus could find a new world in 1492, we can surely find a conference site in 1992. Can you help?
2) At this fall's conference, GLPA will elect officers (President-Elect, Secretary/Treasurer, IPS Representative) for 1992-1994. Please read the candidate sketches on page 10 and vote at the conference or by absentee ballot if you cannot attend.
3) During the past year, we have taken a careful look at the By-Laws with an eye to making uniform language and consistency among sections. Substantive changes include creation of a standing Development Committee to seek corporate support and some shuffling of powers between the President and the Executive Committee. At the fall conference, we will seek your approval of revisions to the Bylaws as printed on page 9.
4) We are conducting a membership survey (pages 13-15) to guide us in planning services and benefits. We want to know your ideas and opinions on a variety of topics. The survey includes both multiple-choice and open-ended questions. Your thoughtful responses will help us be aware of your needs and areas where GLPA can help. If you have concerns the questions don't cover, tell us anyway. Everyone's input is important whether you are in a small or a large planetarium. Please reply by October 1 so we have time to read and tabulate responses before the fall conference. Thanks. See you in Youngstown!

With the days getting shorter and the temperatures cooling, it can mean only one thing -- the annual fall conference of the Great Lakes Planetarium Association is fast approaching. Warren Young and his staff at the Ward Beecher Planetarium in Youngstown, Ohio are planning a wonderful conference (see page 12) which you should not miss! See you there!

With the "eclipse of a lifetime" now history, we will all read many articles and see many pictures over the next couple months. Two brief reports (on pages 7 and 8) written by Bob Allen and myself briefly document our eclipse adventures in Hawaii and Baja, respectively.

Keep those reports and articles coming for the GLPA Newsletter! Please note that the deadline for the winter issue is Friday, November 1st. See you in Youngstown!

Bart Benjamin
This fall, the Adler Planetarium will be presenting Chicago's Own Space Explorers, which describes notable astronomers from Chicago's past and present. Their children's show, entitled Sky Eye, features a lost alien as its host. Adler staff members April Whitt and Charles Brass have been asked to coordinate the education for the newly formed Center for Astrophysical Research in Antarctica (CARA) at Yerkes Observatory in Wisconsin. The former Assistant Director of Adler, Dr. James Sweitzer, is now Assistant Director of CARA.

In September, the Cernan Earth and Space Center in River Grove will premiere its newest laser light show entitled On the Wings of the Night, which features the music of Pink Floyd, as well as the return of its popular planetarium show Mysteries of Science. On the afternoon of July 11th, the Cernan Center conducted an Eclipse Watch, which included a specially produced planetarium show, live satellite images of totality from Cable News Network and NASA Select, and safe viewing of the partial eclipse. Over 200 people attended the event. Meanwhile, three Cernan staff members, travelling with a group of nine Chicago astronomers, successfully observed the total solar eclipse under crystal clear skies in La Paz, Mexico (see the article on page 7). Photographs and video taken by group participants were presented to capacity crowds in a special Monthly SKYWATCH back home on July 20th. The Cernan Center is also forming an Education Advisory Board to provide greater resources for local schools.

The Henry Crown Space Center in Chicago will continue running Blue Planet through October 17th. Following a world premiere at Washington's Air and Space Museum on October 2nd and the Chicago Media Premiere on October 4th, the newest Omnimax film Antarctica will premiere to Chicago audiences on October 18th. The Museum of Science and Industry is the executive producer and worldwide distributor for Australia, which will run through May of 1992.

The Staerkel Planetarium in Champaign will present Springtime of the Universe, Space Bus, and Genesis this fall. Director Dave Linton will teach astronomy during the spring semester at a private college north of Tokyo, Japan. These arrangements were made by Parkland College under a contract with the Shimotsuke Gakuen college to provide U.S. accredited college courses to Japanese students. Dave's family will travel with him, and his children will likely enroll in Japanese schools during their stay. Staff member Dave Leake gave a very successful "Perseid Meteor Shower" public presentation in August, followed by a very successful meteor shower observing session.

The Koch Planetarium in Evansville hosted an intern (Mitch Kilburn from Dallas City, Illinois) as part of the Western Illinois University Young Scholar Program over the summer. The Program is underwritten by the National Science Foundation.

Indiana State Chair Joanna Gordon is leaving her position at the Washington Township Planetarium in Indianapolis to enter the internship program at the Strasenburgh Planetarium in Rochester, New York. Good luck, Joanna! Alan Pareis will replace her as Indiana's new State Chairperson.
Michigan

Chairman: Garry Beckstrom  
Longway Planetarium  
1310 East Kearsley Street  
Flint, MI 48503  
(313) 762-1181

No report

Ohio

Chairman: Dale Smith  
Physics and Astronomy Dept.  
Bowling Green State Univ.  
Bowling Green, OH 43403  
(419) 372-8666

Ohio planetarians held their spring meeting at Shaker Heights on Saturday, May 4th. Most Gene Zajac demonstrated his video system and librarian Kelly Johns gave a fascinating talk on the lives of many historical astronomers. The twenty-six planetarians in attendance shared a variety of contributed papers and demonstrated many classroom resources, ideas, and activities. We even learned how to make Oobleck! (remember Bartholomew in the Dr. Seuss story?)

The Copernicus Planetarium at Lourdes College had a busy year in 1990-91 under new director Dolores Kure, who gave a variety of live shows as well as The Voyager Encounters and Larry Cat in Space. School and scout groups were scheduled from October through May and public shows were run on spring weekends.

The fall show at the Bowling Green Planetarium is Destination Universe: Our Future in Space, purchased from the Davis Planetarium in Baltimore.

CRAP enjoyed a summer picnic and pool party at the home of Gene Zajac on June 30th.

Wisconsin

Chairman: Bob Allen  
Univ. of Wisconsin Plm.  
Dept. of Physics; Cowley Hall  
La Crosse, WI 54601  
(608) 785-8669

Dave DeRemer of the Horwitz Planetarium in Waukesha will be presenting Eclipses of the Sun and Moon as his first public program of the school year.

Gary Sampson of the Wauwatosa West High School Planetarium presented a Project STAR workshop the week of August 5-9 to an audience of 25.

Bob Allen from the UW-LaCrosse Planetarium led a group of 12 to view the total eclipse in Hawaii (see his article on page 7). In October, the LaCrosse Planetarium will present To Worlds Beyond (a San Diego Fleet Theater production) as their public program.

In the neighboring state of Minnesota, Bob Bonadurer of the Minneapolis Public Planetarium is doing a survey on family oriented programs. He hopes to present his results at Youngstown.

Welcome Our New GLPA Members

GLPA Secretary/Treasurer David Parker reports that there are four new members since the last GLPA Newsletter listing. They are as follows:

Mary Ann Mullahy  
Milwaukee Public Schools  
Milwaukee, WI

Amy Gonnerman  
South Indiana Education Center  
Huntingburg, IN

Dr. Joseph Strickler  
Valley City State University  
Valley City, ND

Matt Mullen  
Chicago Board of Education  
Chicago, IL

The GLPA membership now stands at 251.
FALL EXECUTIVE COMMITTEE MEETING

The fall GLPA Executive Committee Meeting will begin at 9 a.m. on Wednesday, October 16 in Youngstown, Ohio. Executive Committee members will be receiving more information by mail. Others interested in attending this meeting should contact Warren Young at (216) 742-3616.

THANKS TO GREGG, BARB AND SHELDON

With regret, the GLPA Executive Committee must announce that Gregg and Barbara Williams have resigned as co-chairs of Conference Planning, and Sheldon Schafer has resigned as chairperson for the Membership Committee.

Gregg, Barb, and Sheldon have each worked tirelessly for GLPA and deserve our thanks for a job well done!

NEW CHAIRPERSONS NAMED

Eric Schreur, from the Kalamazoo, Michigan planetarium, has accepted the appointment as GLPA’s new Membership Chairperson. Gary Tomlinson, from the Grand Rapids, Michigan planetarium, has accepted the appointment as GLPA’s new Conference Planning Chairperson.

Best of luck to both Eric and Gary!

ASTRONOMY DAY 1992

Saturday, May 9th has been designated as Astronomy Day for 1992. Every year since 1973, astronomers throughout the world have hosted special events for the public. To assist planetariums and astronomy clubs in "taking astronomy to the people," the Astronomical League has published a 120-page handbook which describes ideas for special events, provides lists of helpful companies and organizations, and provides complete rules and entry forms for the Astronomy Day Award.

WANTED: ASTRONOMY RESOURCE MATERIALS

The Ceman Earth and Space Center of Triton College is in the process of compiling an "Astronomy Education Resource File." This file, which will contain materials for teaching astronomy to primary and secondary grades, will be made available to Chicago-area educators.

Materials will include "The Astronomers" Educator’s Packet and materials from other public television programs related to astronomy, Project SPICA materials, and various planetarium-produced school materials.

If you have, or know of, astronomy resource materials that could be included in the Ceman Center's Resource File, please contact Elizabeth Stiles, Educational Programs Coordinator, Ceman Earth and Space Center, Triton College, 2000 Fifth Avenue, River Grove, IL 60171 or call her at (708) 456-0300, ext. 294.

NEWS FROM NEWARK

According to Director Gloria Rall, the Dreyfuss Planetarium of the Newark Museum will reopen to the public on November 9th, after a complete renovation of the planetarium building, including modifications to its old Minolta MS-8 star projector. Their opening programs will be Universe and Teddy’s Quest from the Strasenburgh Planetarium. Attendance is anticipated to be 65,000 for the first year.

Recent staff appointments have included Kevin Conod as staff astronomer, and Scott Niskach as education coordinator. Gerard Onsarge has retired from the planetarium.

(continued on page 8, column 2)
ECLIPSE '91
FROM HAWAII . . .

As mentioned in the Wisconsin State News, Bob Allen from the University of Wisconsin-La Crosse Planetarium led a group of 12 to view the total solar eclipse in Hawaii. Members of his group were from Minneapolis, La Crosse, Madison, Milwaukee, and Chicago.

Here is Bob Allen's account of their adventure:

We stayed at the Hilo Bay Hotel for most of the week of the eclipse. This gave us plenty of time to tour Volcano National Park and Akaka Falls before the eclipse. Also, there was a nice astronomical art exhibit at the Wailoa Center in Hilo and at the national park.

We drove to a site about 10 miles north of Kailua on Highway 19, near mile marker 88, on Wednesday afternoon. We parked on a side road which led to a public beach. It was mostly cloudy Wednesday evening, and rained from about 2 a.m. until 3 a.m. Thursday morning.

On Wednesday evening, we met Hans Mahler, a German who was on a bicycle. He had seen 12 previous eclipses. He was planning on moving to a different site if the clouds didn't break by sunrise.

We did get a few breaks around sunrise, but didn't see the sun then. We didn't see the sun at first contact around 6:30 a.m. Our first glimpse of it came when we saw it through a hole about 6:45. This lasted about 5 minutes and filters were needed. The next break came about 7 a.m. This also lasted about five minutes, but we viewed it without filters as thin clouds made it impossible to use filters then.

The sun then disappeared behind clouds. It was fairly obvious by about 7:15 that it would not reappear at our site. We hastily threw equipment into our rental cars (Hans went along with us) and moved south about 2 miles on Highway 19. We were very near mile marker 90 then.

It was about 2 minutes until totality at this point. I was going to photograph totality through a 3 1/2 inch Questar, but opted to use a 400mm lens due to the proximity to totality and uncertainty about how long it would be before totality.

We had a stopwatch, so we had a good reminder during the 4 minutes of exactly how much time was left. This aided in deciding how much time to spend on various aspects. My favorite view was through 11x80 binoculars.

Afterwards, we returned to our earlier location. Totality was not seen from there. We consider ourselves lucky to have seen it. I've tried to estimate how many saw totality, and would liberally estimate that perhaps 25% of those who attempted to come visit the Big Island did. Our view of the outer corona was diminished some due to some thin clouds and/or volcanic dust, but all in the group were pleased with our success.

. . . TO BAJA

As mentioned in the Illinois State News, three staff members from the Cernan Earth and Space Center of Triton College in River Grove, Illinois, travelling with a group of nine Chicago astronomers, successfully observed the total solar eclipse from La Paz on the Baja peninsula of Mexico.

Following is Bart Benjamin's report of their eclipse trip:

Our "Baja Bunch" of twelve enthusiastic astronomers arrived at the Palmira Hotel in the city of La Paz in late morning of Sunday, July 7th after a "red eye" flight from Chicago through Mexico City.

For the next several days, members of our group enjoyed Baja's hospitality in a number of ways: attended the Symposium for Research Amateur Astronomy (conducted at our hotel), toured and shopped in downtown La Paz, swam in the hotel's outdoor pool, took a glass-bottom boat trip to an offshore island for swimming and snorkelling in the warm Pacific Ocean, and were driven a short distance out of the city to observe the dark, nighttime sky through telescopes.

The weather was clear and hot all week, yet the low humidity kept it very comfortable. On Tuesday evening, a blanket of clouds moved in from the Gulf of California (worrying many of us) but by the next morning they had disappeared, leaving behind another sunny and pleasant day.

On Thursday (Eclipse Day) we had the clearest skies of the trip! The organizers of our Symposium had made prior arrangements for us
to observe the eclipse from an abandoned swimming and tennis club on the top of a nearby hill. From this vantage point looking west over the bay, we could observe the approaching lunar shadow darken the mountains that form the backbone of the Baja peninsula.

First contact occurred at 10:23 a.m. MST, approximately seven minutes before totality began in Hawaii. All the well-known phenomenon were observed during the partial phases -- the drop in temperature, the sharpening of shadows, the dimming of the ambient light, and the darkening of the western sky. The planet Venus was easily seen at least 30 minutes before the onset of totality. During totality, Mercury and Jupiter were easily seen as well. Together, the three planets resembled pearls on a celestial necklace that extended from the eclipsed sun overhead toward the eastern horizon.

By the time totality began at 11:48, the sun had risen to an altitude of 82 degrees. Observing flat on our backs, we watched in awe as the natural progression of eclipse events began to unfold. The diamond rings were even more beautiful and awe-inspiring than any of us "eclipse virgins" had expected. Shadow bands were seen by those who could tear themselves away from the spectacle in the sky. The corona displayed amazing streamers, spikes, and filamentary detail, and the "eclipse veterans" of our group commented that the corona was brighter than they had seen at previous eclipses. As a bonus, at least two large prominences were seen.

Equally impressive and unexpected were the variety of colors we saw, which, unfortunately, can never be captured well on film. These colors included the deep, deep blue of the sky overhead, with orange borders along the entire horizon; the pearly, slightly greenish glow of the delicate corona; the intensely bright orangish-pink prominences; and the jet-black moon in the center of it all!

It was the shortest 6 minutes and 23 seconds that any of us had ever experienced! Some of us viewed the eclipse through binoculars (I used 10x50's) or small "comet-catcher" telescopes, while others spent most of their time viewing the eclipse through cameras viewfinders. However it was observed, the total eclipse was a stunningly beautiful sight. I wish I could have shared it with all my family and friends. I can't wait for the next one!

The Middle Atlantic Planetarium Society (M.A.P.S.) recently held their annual conference at the Franklin Institute in Philadelphia and elected new officers.

Joyce Towne, Manager of Media Services at the Franklin Institute's Fels Planetarium, was elected to serve a two-year term as president-elect, after which time she will succeed Steve Mitch, the current president, for a period of four years.

Ms. Towne was previously M.A.P.S. Secretary, and will now turn that office over to Samuel Storch of the Hubble Planetarium in Bronx, New York. Steven Russo, Director of the Southern Cayuga Planetarium in Poplar Ridge, New York, will serve as M.A.P.S. Treasurer.

Next year's M.A.P.S. conference will be held in Pittsburgh.
BYLAW AMENDMENTS

At their Spring Meeting, the Executive Committee decided to make one substantive revision to the GLPA Bylaws (in Article VII) and create a new Article XIV to define the order of precedence of authority. These proposed changes are presented below and will be voted on at the GLPA Business Meeting in Youngstown on Saturday, October 19th.

A number of cosmetic changes were also incorporated into the Bylaws to make the language more consistent and easily understood. Since these numerous syntax revisions do not alter the meaning or content of the Bylaws, they are not printed here. If you would like a copy of the newly revised Bylaws, please contact GLPA President Dale Smith.

ARTICLE VII ----- COMMITTEES

OLD VERSION

Section 4. The duties of each Standing Committee shall be defined by the President.

PROPOSED VERSION

Section 4. The President shall have the authority to appoint or replace the Chairs for all Committees except for the Nominations Committee with the approval of the Executive Committee. Committee Chairs shall serve until replaced or until a new President assumes Office.

ARTICLE XIV ----- ORDER OF PRECEDENCE

PROPOSED VERSION

Section 1. The order of precedence of authority in the Association shall be as follows:

A. The Bylaws of the Association
B. Votes of the Members of the Association
C. Acts of the Executive Committee
D. Acts of the President

Section 2. The President shall have the authority to decide any issue of interpretation. Any such decision may be appealed to the Executive Committee, the decision of which may be appealed to the Members of the Association.
GLPA ELECTIONS

The Nominating Committee (Steve Bishop, Chairman) respectfully submits to the membership the following candidates for office:

President-Elect: Dave Batch
Secretary/Treasurer: David Parker
I.P.S. Representative: Dayle Brown
               Jerry Mansfield
               Sheldon Schafer

CANDIDATE INFORMATION:

David Batch; Abrams Planetarium; Michigan State University; East Lansing, MI

Dave received his B.S. in Physics from Adrian College, his M.S. in Astronomy from the University of Michigan, and his Ph.D. in Education from Michigan State University.

He has been a member of GLPA for 24 years. From 1971-78, Dave served as Secretary/Treasurer. He later served as Executive Secretary for the International Planetarium Society (I.P.S.) from 1979-83.

Dave is a member of I.P.S., the National Science Teachers Association (NSTA), and Phi Delta Kappa. He has also been awarded the Fellow Award from both GLPA and I.P.S.

David Parker; Tipton Planetarium; Tipton, IN

Dave received his B.S. and M.S. from Ball State University in earth science and has taken additional graduate courses at Purdue University.

He has been a member of GLPA for 19 years, and currently serves as Secretary/Treasurer, a post he has held since 1981. He has also served as Instructional Materials Committee Co-chair from 1979 to 1982, and co-editor of GLPA TIPS Booklets # 8, 9, and 10.

Dave is a member of I.P.S., The Planetary Society, and the National Education Association (NEA). He has been awarded the GLPA Fellow award.

Dayle Brown; Pegasus Productions; South Bend, IN

Dayle received her B.S. and M.S. from Ball State University in elementary education. She has also taken courses in astronomy at Indiana University and West Chester University; the professional planetarium production workshops in Bradenton, Florida and Strasenburgh Planetarium; and the POPS and SPICA workshops.

She has been a member of GLPA for 6 1/2 years and has attended nearly every GLPA and I.P.S. Conference since then. She presented a paper at the 1987 GLPA Conference in Merrillville. She established a local Young Astronauts Chapter and served as chapter leader. In 1990, she created Pegasus Productions, an astronomy education company that uses the Starlab portable planetarium.

Dayle is a member of I.P.S., the Planetary Society, NSTA, NEA, and MAPS.

Jerry Mansfield; Allen Memorial Planetarium; Vigo County School Corp.; Terre Haute, IN

Jerry received his B.S. and M.S. in Science Education and Geology from Indiana State University.

He has been a member of GLPA for 15 years. He served as Secretary/Treasurer from 1978-80 and as Instructional Materials Chair from 1982-90.

Jerry is a member of I.P.S., ASTC, ISTA, and NEA. He has been awarded Teacher of the Year, and is a member of the science fraternity Sigma Xi. Jerry also serves as part-time Director of the Children's Sci-Tech Museum of Terra Haute.

Sheldon Schafer; Lakeview Museum Planetarium; Peoria, IL

Sheldon has been a GLPA member for 15 years. He earned his B.S. in astronomy at Ohio State University and his M.S. in science/planetarium education at Wagner College.

He has served GLPA as president in 1984-85 and as I.P.S. Representative from 1986-90.

Sheldon is a member of I.P.S. Association of Astronomy Educators, Planetary Society, and National Teacher's Association, which awarded him their "Star" award in 1987. He has also been awarded the GLPA Fellow.
GLPA ELECTIONS (cont.)

VOTE!

Don't forfeit your right to vote in the GLPA elections just because you can't attend the conference in Youngstown. If you are a member in good standing, you may vote ahead of time by obtaining an absentee ballot.

To do so, please write Dave Parker, the GLPA Secretary/Treasurer at the Tipton Middle School Plm.; 817 S. Main Street; Tipton, IN 46072; or phone him at (317) 675-7521, ext. 222.

However, please do NOT send your completed ballot back to Dave Parker. Because GLPA Interim President-elect Steve Bishop will not be able to attend the upcoming conference, please return your completed ballot to GLPA President Dale Smith at the Physics and Astronomy Dept., Bowling Green State University, Bowling Green, OH 43403. Completed ballots must be received by October 9th!
The Ward Beecher Planetarium at Youngstown State University will host the 27th annual conference of the Great Lakes Planetarium Association on October 16-19, 1991. A variety of speakers, workshops, paper sessions, planetarium shows, technology demonstrations and special events are planned for our three-day conference.

LOCATION: The conference will be hosted by the Ward Beecher Planetarium, equipped with a Spitz A3PR star projector, video projectors, and panorama and auxiliary projectors. Its 147 seats are situated under a 40-foot dome, and its companion roof-top observatory contains 14- and 8-inch computer-controlled telescopes.

The Butler Museum of American Art, the Youngstown Historical Society's Arms Museum (local history) and the Youngstown Historical Center of Industry and Labor (the Steel Museum) are located within two blocks of the Planetarium and conference hotel. The Butler will be featuring an exhibit on holographic art during the run of the conference.

Mill Creek Park, one of the nation's leading urban parks, is a ten-minute drive away. The autumn colors will be performing at their peak splendor during the conference weekend.

REGISTRATION: Registration materials were mailed to all GLPA members in early August. If you did not receive registration materials, please contact Warren Young. The registration fee is $65.

LODGING: The historic Wick-Pollock Inn on the campus of Youngstown State University will be the conference hotel. Formerly a private mansion, the building has become the focal point of an inn that offers modern conveniences but retains its historical elegance and flavor. Rooms are available at a special conference rate of $54 per night/per room. Room rates and availability are guaranteed through September 25. Complimentary parking is available for hotel guests.

MEALS: A meal package for the duration of the conference will be available for $90. It will offer a variety of tempting foods, including an hors d'oeuvres buffet on Wednesday evening; continental breakfast breaks on Thursday, Friday and Saturday; lunches on Thursday, Friday and Saturday; and afternoon snack breaks. There will be banquets on Thursday and Friday nights. All meals will have vegetarian options available.

SPEAKERS: Speakers will include Dr. James Kaler from the University of Illinois, who will return to present our annual astronomy update; Dr. Ronald Parise, NASA payload specialist, who will discuss results from the ASTRO telescope mission; and Dr. John White, archaeologist, who will speak on the solstice alignments of Indian mounds in Southwestern Ohio. Dr. Lev Mukhin and Vladimir Yatsenko from the Soviet Space Research Institute will speak on the Soviet space program and the exploration of Mars, including "Mars '94," and Dr. Paul Knappenberger, president of The Adler Planetarium, will present the annual Spitz Lecture.

WORKSHOPS: Workshops planned include new technology for audio and music; art techniques and ideas; the portable planetarium in an educational setting; slide preparation for those on the beginning and the advanced levels; planetarium activities for school groups; and the inimitable Ken Perkins, who will give a live presentation to a school group.

GLPA SWAP MEET: By popular demand, the second annual GLPA swap meet will be held at the conference. Start now to save your used projectors, motors, lenses, computers, slide sets, telescope parts, books, etc., anything relevant to planetariums to buy, sell or trade. Individuals and institutions are equally welcome to participate.
MEMBERSHIP SURVEY

We want to know what you think. In order to provide the best possible leadership to GLPA, the Executive Committee is conducting a membership survey to characterize who we are, what our institutional situations are, and to solicit your opinions and ideas.

Please take a few minutes to answer these questions and return the form in the attached postpaid envelope by October 1 at the latest. For this survey to be useful, we need to hear from as many people as possible. Thanks in advance for your cooperation.

Level of support
1. With which type of institution is your planetarium associated?
   A) school    B) college/university    C) museum
   D) other ____________________________

2. What fraction of your time is allocated to the planetarium?
   A) full time
   B) more than half but less than full
   C) less than half but more than an hour a day
   D) an hour/period a day
   E) less than an hour/period a day

3. What level of support staff do you have? (mark all that apply)
   A) full time of one or more persons
   B) part time of one or more persons
   C) student workers/volunteers
   D) outside volunteers
   E) none
   F) other ____________________________

4. In what range does your annual operating budget fall (exclusive of salaries and overhead costs such as custodial typically paid by the parent institution)?
   A) over $25,000
   B) $5,000 - 25,000
   C) $1,000 - 5,000
   D) $500 - 1,000
   E) $100 - 500
   F) under $100

Computers
5. What kind(s) of computers do you use?
   A) Apple II    B) Macintosh    C) IBM
   D) other ____________________________
   E) none

6. Which network(s) do you have access to?
   A) Internet    B) SPAN    C) BITNET    D) UUCP    E) Telenet
   F) Other ____________________________
   G) none

7. Would you be interested in using a GLPA bulletin board listing planetarium news/events in our area?
   A) yes    B) no

8. Would you use a GLPA bulletin board containing short lesson plans/teaching ideas?
   A) yes    B) no

Would you contribute to this bulletin board?
A) yes    B) no

13
Programming
9. How is your planetarium used? (mark all that apply)
   A) regular public shows
   B) occasional public shows
   C) school groups
   D) astronomy courses
   E) other ________________________

10. If you are in a school planetarium, are you currently working with a school-based
    astronomy/space science curriculum?
    A) yes
    B) no

    If so, would you be willing to share your curriculum with other GLPA members, as
    part of the development of a GLPA curriculum? If you are, please contact Dave
    DeRemer, GLPA Education Chair.

Conferences
11. How often do you attend the annual GLPA conference in October?
    A) regularly
    B) occasionally
    C) infrequently
    D) never

12. If you do not regularly attend the conferences, what factors influence your decision
    not to attend? (mark all that apply)
    A) distance
    B) can't get the time off
    C) can't get the money
    D) lack of interest
    E) not important enough since the planetarium is only a small part of my job
    F) other: ________________________

13. If you do not regularly attend the conferences, what can we do to make them more
    attractive/accessible to you? (Or if you do attend regularly, what suggestions can you
    make for improvements?)
**Member Services**

14. Yes    No    Should we continue the slide bank?
Yes    No    Should we actively expand our holdings in the slide bank?
Yes    No    Have you ever used the slide bank?
Yes    No    Should we continue the script bank?
Yes    No    Should we actively expand our holdings in the script bank?
Yes    No    Have you ever used the script bank?
Yes    No    Have you used any of the membership services provided by Support Services Alliance (SSA)? If you don't know what they are, you haven't used them.
Yes    No    Should we continue to pay for membership in SSA so our members can use SSA's services?
Yes    No    Should GLPA purchase (or otherwise legally secure) video tapes and laser disks that can be checked out to members for preview?
Yes    No    Since some institutions will pay for conventions but not for dues, should GLPA raise convention registration so that the dues can be kept low?
Yes    No    Is the GLPA Sourcebook of benefit to you?
Yes    No    Should we produce an updated copy of the Sourcebook?
Yes    No    If yes, would you support a dues increase to pay for it?
Yes    No    Would you consider leaving GLPA something in your will?
Yes    No    Would you like to see GLPA provide an option to purchase Personal Liability Insurance (in case your employer doesn't carry any on its employees).

15. For many members, the Newsletter (along with other printed materials) is the primary contact with GLPA. Are there additional types of features you would like to see included in the Newsletter?
New Ideas

16. GLPA is trying to provide many services to its members, including the annual October conference, spring state meetings, printed materials such as the Newsletter, and resource libraries of instructional materials. PLEASE TELL US ANY IDEAS YOU HAVE FOR ADDITIONAL SERVICES WE MIGHT PROVIDE THAT WOULD HELP YOU. We are particularly interested in hearing from people in smaller facilities.
I.P.S. COUNCIL MEETING REPORT
June 15, 1991
Reported by David E. Parker

The 1991 IPS Council meeting was held at the conclusion of the SEPA conference in Atlanta, Georgia, June 15, 1991.

As a result of the recent election, the new President-Elect is Gerald Mallon from Methacton School District Planetarium, Norristown, PA. Secretary, Katherine Becker, Omaha, NE, and Treasurer, Keith Johnson, Reno, NV, ran unopposed.

Reports from the regional affiliations were printed and distributed prior to the meeting. An updated listing of the regional newsletter editors was requested and will be distributed to all of the regional editors to aid in dissemination of information between regions.

There are no IPS regional affiliations from Japan, Italy or Russia, but they will be asked if they would affiliate with IPS.

Von Del Chamberlain and Jeri Panek reported on plans for the 1992 conference to be held in Salt Lake City, June 23-28. They discussed the tentative agenda and solicited input from the council. The bulk of the conference will be held at the Snowbird ski resort with one day planned in Salt Lake City.

The 1994 conference will be held in Cocoa, Florida, Mike Hutton, host. He asked for a decision between July and October dates for the conference. After discussion, it was decided to hold the conference in July, coinciding with the 25th anniversary of Apollo 11.

Two letters of invitation to hold the 1996 conference in Japan were received, one from The Science Museum, Osaka, with a 26.5 meter dome, a Minolta Infinium projector and an Omnimax. The other letter was from The Science Education Center, Tokyo, with an 18.0 meter dome, a Goto projector and an Astovision 70 film projector.

The science center in Portland, Oregon, O.M.S.I., asked that the proposal they made to host the 1994 conference be applied to the 1996 conference. All proposals to hold the 1996 conference must be in by Dec. 31, 1991, and will be acted on at the 1992 meeting.

The 1993 council meeting site will be decided at the 1992 council meeting. Possible locations could be Japan or India.

Due to the copyright infringement gap in the GLPA insurance and the high cost of closing that gap, it was decided to drop the GLPA slide proposal and refer back to committee for further work.

Election committee procedures will be reviewed.

Wording was placed in the standing rules to encourage committees to include planetarians from various countries.

It was decided that all task forces will filter through committees and that the President and Secretary should receive copies of correspondence between committee chairs and task forces.
A bylaws review and revision committee will be formed and will report at the 1992 meeting.

The IPS Directory will be reprinted following the 1992 conference.

Two 1990 Script writing contest winners, Jim Manning and the Cumberland Science Center, were announced, and their scripts will be published in *The Planetarian*.

Negotiations are underway for IPS to produce a poster which will be published in National Science Teachers Association publications.

Some National Science Foundation representatives will be present at the 1992 conference to conduct workshops on writing proposals for NSF grants.

A change in IPS dues was instituted. One year, increased from $39 to $40; two years, increased from $67 to $70. Institutional first year, increased from $125 to $150; institutional thereafter, increased from $50 to $75.

The airmail supplement of $5 and $8 per year for foreign delivery of the *Planetarian* was removed.
We hope to see you at the GLPA Conference in Youngstown, but...

IF YOU CAN'T ATTEND THE CONFERENCE, 
DO THE NEXT BEST THING . . .

. . . BECOME A MEMBER OF GLPA AND RECEIVE THE 
PROCEEDINGS OF THE CONFERENCE

A Membership will also entitle you to the quarterly GLPA Newsletter and access to the GLPA Script Library, Slide Library, Software Library and much more.

DON'T LET THESE VALUABLE BENEFITS PASS YOU BY 
JOIN TODAY!

---

**MEMBERSHIP APPLICATION**

**CATEGORY:**
(check one)

___ Regular ($20) ____________________________

___ Student ($10) ____________________________

___ Sustaining ($50) __________________________

___ Patron ($200) ____________________________

Name ____________________________
Institution ____________________________
Address ____________________________
City ________ State ________ Zip ________

Return to: David E. Parker
GLPA Secretary/Treasurer
Tipton Planetarium
817 South Main Street
Tipton, IN 46072
(317) 675-7521
THE GREAT LAKES PLANETARIUM ASSOCIATION offers membership opportunities to all individuals in any way connected with the operation of planetariums regardless of geographic location. G.L.P.A. is an affiliate of the International Planetarium Society and the National Science Teachers Association. Membership dues are $20 annually, payable at the time of the Autumnal Equinox. General correspondence and requests for membership should be addressed to: Mr. David E. Parker, Secretary/Treasurer (address below). This quarterly GLPA Newsletter is received by all members in good standing. Ideas and opinions expressed in the GLPA Newsletter are not necessarily those of G.L.P.A., its membership, or the editor. Deadlines for contributions fall on the 1st of February, May, August, and November. Send information to: Bart Benjamin, Editor (address below). Copyright 1991.

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PRESIDENT'S MESSAGE
Dale Smith

Thanks to everyone who responded to the membership survey in the last GLPA Newsletter. The 47 replies contained many thoughtful suggestions. I will highlight some responses here and report in more detail with an article in the spring newsletter.

1) Strong interest was expressed in a GLPA computer bulletin board listing planetarium news, lesson plans and teaching ideas, so one is being set up on a trial basis. See the notice on page 6 for more information.

2) Strong interest was also expressed in an updated edition of the GLPA Sourcebook. Though it is not on this year's agenda, we will consider it in a future year.

3) Several of the essay responses suggested services that we already provide but evidently haven't publicized enough. See pages 8 and 9 for a summary of GLPA Membership Benefits.

4) Several people suggested changing the annual conference away from October to make it easier to attend. We did a straw poll at the conference to test the idea and found that such a move would tend to decrease attendance, though we realize that no date is ideal for everyone.

5) Everyone on the Executive Committee has read all the responses. More survey results will appear in the spring newsletter.

Writing the Ohio news for this issue brought my attention to how vulnerable some planetariums are to closure. If your facility or another one you know of is in danger, please contact your state chair and me. We and your fellow planetarians may be able to help. Even if letters of support are effective only one time in many, it's well worth the effort.

A note to Warren Young: Thanks for all you did to help make another excellent GLPA Conference. Thanks too for not telling everyone the story of how my car was towed in Youngstown a few years ago while parked within 100 yards of your planetarium!

Seasons Greetings!

I would also like to commend Warren Young and his staff for hosting a very memorable GLPA conference. Each year at our annual conference, I'm reminded of how capable and creative the members of GLPA are, and that the success of GLPA is a direct reflection of this fact. Some of the highlights of the conference are presented in photographs on pages 17, 18 and 19.

At the conference's business meeting, the Executive Committee distributed a "Membership Benefits" booklet to all who wanted one. On pages 8 and 9, I've summarized the services that GLPA offers to its members for the benefit of those who were either unable to attend the conference or didn't pick up a booklet. The more familiar you are with these services, the better a resource GLPA can be for you.

On pages 10 through 14, you will find the minutes of the GLPA Executive Committee Meeting and Annual Business Meeting. Please take a minute to read the business of your Association. Also, please read the GLPA Bylaws on pages 15 and 16 and return your ballot to either approve or disapprove the changes.

Keep those reports and articles coming to the GLPA Newsletter! Please note that the deadline for the spring issue is February 1, 1992. Have a very Merry Christmas and a Happy New Year!
**STATE NEWS**

### ILLINOIS

**Chairman:** Bart Benjamin  
Cernan Earth and Space Center  
Triton College  
2000 Fifth Avenue  
River Grove, IL 60171  
(708) 456-0300, ext. 408

The Illinois state meeting will be conducted at the Adler Planetarium in Chicago on Saturday, May 2, 1992.

Chicago's Adler Planetarium will present its holiday show *Star of Wonder* and its children's holiday show *Winter Star* through the year. Beginning January 2nd, Adler premieres a new program *Exploring New Worlds*, which examines New World astronomy at the time of Columbus' arrival, and brings back a popular children's show *Wonderful Rocket*. Adler has received on loan an astronomy exhibit called "You are Here," which will be on display through March.

Triton College's Cernan Earth and Space Center presents its annual holiday program, *Celebrations of Winter* through the month of December. In January, the Cernan Center will premiere the C-360 film *Seasons* which was produced by the Science Museum of Minnesota, and an all-new children's show, entitled *Zip, Zoom, Whiz!* Continuing is the Cernan Center's very popular laser light show *On the Wings of the Night*, featuring the music of Pink Floyd.

The Henry Crown Space Center's Omnimax Theater in Chicago will continue running its production of *Antarctica* through May of 1992. Omnimax theaters in Norwalk (CT), Vancouver, San Diego, Denver and Australia will soon be showing their production of *Antarctica* as well.

### INDIANA

**Chairperson:** Alan Pareis  
904 Warren Street  
Huntington, IN 46750  
(219) 356-8680

The Indiana state meeting will be conducted at the Marion High School Planetarium on Saturday, April 25, 1992. The host will be director Bruce Brandle.

Dayle Brown has completed her sabbatical year and has returned to a self-contained 3rd grade classroom at Olive Township Elementary in the New Prairie United School Corporation. She is also busy with her company Pegasus Productions, which presents travelling Starlab shows to students. Having attended SPICA this past summer, she is now is qualified to conduct teacher training workshops and serve as a resource for local teachers.

The P-H-M Planetarium in Mishawaka is running *The Case of the Missing Dinosaurs*, a Strasenburgh show. In recent years, director Art Klinger has written and published several astronomy units for school use, including a terrific unit on astrology and its fallacies. Please call Art if you are interested in developing a similar unit.

In July, Alan Pareis taught astronomy to 4th-6th graders at the Geneva Center, a camp and conference center in Rochester, Indiana. The classes consisted of nighttime telescope viewing, daytime solar viewing and views of the partial solar eclipse.

The Merrillville Community Planetarium is presenting *Larry, Cat in Space* in December.

Welcome to Amera Platt, new GLPA member and director of the Wayne High School Planetarium in Fort Wayne.

The Chaffee Planetarium in Grand Rapids is developing a new family show for the winter. Groundbreaking for the new Grand Rapids Public Museum has already begun and planning for the new 50-foot Digistar planetarium has moved into high gear. During the winter, they expect their millionth visitor since their opening in 1961.

The Longway Planetarium in Flint is breaking in their new Laser Fantasy based laser show system, which opened in November.

The McMath Planetarium in Bloomfield Hills is producing a program called *The Greatest Cosmic Space Stunts*, which illustrates some of the more intriguing aspects of space physics by putting an indomitable daredevil through her paces, such as walking on the sun and skydiving from 300 miles up.

The Shiras Planetarium in Marquette has put together the funding for the purchase and installation of a new Minolta MS-8 star projector to replace their aging Spitz A3-P.

**OHIO**

Chairman: Dale Smith  
Physics and Astronomy Dept.  
Bowling Green State Univ.  
Bowling Green, OH 43403  
(419) 372-8666

The Ohio state meeting will be conducted at the Dayton Planetarium on Saturday, March 28.

Good news! The planetarium at Fostoria High School has reopened after being closed for several years. Tony Michele is the new director. He will be doing programs for elementary classes in the Fostoria schools and also plans to develop public programs in the future.

The Dayton Planetarium has opened its new 50-foot dome (Ohio's largest) which features a Digistar projector (Ohio's first).

Bad news. Two Ohio school planetariums have been dismantled after being closed for some time. The administrators in both Middletown and St. Clairsville decided to sell their star projectors to other school systems out of state.

The Newhard Planetarium in Findlay has been running *Larry, Cat in Space*.

Toledo's Ritter Planetarium ran their version of *More Than Meets the Eye*, a program about the way that astronomers use light to decode the universe.

The Bowling Green Planetarium is running *Secret of the Star* as its Christmas show.

**WISCONSIN**

Chairman: Bob Allen  
Univ. of Wisconsin Plm.  
Dept. of Physics; Cowley Hall  
La Crosse, WI 54601  
(608) 785-8669

The Wisconsin state meeting will be conducted at the University of Wisconsin in La Crosse Planetarium on Friday and Saturday, April 24-25, 1992. Bob Allen will serve as host.

The Horwitz Planetarium in Waukesha recently installed a Sharp LCD video projector and VCR. Anyone interested in information about the equipment should call or write director Dave DeRemer. *The Christmas Star* is their offering in December.

The Wauwatosa West High School Planetarium has just completed a remodelling project in which new shelving and sound system cabinets were installed.

The UW-Stevens Point Planetarium is presenting *Season of Light* and *A Christmas Present* in December. *Of Stars and Mankind* will be presented in February and March.
ELECTION RESULTS
The results of the GLPA elections are as follows:

President-Elect: David Batch
Secretary/Treasurer: David E. Parker
I.P.S. Representative: Dayle Brown

NEW GLPA FELLOWS
Four new "Fellows of GLPA" were awarded at the conference in Youngstown. They are Dayle Brown from South Bend, Indiana; David Linton from Champaign, Illinois; Georgia Neff from Peoria, Illinois; and Barbara Williams from Merrillville, Indiana.

Each new "fellow" has been an active member of GLPA for years and has made significant contributions to GLPA and/or their own state planetarium organizations.
Congratulations, Dayle, Dave, Georgia and Barb!

SPRING EXECUTIVE COMMITTEE MEETING
The spring GLPA Executive Committee Meeting will begin at 10 a.m. on Saturday, April 11, 1992 at the Kalamazoo Public Museum Planetarium in Kalamazoo, Michigan. Executive Committee members will be receiving more information by mail. Others interested in attending this meeting should contact Eric Schreur at (616) 345-7092.

1992 CONFERENCE DATE SET
The 1992 GLPA Conference will be held at the St. Louis Science Center from October 21-24, 1992.

The all-new $34 million facility, which has just opened, boasts a 228-seat planetarium with Digistar projector, 60,000 square feet of exhibit and programming space, a separate Omnimax Theater and Einstein's restaurant. Director John Wharton will serve as conference host.

NEW MICHIGAN STATE CHAIR
Jeff Bass, from the Cranbrook Institute of Science's Planetarium in Bloomfield Hills, has replaced Garry Beckstrom as Michigan's state chair. Please direct all Michigan planetarium news to him from now on.
Thank you, Jeff, and welcome aboard.
( Editor: Since I joined GLPA in 1984 (and probably well before that), Michigan has only known one state chair. Extra special thanks to Garry Beckstrom for his hard work as Michigan state chair all these years.)

BE A GLPA REPRESENTATIVE
GLPA encourages any member attending a national, regional or local National Science Teachers Association (NSTA) meeting to consider giving a talk on GLPA, especially concerning the educational value of all the astronomy education material we cover -- both in publications and at our conferences.

We are one of the most active astronomy education organizations in the country. If you plan to attend such a meeting, please contact GLPA's membership chair, Eric Schreur, to obtain membership brochures.

GLPA COMPUTER BULLETIN BOARD
GLPA now has a computer bulletin board, courtesy of Eric Schreur and Carl Wenning. The phone number to log on is (616) 342-4062. Information can be accessed at either 300 or 1200 baud, 8-bit, one stop, no parity.

FUTURE HOSTS FOR GLPA CONFERENCES?
If your planetarium might consider hosting a GLPA conference in the future, please contact the Acting Conference
BULLETIN BOARD (cont.)

Planning Chair Gary Tomlinson at (616) 456-3987.

SUPPORT SERVICES ALLIANCE FOR
GLPA MEMBERS

As a member of GLPA, you are eligible for benefits provided by the Support Services Alliance, Inc. of Schodarie, New York.

These benefits include a comprehensive medical insurance plan with deductible and co-insurance options, group life insurance, a dental insurance plan, credit information service, a vehicle leasing program, a home mortgage service, car rental discounts, and more.

For more information, please contact SSA's midwestern office in East Peoria, Illinois at (309) 699-2453. You may also contact Sheldon Schafer at Lakeview Planetarium, (309) 686-7000, for information.

H. DUDLEY WRIGHT FELLOWSHIPS

Tufts University in Medford, Massachusetts has announced fellowships to be awarded to two teachers of science in grades 8 through 12 who have significantly contributed to innovations in their school's science curricula leading to an improved understanding of science by students.

Winners receive a stipend of $35,000; a contribution of $2,000 towards transportation and relocation costs and $500 towards the purchase of books and equipment. During the year in residence, the fellow will be asked to continue developing the curricula concepts that won them their award.

For more information, please write: Fellowships; H. Dudley Wright Center; 72 Professors Row; Tufts University; Medford, MA 02155. Applications must be post-marked by March 15, 1992.

ASSOCIATION OF ASTRONOMY EDUCATORS

The Association of Astronomy Educators is the only U.S. group exclusively dedicated to improving astronomy education at all levels, from kindergarten through college.

Founded in 1977 as an outgrowth of a National Science Teachers Association task force, the Association's goal is to help its members by disseminating activities in order to promote a quality of astronomy education which will enhance the scientific literacy of students. Yearly dues are $12.00.

For more information about AAE, please write Chaz Hafey, AAE Membership, Science Museum of Virginia, 2500 W. Broad Street, Richmond, VA 23220.

PEACE CORPS SEARCHING FOR
SCIENCE TEACHERS

The Peace Corps is currently searching for math and science teachers for departures in 1992 into overseas assignments. Programs are for two years teaching in secondary schools in Africa, or for other possible assignments in countries throughout the world.

Volunteers receive a range of benefits, including all expenses paid, complete medical and dental care, possible student loan deferment or cancellation, $5,400 readjustment allowance at the end of training and service and more.

For more information or an application, please call (202) 606-3000, ext. 882 or write Peace Corps, Box 882, Washington, D.C. 20526.

Under Roof, Dome & Sky

MAPS Education Committee is considering reprinting Under Roof, Dome & Sky, a highly successful collection of astronomy projects and programs for both the planetarium and the classroom. This book has been in constant demand since its 1973 printing.

In order to determine whether a new printing is viable, the Committee would like your feedback. Please fill in and return the coupon below ASAP.

Yes No

1. Have you ever seen/read Under Roof, Dome & Sky?
   2. Do you own a copy?
   3. Will you buy a copy for a nominal charge?

Name: __________________________
Address: _________________________

Send to:
Frances Jackson
MAPS Education Committee Chair
P. O. Box 353
Providence, RI 02901
Phone: 401-722-5293
| HUBBLE UPDATE |
| Dr. Randy W. Olson  
University of Wisconsin at Stevens Point |

In response to a few requests at the GLPA conference, this is the first of a continuing series of news notes about the Hubble Space Telescope.

As of October 31st, two of the six gyroscopes are not operating. One major concern is the solar panel oscillations. When the telescope crosses the terminator (twice about every 90 minutes) the panels oscillate by as much as two meters at the ends. This places a great physical stress on the panels. Replacement panels are currently being built by the European Space Agency (ESA).

One side of the power supply in the High Resolution Spectrograph (HRS) has failed and this side is needed to transmit data from the HRS to the ground. The HRS is currently not operational, but a future repair has been scheduled for the shuttle.

The Faint Object Spectrograph (FOS) has lost some of its diode detectors but this was not unexpected and there will probably be no more diode loss. The FOS is working well on objects that are not too faint.

The Wide Field/Planetary Camera (WF/PC) suffers from the telescope's spherical aberration as do all other instruments. By using image deconvolution computer programs, these cameras are very operational.

Now that the telescope has increased its pointing accuracy, the High Speed Photometer (HSP) is working. Images can be kept centered to within a few hundredths of an arc second. Brightness variations of 1.8 milli-magnitudes have been measured.

Current plans are for the shuttle repair and refurbishment mission to take place in November of 1993. There will be four EVA's to replace gyros and solar panels, repair the HRS, replace the WF/PC with a camera that removes the spherical aberration and replace the HSP with the Corrective Optics Space Telescope Axial Replacement (COSTAR). This unit will correct the spherical aberration for the other instruments.

| GLPA MEMBERSHIP BENEFITS |

The following is excerpted from the GLPA "Membership Benefits" booklet. Please see the masthead of the GLPA Newsletter for the addresses and phone numbers of the contact persons named below:

**Annual Conference**

The annual GLPA Conference is held in the month of October. Formal paper sessions, invited speakers, workshops, commercial displays, planetarium shows and demonstrations are just a few of the events held at each conference. The highlight of the conference is the Armand Spitz Lecture presented at the banquet. Preview information about the conference appears in the summer and autumn issues of the *GLPA Newsletter*.

**State Meetings**

Usually held on a Saturday in the spring of the year, each state meeting highlights local planetariums and provides an excellent opportunity for planetarians to become better acquainted with others in the area who can provide assistance about planetarium techniques, program development and problem solving.

The date for each state meeting is announced in the spring *GLPA Newsletter*.

(continued on next page)
GLPA ARTICLES (cont.)

GLPA Newsletter
The quarterly GLPA Newsletter is 12-25 pages of news items, announcements, meeting and conference highlights, state news and articles. It is mailed on the equinoxes and solstices to every member in good standing.

GLPA Proceedings
This annual publication provides a detailed summary of the talks, papers and other presentations at the annual fall conference. It is mailed 3-4 months after the annual conference to every member in good standing.

Planetarium Sourcebook
This publication lists hundreds of companies, dealers, manufacturers and businesses that are sources for equipment, products, materials and supplies used in the planetarium. The 1990 issue is available for $8 from the Printed Materials Chair, Gary Sampson.

TIPS Booklets
Approximately 14 TIPS booklets have been published by the Education Committee of GLPA. Collectively, these booklets cover a wide variety of subjects while listing ideas, suggestions and resources for all facets of the planetarium field. The prices of TIPS booklets range from $1 to $15 and are available from the Printed Materials Chair, Gary Sampson.

GLPA Gift Shop
The GLPA Gift Shop has been established to handle items which may be purchased as gifts or for individual use. Most items handled by the gift shop bear the familiar GLPA logo. For more information about available items and prices, contact the Gift Shop Manager, Dan Goins.

Script Bank
The script bank contains over 300 planetarium scripts from across the United States and abroad, covering a multitude of topics and spanning age levels from kindergarten to adults. An annotated script file index is available for $2, and is also available on Hypercard for Macintosh computers. For more information about available scripts, contact the Printed Materials Chair, Gary Sampson.

Slide Bank
A current selection of over 2,000 slides exist in the GLPA Slide Bank and are available for duplication, at a charge of 50 cents per slide. The slides you select are copied and the unprocessed film is sent to you. It is your responsibility to process the film. The slides in the bank are available for viewing and selection at the annual fall conference. For more information, please contact the Audio-Visual File Chair, Mitch Luman.

Audio/Video Tape Bank
A current selection of audio tapes and video tapes are available. To order, you must first send a blank reel-to-reel tape, cassette tape, or VHS video tape to be copied onto. For video tapes, you must also send a self-addressed, return mailer when ordering. For more information about available titles, contact the Audio-Visual File Chair, Mitch Luman.

Software Bank
A current selection of public domain computer programs that are compatible with Apple II, TRS-80 and IBM computers are available.
To order, you must first send a blank computer disk to be copied onto. For more information about available programs, contact the Audio-Visual File Chair, Mitch Luman.
MEETING MINUTES


CALL TO ORDER: The meeting was called to order at 9:04 A.M. by President Dale Smith.

CONFERENCE UPDATE: Ted Pedes reported on some of the events scheduled for the conference.

MINUTES: Bart moved that the minutes of the last Executive Committee meeting, which were printed in the Newsletter and mailed to all of the members of the committee, be approved. Motion was seconded and carried.

TREASURER'S REPORT: Copies of the GLPA financial report were reviewed. (See the minutes of the Annual Business Meeting for the financial report.)

Discussion and questions regarding the report were addressed. Financial reports from the gift shop, printed materials, slide, tape and software were reviewed.

Dan moved that the financial report be accepted. The motion was seconded and carried.

PRESIDENT'S REPORT: The United Nations report Dale reported that since spring he has been in correspondence with Dr. Hans Joachim Haubold at the U.N. who is working on a planetarium promotion booklet. The project is intended to foster development of planetariums in third-world and developing countries.

American Astronomical Society - Dale has talked to the AAS education officer. He suggested a variety of undertakings with AAS that may be beneficial to GLPA members, including press releases, videotaped talks, Shapley lectures which can only be done through the sponsorship of a college or university, astronomers to review planetarium scripts, astronomers to talk at conferences, reduced rate to AAS for planetarians, and astronomy workshops for teachers. He will be working with AAS on these topics, several of which look promising.

Membership Survey - There were 42 replies to the membership survey which was distributed to all members fall Newsletter. Some of the results: Most planetarium people are part-time. Most school planetarians have no helpers and very little money. There was a lot of computer usage but not much access to computer networks.

Eric offered a computer to run a bulletin board service. He said that contributions of information, data, and news is very important. Dan suggested that a $2-$3 fee be added to the dues of those that want to use the BBS. Eric will work with Carl Wenning, who also offered a computer to use with a BBS. At the spring meeting, we will reevaluate. Eric's BBS phone is 616-342-4062.

Other results from the survey show that almost everyone does public shows, all do school groups, and many teach astronomy courses. Not very many people know about Support Services Alliance. Evidently, some publicity concerning GLPA services is needed.

There was a discussion regarding the possibility of obtaining video tapes and laser disks to loan out for preview. It was agreed that it would be very difficult to administer. NASA provides video and slides. JPL will copy tapes that they have. Sampson said that there are now so many sources of video, that it would not be very helpful for us to try to provide that service. A list of the videos we use may be helpful to others if printed in the Newsletter. Some are listed in the Sourcebook, but not in detail.

Some people said they would consider leaving GLPA something in their will.

There was support for redoing the Sourcebook. Updates could be done every two year or so, then the complete Sourcebook would not have to be done as often.

There were several new ideas expressed in the survey. Papers at the conference should reflect a wide range of interests and budgets. Portable planetariums often need different resources than fixed facilities.

Someone suggested writing support letters to school boards asking that the planetarium director be allowed and encouraged to attend conferences and visit colleagues. Dale said he would be willing to send letters of support to those who ask. DeRemer will help write it up.

Dale said that he would like to contact planetarians in universities to access their review boards experiences, and, if necessary, develop a letter of support for them saying that producing planetarium shows, not just writing refereed publications, are creative activities.

Another letter which the president may write would be directed to institutions considering closure.

PAST PRESIDENT'S REPORT: Goin reported that he will be conducting the election at the business meeting.

EDUCATION COMMITTEE: DeRemer discussed the project of developing three planetarium programs. These basic programs for the low budget operation would include a script, tape, list of hands-on activities, and a slide set. DeRemer wrote to Mark Petersen about the possibility of making an arrangement to include Loth Ness music, but has not heard from him yet.

Packages distribution would be handled easier Mitch Luman, slide bank curator. There would be a single package price and a single person handling the orders.

INSTRUCTIONAL MATERIALS: Sampson reported that TIPS Booklet #1, "TIPS for the New Planetarian," has been updated and is available for duplication in resources. Gary has responded to many requests for scripts from new planetarians and small planetarium operations who have expressed the need for new materials; therefore Sampson will be helping DeRemer develop the three programs he mentioned.

The script index, on Hypercard, will be available at the conference.

10
He will prioritize the list of current TIPS booklets in case we are able to start revising and updating them.

- Waivers are signed for all slides, scripts and other materials that have been received in recent years.

- Following a discussion with Gloria Ball, Dale asked Tomlinson to formulate a statement reflecting our views on academic freedom and have it ready for the spring meeting.

- Sharron materials that have been received in recent years.

- October academic

- Following a discussion with Gloria Ball, Dale asked Tomlinson to formulate a statement reflecting our views on academic freedom and have it ready for the spring meeting.

- CONFERENCE: Dr. Warren Young said there are between 35 and 40 papers scheduled for the conference.

- Warren said he spent a lot of time talking to Dale and Sharon Parker this last year, and they were very helpful.

- PUBLICATIONS: Bart distributed a revised version of the ad layouts for the Newsletter. Contracts will be made with Bill Buckingham. Dale said that if ads are printed, the Newsletter must go first class postage. At the present time, all issues of the Newsletter, except Fall, are sent bulk rate, which causes a delay of about a week, but saves several hundred dollars a year in postage.

- Bart asked for clarification regarding advertising in the Proceedings. A motion made by Tomlinson that ads not be placed in the Proceedings was seconded and carried.

- DEVELOPMENT: Dale has asked Bill to come up with a conference exhibit policy for the spring meeting.

- Tomlinson said he viewed patron and sustaining memberships not necessarily to solicit advertising from the well know companies, but to involve companies whose products we use, but who have been largely untapped.

- INTERNATIONAL PLANETARIUM SOCIETY: GLPA submitted a proposal to IPS to assist with their slide bank, but, the copyright infringement coverage premium of $2500 was excessive. IPS sent the development of a slide bank back to their committee. Tomlinson would like to come up with an alternate proposal for the IPS slide bank.

- Dan moved that we drop the proposal to help IPS with their slide bank. Seconded. Parker said we should keep the door open to help if we could. The motion was defeated.

- Dan moved that Tomlinson approach IPS and see if there is some way to get around the copyright infringement insurance problem. Seconded by Bart. Motion carried.

- Parker reported on other aspects of the IPS Council meeting held in Atlanta last June.

- Tomlinson reported that IPS will not be publishing the bibliography. Katherine Becker & Gary have compiled a listing of 914 articles written about planetariums and planetarium education from 1923 to 1990. Sampson suggested printing a master copy and putting it in the resource file for those who would like to get a copy.

- MEMBERSHIP: Eric Schreuer reported that he now has the GLPA database on computer. He has redone the Membership Benefits and the Directory from the previous document which was done by Parker. All new members will receive the entire Membership Benefits, which includes the Directory; the previous GLPA members will need only the Directory.

- Four nominees for FELLOW of GLPA were Georgia Neff of the Lakeview Museum, nominated by Sheldon Schafer.

- Dayle Brown of Pegasus Productions and David Linton of Parkland College, nominated by David Parker. Barbara Williams of Merrillville, nominated by Gary Tomlinson.

- After discussion, Bart moved that the nominees be accepted. The motion was seconded and carried.

- Eric has not only the membership database, but also the database of all planetarium facilities in the great lakes area. Any state workshop hosts desiring labels for their spring meetings should contact Eric.

- Parker announced the year ended with 260 members.

- NOMINATIONS: Dale noted that nine people were nominated for President of GLPA, and only David Batch accepted. Dale suspected two or three institutional reasons; the rest were probably just personal reasons.

- There was some discussion regarding problems which may arise because the position of president is consistently being filled with a museum or university person. Sampson said that as long as the president takes effort to stay in touch with the membership, such as with the recent survey, it doesn't matter what institution he is from.

- CONFERENCE PLANNING: Tomlinson distributed copies of a letter of invitation from John Wharton to host the 1992 GLPA conference in St. Louis, which may be held jointly with GPPA. There are several possible invitations for later in 1990's, but no firm invitations.

- If the conference is held jointly with GPPA, we will need to be sensitive to their meeting requirements.

- Dan moved that we accept the invitation from the St. Louis Science Center. Seconded by Bart. Motion passed.

- Parker noted that certain aspects of the 1991 SEPA conference, which he attended, may be of interest to conference planning. A report was distributed to all.

- There was a review of events scheduled during the conference. Dale said that they should all be included, but the host must have some flexibility.

- Tomlinson said he will be working on refining some of the conference guidelines and formats.

- OFFICERS' HANDBOOK: Tomlinson distributed some revisions for the handbook, done by Gregg Williams. He expressed appreciation for all the work that Greg and Barb had done on conference planning.

- Tomlinson announced the appointment of Dave Batch to work with him on revisions of the Officers' Handbook.

- Membership and Sec/Trea. duties have been redefined. Development Committee duties are defined in the corporate membership portion of the handbook. Membership works with individual memberships, development works with companies and corporations.

- The Publications Committee is responsible for the printing of all publications, including TIPS Booklets, in order to provide a uniform appearance, regardless of who prepares the information.

- continued on page 14, col. 1.
MEETING MINUTES

The annual business meeting of the GLPA was called to order at 1:15 P.M. by President Dale W. Smith.

ELECTION OF OFFICERS: Dr. Smith noted that nine people were nominated for the office of president, but only one had accepted the nomination. Dale introduced Past President Dan Goins, who chaired the election. Dan asked for nominations from the floor for each office, president-elect, secretary/treasurer, and IPS representative. There being none, the nominations were closed. Dan invited each of the nominees to make a statement to those assembled. Printed ballots were distributed, voting was completed, and the ballots were collected.

PRESIDENT'S REPORTS: United Nations - Dale Smith reported that next year is International Space Year and the United Nations will create a booklet to promote development of planetariums in third world countries, compiled by Austrian astrophysicist, Hans Joachim Haubold, who is with the Outer Space Division at the U.N. American Astronomical Society - Dale has been working toward more cooperation between AAS and GLPA in areas such as astronomers to review planetarium show scripts, scheduling Shapley lectures through a college or university, and workshops for high school teachers.

Membership Survey - The recent survey, sent to all GLPA members in the autumn Newsletter was discussed. Dale noted that many people would be interested in a bulletin board service, listing events, news, teaching ideas, etc. Eric Schreur of Kalamazoo will be operating the BBS. Eric said all you need is a computer, a modem, and software to send and receive ASCII code. The phone number is (616) 342-4062. He is looking for contributions of information to be put on the BBS. There is no cost to GLPA.

There was strong support in the survey for continuing the slide bank and the script bank. Almost no one knew about the Support Services Alliance; it is offered at no cost to GLPA. There was good support of the GLPA Sourcebook. Updating or redoing that publication will be considered for some future date. Several people wrote helpful comments and suggestions. One suggestions was to move the date of the conference to a different time during the year. The large majority of those present preferred to keep the conference in October. More details of the survey will be appearing in the Newsletter.

SECRETARY'S REPORT: David Parker reported that the minutes of the last meeting, held at the Children's Museum in Indianapolis, October 13, 1990, were printed in the winter Newsletter. Rod Thompson moved that the minutes be approved. Seconded by Gregg Williams. The motion carried.

FINANCIAL REPORT: Parker read the financial report for the fiscal year as follows:
INTERNATIONAL PLANETARIUM SOCIETY: IPS

Rep. Gary Tomlinson offered IPS conference informational brochures to anyone who is considering going to the conference next July. Gary introduced David Parker, who went to the IPS Council meeting in Atlanta, last June.

Parker reported that the officers elected at the last election are: Pres.-elect, Gerald Mallon; Sec., Katherine Becker; Treas., Keith Johnson. The 1994 IPS conference will be held in conjunction with the 25th anniversary of Apollo 11 in Cocoa, Florida, Mike Hutton, hosting. Two letters of invitation to host the 1996 conference were received: Osaka, Japan, and Toyko, Japan. The Portland, Oregon, Science Center has also submitted a proposal to host the 1996 conference. A decision on the location will be reached at the next council meeting, July, 1992.

GLPA made a proposal to IPS to assist with the their slide bank, but the copyright infringement was too high and IPS will study other avenues.

The Directory will be printed after the 1992 conf.

Winners of the 1990 IPS script writing contest were Jim Manning and the Cumberland Science Center.

IPS dues will increase: one yr., $40; two years, $70. Institutional dues first year, $150; thereafter, $75.

The overseas mailing supplement was dropped.

PUBLICATIONS: Bart Benjamin reported according to a survey, our publications are the most important service to our members, and even to other planetarians that are not GLPA members. Bart thanked the following people: Dale Smith, for his participation in producing the Proceed-ings; 100% of the Youngstown paper presenters for sub-mitting printed or disk versions of their presentations; David DeRemer, Education Chair, for his work in reviewing TIPS Booklets and developing new educational materials; Gary Sampson for distribution of the current and past printed materials; and the state chairs who forward news of local interest to the Newsletter.

EDUCATION: David DeRemer reported that Gary Sampson, who has done a lot for astronomy education, is pictured in the September, 1991, issue of Physics Today.

DeRemer will be updating the curriculum bank. A few newly contributed curriculums are available. Anyone who has/uses a curriculum was urged to send a copy to David.

DeRemer will be working on producing three simple workhorse elementary planetarium programs which will include a script, slide set, recorded tape, and activities.

INSTRUCTIONAL MATERIALS: Gary Sampson made an appeal for scripts, curriculum materials, etc. Several new scripts have already been submitted. The collection of some 300 scripts is very unique - there is nothing else like it in the world. The script bank index is now on Hypercard for the Macintosh. Any member can get a copy.

Sampson said that one of the main functions GLPA performs is to help new planetarians get on their feet and get started with quality planetarium materials.

MEMBERSHIP: Eric Schreur asked to be notified of any changes in state chairs. He also asked anyone who knew of a planetarian who is not familiar with GLPA to take a brochure, make a friendly visit, and pass it along. David Parker said Eric will now be the person who will be processing dues and taking care of all other membership functions. If anyone has needs membership assistance of any kind, Eric is the one to contact. Dale expressed his appreciation to David for handling many of the membership duties for the last 10 years.

CONFERENCE PLANNING: Gary Tomlinson said he needs invitations for the 1993 & 1994 GLPA conferences. Gary thanked Gregg and Barb Williams for their many contributions as co-chairs of the conference planning committee the last several years.

Conference evaluations were collected.

John Warton was introduced. He said the 1992 GLPA conference would be held at the St. Louis Science Center, October 21-24. The new $34 million building will be opening in November, 1991. The 60,000 square feet of exhibit and programing space include many galleries. The Digistar planetarium with 228 seats is located in an entire building devoted to space sciences. They also have an Omnimax theater and Einstein's Restaurant.

John said they are looking at the possibility of a riverboat cruise, a tour of the Earth and Planetary Sciences Department at Washington University (a NASA imaging center), a visit to the Missouri Botanical Gardens and the St. Louis Zoo. They hosted the joint meeting of RMPA and GPPA in 1986 and are looking forward to the possiblity of GPPA joining GLPA at St. Louis in October, 1992.

BYLAWS REVISION: Dale reported that the executive Committee, especially the ad hoc comm. of Tomlinson and Gregg and Barb Williams, spent a lot of time in the last year looking at the foundations upon which GLPA is organized, namely the bylaws. The goals were to clear up some wording inconsistencies and introduce language that would allow GLPA to function more efficiently.

Dale spent quite a bit of time at the overhead projector explaining, article by article, the proposed changes in the bylaws and answering questions.

Jon Marshall moved that the proposed changes in the bylaws be adopted as presented. The motion was seconded.

Gregg Williams said that the bylaws require a notice in the Newsletter of any proposed bylaw changes at least 20 days before the business meeting. He said that some, but not all, of the proposed changes had been printed.

Dale responded by saying that the fall Newsletter must go out first class and it would have cost substantially more postage to print every proposed word change in that issue. He also said that it was accompanied by an announcement continued on page 14, col. 2
**G.L.P.A. EXECUTIVE COMMITTEE MEETING (cont)**

**BUDGET:** Dan moved that the budget listed below be adopted. Seconded by DeRemer. Motion carried.

**INCOME**

<table>
<thead>
<tr>
<th>Category</th>
<th>Projected 1991-92</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dues</td>
<td>4600</td>
</tr>
<tr>
<td>Conf. (liability insurance)</td>
<td>320</td>
</tr>
<tr>
<td>Instructional Mat. Comm.</td>
<td>415</td>
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<tr>
<td>Checking Interest</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td><strong>5535</strong></td>
</tr>
</tbody>
</table>

**Projected expenses - 1991-92**

**PUBLICATIONS**

- Newsletter printing: 1100
- Newsletter postage: 300
- Proceedings: 2400

**EDUCATION**

- Development of programs: 100

**INSTRUCTIONAL MATERIALS**

- Postage: 160
- Supplies: 105
- Printing: 150
- Shelving: 150

**CONFERENCE PLANNING**

- Conference planning: 75
- State meetings: 125
- Conference: 50

**MEMBERSHIP**

- Postage: 100

**DEVELOPMENT**

- Postage and supplies: 250

**OTHER EXPENSES**

- GLPA postage: 150
- Supplies: 75
- President's Expenses: 150
- Executive travel: 300
- Liability insurance: 310
- Membership Survey: 50
- Annual report: 20

**TOTAL EXPENSES** -> 6120

**NEW BUSINESS:** Sampson said that he has a new form for instructional materials, with a slight increase in postage. He tried to send everything 1st class, if possible. Dale asked everyone to read over the comments on the survey and we will discuss them at the spring meeting.

Tomlinson will send an article to the National Science Teachers Assoc., of which GLPA is an affiliate, for possible inclusion in their publication, NSTA Reports!

The Education chair, David DeRemer, was named as our NSTA liaison.

The spring Executive Committee meeting will be in Kalamazoo, April 11, 1992, at 10:00 A.M. EDT.

Dan moved that the meeting be adjourned. Seconded. Motion carried at 6:14 P.M.

Respectfully submitted, David Parker, Sec./Treas.

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**G.L.P.A. ANNUAL BUSINESS MEETING (cont)**

that there were a number of substantive changes, and he invited anyone wishing to see the proposed revisions to contact him. Again, no one did. He said that if there was sentiment to vote in a manner so that everyone could see copies, we could postpone the vote for one year.

Gregg suggested conducting a mail ballot. Dale stated that doing so would cost the association about $100.

Jon Marshall moved to amend his previous motion to say that we refer this matter to a written vote of the general membership by printing the bylaws in the Newsletter; additional, if the return on the written ballot is not a return from the majority of the membership, that this matter be postponed until the 1992 general meeting. This amendment was seconded.

During discussion, it was clarified that 50% of the ballots must be returned from the membership for the vote to be valid.

Jeanne Bishop asked if there would be any problems encountered by delaying the vote for one year.

Dale said that he did not think there would be any insurmountable problems.

There was discussion about holding the business meeting at a better time during the conference, about whether a quorum was present, and about whether a simple majority or a 2/3 majority is need to amend the bylaws.

There was a motion to call the question. It was seconded. The motion to call the question passed.

The secretary read Marshall's amended motion. A voice vote was conducted and the motion passed.

**NEW BUSINESS:** Jeanne Bishop moved that the Secretary/Treasurer send a letter to Sharon Parker thanking her for saving us so much money on the conference last year. Seconded. The motion carried.

Gregg Williams moved that Executive Committee send a letter to Steve Bishop thanking him for his many years of service to GLPA. Seconded. Dale noted that Steve presided over the organization in a very important transition period, and his business sense helped GLPA grow a great deal. The motion carried.

Rod Thompson moved that the meeting be adjourned. Seconded. Dale offered a friendly amendment to the motion, that in voting to adjourn, we also vote to send a letter of thanks to Gregg and Barbara Williams for their work on conference planning. Motion carried at 2:55 P.M.

Respectfully submitted, David Parker, Sec./Treas.
The Executive Committee is proposing several refinements to the By-Laws. These include creation of a standing Development Committee to seek corporate support, improved procedures for filling vacancies in elected officers or committee chairs, and definition of ranks of authority, as well as extensive cosmetic changes to create consistent language among all sections. The complete proposed version of the By-Laws including all these refinements is printed below. These changes were explained in detail at the annual business meeting in Youngstown.

The Executive Committee seeks your approval of these refinements in a ballot by mail. A vote at the business meeting was forestalled when Gregg Williams observed the lack of a quorum (4/5's of the conference registrants). According to the approved motion authorizing a mail ballot, the vote is valid only if a majority of GLPA members cast a vote otherwise, it will be necessary to raise the issue again at next fall's business meeting. Please vote now using the ballot below. Thank you.

BY-LAWS OF THE GREAT LAKES PLANETARIUM ASSOCIATION (proposed)

ARTICLE I

NAME
Section 1. The name of this organization shall be the Great Lakes Planetarium Association.

ARTICLE II

PURPOSES AND ACTIVITIES
Section 1. The Great Lakes Planetarium Association is incorporated under the laws of the State of Michigan as a non-profit organization, established and operated as a professional association within the meaning of Section 501(c)(3) of the Internal Revenue Code, for the following purposes:

A. To promote communication between members of the planetarium profession.
B. To improve the quality of planetarium programming by providing educational opportunities to the Members.
C. To promote a public awareness of the value of planetariums as educational institutions.
D. To provide publications, activities, and services of benefit to the Members.
E. To solicit and receive grants, contributions, and other property; to enter into contracts; to engage necessary personnel and services; and to transfer, hold, and invest such property as necessary for the furtherance of the purposes and activities of the Association.

Section 2. Activities shall be restricted as follows:

A. No part of the money or other property received by the Association from any source (including its operations) shall be used directly or indirectly for the benefit of or shall be distributed to the Officers, Members, Committee Members, or other private individuals except that the Association shall be authorized to pay reasonable compensation for the services rendered and to make payments necessary for the furtherance of the purposes and activities of the Association.
B. No substantial part of the activities of the Association shall be lobbying or otherwise attempting to influence legislation, and the Association shall not participate in any political campaign on behalf of or against any candidates for public office.

ARTICLE III

MEMBERSHIP
Section 1. Membership shall be open to all individuals and organizations interested in and supportive of the purposes and activities of the Organization upon recommendation of the Membership Committee and payment of dues. Membership shall not be denied because of race, color, creed, sex, or national origin.

Section 2. Annual Membership in the Association shall be for one (1) year from October 1st through September 30th of the following year.

Section 3. All Members in good standing shall have the right to vote. Organizations who are Members shall have one (1) vote and shall designate an individual as their voting representative upon application for membership.

Section 4. Membership shall be in the following categories:

A. Regular Members shall be those individuals or organizations supportive of the purposes and activities of the Association according to criteria established by the Executive Committee.
B. Student Members shall be those individuals currently enrolled full-time in a secondary school, college, or university.
C. Senior Members shall be those individuals currently 65 or more years old.
D. Honorary Life Members shall be those individuals who have this recognition conferred by the Executive Committee.
E. Sustaining Members shall be those individuals or organizations supportive of the purposes and activities of the Association according to criteria established by the Executive Committee.
F. Patron Members shall be those individuals or organizations highly supportive of the purposes and activities of the Association according to criteria established by the Executive Committee.

Section 3. Membership dues and benefits for each Membership category shall be established by the Executive Committee and approved by the Members of the Association. The dues for Student Members shall be one-half the dues for Regular Members rounded up to the nearest whole dollar.

Section 5. The Executive Committee may confer Honorary Life Membership upon individuals who fulfill the criteria established by the Executive Committee. Honorary Life Members shall have full Membership benefits for life and shall pay no dues.

MEETING OF MEMBERS
Section 1. At least once each calendar year, the Association shall hold a Conference of Members.

Section 2. The hosting of the Conference shall rotate among the planetariums of the Members.

A. The time and place of the Conference shall be determined by the Executive Committee on the basis of invitations received from potential host institutions.
B. Invitations from potential Conference hosts shall be made in writing to the President of the Association by the chief governing body or executive officer of the institution extending the invitation.

Section 3. The Association shall provide the Members with written notice of the Conference at least thirty (30) days before the Conference. All Members in good standing shall have the right to attend and to send representatives to attend the Conference and with the payment of registration and other fees and in accordance with Membership benefits and other such rules as may be established by the Executive Committee.

Section 4. During the Conference, the Association shall hold an Annual Meeting for the following purposes:

A. To hear the reports of the Officers and Committees.
B. To elect Officers.
C. To conduct other business as may properly come before it.

Section 5. A quorum at the Annual Meeting shall consist of one-half of the Members registered at the Conference less the number of Members voting by absentee ballot.

Section 6. There shall be no voting by proxy. Members not in attendance at the Annual Meeting may receive an absentee ballot for election of Officers and amendments to the By-Laws upon written request to the Secretary/Treasurer prior to the Annual Meeting.

Section 7. Whenever an issue shall arise requiring a vote of the Members at a time other than the Annual Meeting, the Executive Committee may direct the Secretary/Treasurer to conduct a vote by mail.

EXECUTIVE COMMITTEE
Section 1. Management of the Association shall be vested in the Executive Committee consisting of the five (5) Officers and the (6) Chairs of the Standing Committees. All members of the Executive Committee must be Members of the Association in good standing.

Section 2. There shall be a minimum of two (2) meetings of the Executive Committee per year. A meeting of the Executive Committee shall be called, at any time, upon the written request of any six (6) members of the Executive Committee.

Section 3. The President shall provide members of the Executive Committee with written notice of all meetings of the Executive Committee at least thirty (30) days before the meeting.

Section 4. A quorum shall consist of a majority of the members of the Executive Committee, three (3) of whom must be elected Officers.

Section 5. Whenever an issue shall arise requiring a vote of the Executive Committee at a time other than a meeting of the Executive Committee, the President may direct the Secretary/Treasurer to conduct a vote by mail.

Section 6. Vacancies on the Executive Committee shall be filled as provided for in Article VI, Sections 5 and 6, and Article VII, Section 4.

ARTICLE VI

OFFICERS
Section 1. The Officers of the Association shall be:
A. President
B. President-Elect
C. Past-President
D. Secretary/Treasurer
E. International Planetarium Society Representative

Section 2. All individual Members in good standing are eligible to hold Office.

Section 3. The Officers shall be elected at the Annual Meeting of the Association and shall serve a term of two (2) years. The President-Elect shall become President at the conclusion of his/her term as President-Elect and become Past-President at the conclusion of his/her term as President.

Section 4. The Officers shall assume their Offices at the Annual Meeting in the year following their election as provided for in Section 6.

Section 5. Vacancies in the Offices.

A. In the event of a vacancy in the Office of President, the President-Elect shall become President and serve the remainder of the term plus the term for which he/she was elected.
B. In the event of a vacancy in the Office of Past-President, the President may appoint a former President of the Association to serve until the Office is filled as provided for in Section 3.
C. In the event of a vacancy in the Office of President-Elect, Secretary/Treasurer, or International Planetarium Society Representative, the President shall nominate a replacement to be approved by a vote of the Executive Committee.

Section 6. In the event that a vacancy in any Office (except Past-President) is filled by a replacement not elected to that Office, an election to fill the Office shall be held at the next Annual Meeting occurring at least 120 days after the date of the vacancy. The elected candidates shall assume the Office at the conclusion of the Annual Meeting and serve the remainder of the term plus one additional full term.

Section 7. The Executive Committee shall have the authority to remove an Officer from any Office for good cause by a unanimous vote of the other members of the Executive Committee.

A. No Officer may be removed without a full investigation and hearing before the Executive Committee.
B. Any Officer removed from the Executive Committee may appeal the decision of the Executive Committee to the Members at the next Annual Meeting. A majority vote of the Members in attendance shall be required to reinstate an Officer.

Section 8. Duties of the Officers.
A. The President shall:

BAILLOT

Yes, I approve the revised By-Laws as printed herein.

No, I do not approve the revised By-Laws as printed herein (i.e., the existing By-Laws remain in effect).

Please return this ballot to: David E. Parker
GLPA Secretary/Treasurer
Tippton Planetarium
817 South Main Street
Tippton, IN 46072

(Ballots received after February 15, 1992 will be invalid.)
Section D. The Secretary-Treasurer shall:

1. Call and preside at all Annual Meetings and meetings of the Executive Committee.
2. Represent the Association at all times unless another representative is designated by the President.
3. Appoint the Chairs of all Committees except the Nominations Committee.
4. Prepare a written agenda for all meetings at which the President presides.
5. Serve as an ex officio member of all Committees except the Nominations Committee.
6. Perform other such duties as may be assigned by the Executive Committee.

Section B. The President-Elect shall:

1. Preside at all meetings at which the President is unable to preside.
2. Serve as the Chair of the Nominations Committee.
3. Perform other such duties as may be assigned by the President or Executive Committee.

Section C. The Past-President shall:

1. Preside at all meetings at which the President and President-Elect are unable to preside.
2. Perform other such duties as may be assigned by the President or Executive Committee.

Section D. The Secretary-Treasurer shall:

1. Record the minutes of all Annual Meetings and meetings of the Executive Committee.
2. Mail a copy of the minutes to the members of the Executive Committee within thirty (30) days after the meeting.
3. Present the minutes from the previous Annual Meeting at the Annual Meeting.
4. Be responsible for all receipts and disbursements of the Association.
5. Prepare financial statements for all Annual Meetings and meetings of the Executive Committee and at other times as required by the Executive Committee.
6. Be responsible for any audits as required by the Executive Committee.
7. Perform other such duties as may be assigned by the President or Executive Committee.

Section E. The International Planetarium Society (IPS) Representative shall:

1. Represent the Association at all meetings of the IPS Council.
2. Report to the Executive Committee on the proceedings of all meetings of the IPS Council.
3. Report to the Members at the Annual Meeting.
4. Be responsible for forwarding news of the Association to the designated individual(s) of the IPS.
5. Perform other such duties as may be assigned by the President or Executive Committee.

ARTICLE VII

COMMITTEES

Section 1. The Standing Committees of the Association shall be:

A. Membership
B. Development
C. Publications
D. Education
E. Instructional Materials
F. Conference Planning
G. Nominations

Section 2. Other Committees may be established as necessary by the President or Executive Committee. These Committees shall be dissolved upon the completion of their work or when a new President assumes office, whichever occurs first.

Section 3. The duties of the Committees shall be established by the President or Executive Committee.

Section 4. The President shall have the authority to appoint or replace the Chairs for all Committees except for the Nominations Committee with the approval of the Executive Committee. Committee Chairs shall serve until replaced or until a new President assumes office.

Section 5. Committee Chairs may establish Sub-Committees and may appoint Members of the Association to serve on the Committee and Sub-Committees as necessary to perform their duties.

Section 6. All Chairs and members of all Committees and Sub-Committees must be Members of the Association in good standing.

Section 7. The Nominations Committee:

A. The President-Elect shall be the Chair of the Nominations Committee.
B. The President-Elect shall appoint no fewer than three (3) nor more than five (5) Members of the Association who must come from at least three (3) different states within the Great Lakes area to serve on the Nominations Committee.

C. The Nominations Committee shall:

1. Nominate candidates for the Offices to be voted on by the Members of the Association at the Annual Meeting.
2. Provide the Members with written notice of the candidates nominated for Office at least twenty-one (21) days before the Annual Meeting.
3. When necessary, nominate candidates to fill vacancies in accordance with Article VI, Section 6.
4. Perform other such duties as may be assigned by the President or Executive Committee.

ARTICLE VIII

ASSOCIATION FINANCES

Section 1. The fiscal year of the Association shall be from October 1st through September 30th of the following year.

Section 2. All funds of the Association not otherwise employed shall be deposited in such banks or other financial institutions as determined by the Executive Committee. All withdrawals of funds shall be made by and all checks shall be signed by individuals authorized by the Executive Committee.

Section 3. No loans or advances shall be contracted on behalf of the Association and no notes of indebtedness shall be issued in its name, unless and except as authorized by the Executive Committee and approved by the Members of the Association.

Section 4. The Executive Committee may authorize the President and other Members of the Association to enter into contracts or to execute and deliver instruments in the name and on behalf of the Association, and such authorization may be general or limited to specific instances.

ARTICLE IX

COMPENSATION AND REIMBURSEMENT

Section 1. Members shall serve the Association without pay for their services, but may be eligible for reimbursement for expenses in accordance with Section 2.

Section 2. The Executive Committee shall have the authority to reimburse Members of the Association for expenses as necessary for the furtherance of the purposes and activities of the Association and for which receipts or other documentation is presented.

ARTICLE X

AMENDMENTS

Section 1. These By-Laws may be amended by a majority vote of the Members of the Association at the Annual Meeting. The Members shall receive written notice of all proposed amendments at least twenty-one (21) days before voting on the amendments.

Section 2. The Executive Committee may propose amendments to these By-Laws.

A. Proposed amendments shall be approved by a majority vote of the Executive Committee.
B. Members of the Executive Committee shall receive written notice of all proposed amendments at least twenty-one (21) days before voting on the amendments.

ARTICLE XI

AFFILIATION

Section 1. The Executive Committee may affiliate the Association with other professional organizations whose purposes and activities are relevant to those of the Association.

Section 2. The Secretary-Treasurer is authorized to pay such annual dues or fees as established by affiliate organizations to maintain the Association's memberships.

ARTICLE XII

DISSOLUTION

Section 1. Upon dissolution of the Association, no Member shall be entitled to any distribution or division of its remaining money or property, or the proceeds thereof. After payment of all debts and obligations of the Association, the balance of all the money and other such property received by the Association from all sources (including its operations) shall be distributed to the Armand Spitz Fund of the International Planetarium Society or other non-profit organizations as approved by the Executive Committee.

ARTICLE XIII

INDENIFICATION OF EXECUTIVE COMMITTEE

Section 1. Any individual (and heirs, executors, and administrators of such individual) made or threatened to be made a party to any action, suit, or proceeding by reason of fact that he/she is, or was a member of the Executive Committee shall be indemnified by the Association against any and all liability and the reasonable expenses (including attorneys' fees) and disbursements incurred by him/her (or by his/her heirs, executors, or administrators) in connection with the defense or settlement of such action, suit, or proceeding, or in connection with any appearance therein, except in relation to matters as to which it shall be adjudged in such action, suit, or proceeding that such member of the Executive Committee is liable for negligence or misconduct in the performance of his/her duties.

ARTICLE XIV

ORDER OF PRECEDENCE

Section 1. The order of precedence of authority in the Association shall be as follows:

A. The By-Laws of the Association
B. Votes of the Members of the Association
C. Acts of the Executive Committee
D. Acts of the President

Section 2. The President shall have the authority to decide any issue of interpretation. Any such decision may be appealed to the Executive Committee, the decision of which may be appealed to the Members of the Association.
GLPA CONFERENCE
YOUNGSTOWN, OHIO
OCTOBER, 1991
THE I.P.S. JOB INFORMATION SERVICE

By Donald S. Hall, Director
Strasenburgh Planetarium
Rochester (NY) Museum and Science Center

The IPS Job Information Service has been operating in its present format since October, 1978. Before that, job announcements were printed in the I.P.S. PRESIDENT'S NEWSLETTER, but since the newsletter was quarterly, positions would frequently open and close before it was mailed. A person looking for a job suggested to me that copying job announcements and stuffing them into waiting self addressed, stamped envelopes (SASE's) would be much more effective—and so the present system began. (If you were the person who made the suggestion, drop me a card to remind me who you are—I'd like to give you credit for a fine idea.) I can never recall fewer jobs available, nor more people looking than what we have experienced this year. This service is a benefit of membership in IPS and is provided at no cost to the IPS by the staff of the Strasenburgh Planetarium.

If you want to know about jobs, and are an IPS member, send six #10 business ("legal") size SASE's to:

IPS JOB INFORMATION
Strasenburgh Planetarium
Box 1480
Rochester, NY 14603

When job announcements arrive in Rochester, we will send you a copy and we will let you know when we use your last envelope by so marking it. You may then send more envelopes, or cease to receive announcements.
If you have a job to announce to the Planetarium community, send a one page job announcement which should include these four points:

1. **Description of the facility.** Describe not only the planetarium, but also the museum/school/institution and the city. This is your chance to "sell" the job to your potential applicants.

2. **Description of the job.** Tell what are the duties of this position, who the person works for, and who works for the person.

3. **Education and experience.** State what you're looking for in your applicants. If you're flexible, state that and suggest your preferences.

4. **Starting salary, or salary range.** Mention money up-front; it will save everyone time. A job at $20,000 per year will receive applications from a different pool of candidates than a job at $40,000 per year. If the job is on a school salary schedule, give some examples from the schedule.

The amount of turn-around time from when we mail job announcements until prospective employers begin receiving applications is as short as 10 days. We find that the Service works best for what I call "upstairs" jobs, that is, directors, assistant directors, producers, educators and the like. Job openings for technicians and artists are MUCH more difficult to fill because there are so few of the people in the world, and fewer still who want to change jobs, move to a new city and work for what you have to pay. These kinds of jobs are best filled locally with lots of on-the-job-training.

If you fill or find a job through the Job Information Service, drop us a post card and let us know how it all turned out. We know that someone is getting those jobs, but rarely hear who.
WHY NOT ADVERTISE IN THE GLPA NEWSLETTER?

By advertising in the GLPA Newsletter, you'll reach the decision makers from large and small planetariums throughout the world.

Don't miss this unique opportunity!

GENERAL ADVERTISING POLICIES

-- Advertising rates range from $18 to $125 per issue. All prices subject to change.

-- 20% off for camera-ready advertisements.

-- An additional 20% off for a one-year purchase of the same advertisement.

-- An additional 10% off for GLPA members.

-- All advertisements must be paid for at the time of submission.

To request advertising rates and a contract for GLPA Newsletter ads, please contact:
Bill Buckingham
Lowell Observatory; 1400 W. Mars Hill Road; Flagstaff, AZ  86001  (602) 774-3358
THE GREAT LAKES PLANETARIUM ASSOCIATION offers membership opportunities to all individuals in any way connected with the operation of planetariums regardless of geographic location. GLPA is an affiliate of the International Planetarium Society and the National Science Teachers Association. Membership dues are $20 annually, payable at the time of the Autumnal Equinox. General correspondence and requests for membership should be addressed to: Mr. David E. Parker, Secretary/Treasurer (address below). This quarterly GLPA Newsletter is received by all members in good standing. Ideas and opinions expressed in the GLPA Newsletter are not necessarily those of GLPA, its membership or the editor. Deadlines for contributions fall on the 1st of February, May, August, and November. Send information to: Bart Benjamin, Editor (address below). Copyright 1991.