GLPA Newsletter

VOLUME XXIX, NUMBER 1

VERNAL EQUINOX, 1994

ATTENTION MEMBERS:

May 10, 1994: The Moon's Shadow Bisects the Region
ATTENTION ALL MEMBERS:

GLPA is beginning to make plans for its fall conference in Wheeling, West Virginia. If you have any suggestions for the 1994 Spitz Lecturer, please contact Conference Planning Chairman Gary Tomlinson. Also contact Gary if you would like to conduct a workshop at the conference (particularly if it's a hands-on workshop that builds special effects) or if you have any suggestions for workshops. His address appears on the back page of this newsletter.

A complete 1993 Conference Report, along with a preview of GLPA Conference '94, will appear in the summer solstice issue of the GLPA Newsletter.
PRESIDENT'S MESSAGE
Dale Smith

The moon is the 14th largest body in the solar system, the full moon comes on the 14th day after new moon, and for those of you who have read this column for many moons, this one is my 14th and last. So perhaps you will allow me to reminisce and reflect a bit in this final essay.

In a parliamentary system of government, the tasks assigned to each cabinet minister constitute what is called a portfolio. Each minister, such as the foreign minister, has a specific portfolio. In GLPA, most members of the Executive Committee, whether elected officers or appointed committee chairs, have a portfolio. The one exception is the President, who has no portfolio. The President has certain organizing and presiding duties at meetings and conferences and must "represent GLPA" to the outside world, but otherwise has few assigned tasks. Thus the President is relatively free to set his or her own style and agenda, and this makes the job both challenging and interesting.

Each President brings his or her own skills and insight to the job, and each is different. When I took office, I looked back, somewhat intimidated, at the accomplishments of my immediate predecessors, people like Sheldon Schafer, Gary Tomlinson, Steve Bishop, and Dan Goins. Each in a unique way had served GLPA so well and made it a better organization. By the time you read this, the vernal equinox will probably have passed, and Dave Batch will be President. He will continue in this tradition, as will April Whitt after him.

For me, as I suspect for each person privileged to have had a turn at the helm, it has been a time of personal excitement, discovery, and growth. Each of us, I suspect, comes in wondering what we have to offer or what we really can do to serve in the right way. We gradually find out, as we grow into the job, just as in the jobs we get paid for. At least that's how it's been for me.

As I look back on a three-and-a-half year term that seems both a long time and a short time, it is with a sense that the responsibilities have been serious because our work as planetarians is serious. It is with a sense of awe of having been surrounded by such talented and resourceful people, a sense of satisfaction of having been able to help some here or there, and a sense of surprise that much of the president's work has been in response to unforeseen opportunities. Still, as more than

(continued on page 8)

T.G.I.S. After such a severe winter throughout our region, I'm sure that everyone is very pleased that spring has finally arrived, and with it, warmer temperatures and longer days!

Let me begin by expressing my sincere appreciation and congratulations to Dale Smith as he steps down as GLPA President. Few (if any) GLPA members can fully appreciate the magnitude of effort that Dale Smith has consistently undertaken for GLPA, an organization that he joined only ten years ago. As Dale Smith steps down, Dave Batch from the Abrams Planetarium steps up to assume his new role as GLPA President. Best of luck, Dave!

Most of you probably noticed that the winter GLPA Newsletter arrived very late last time. I apologize for this delay, which was caused by a mistake in the Bowling Green, Ohio Post Office. Instead of sending the newsletter out first class, as was our intention, the Post Office mailed it at the bulk rate instead. In the future, Dale and I will do all we can to ensure that the Post Office does not repeat this mistake.

Keep those reports and articles coming! Please note that the deadline for the summer issue is May 1, 1994. Here's wishing all of you clear skies and safe viewing of the upcoming annular solar eclipse!
**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 held on Saturday, May 14th at the William Staerkel Planetarium on the campus of Parkland College in Champaign. David Leake and Chuck Greenwood will host.

Illinois planetariums are readying themselves for the May 10th annular solar eclipse. In a recent survey of Illinois planetariums located in the path of annularity, I found that public eclipse observing will be conducted in Champaign (at the Staerkel Planetarium at Parkland College), Peoria (at the Lakeview Museum Planetarium), and Kankakee (at the Strickler Planetarium at Olivet Nazarene University).

April Whitt, who was elected to the position of GLPA President-Elect at last fall's conference, recently left the Adler Planetarium in Chicago to accept a position as Astronomer for the Fernbank Science Center in Atlanta, Georgia. Congratulations and best wishes to April!

The Cernan Earth and Space Center in River Grove is currently running Nature's Fury, its own program about severe weather. The Cerman Center recently received a new Doppler radar receiving station for its lobby exhibit area that allows for the reception of precision radar maps from the National Weather Service's new Doppler radar station in suburban Chicago.

The Illinois State University Planetarium sponsored an annular solar eclipse teacher's workshop on Friday, March 18th. In addition to this, Carl Wenning recently completed a booklet entitled "The Great Eclipse," which he is distributing to members and selling to planetariums, museums, and science centers throughout the state. Their current show is Eclipse! which is live and interactive. Also playing is Moon Magic, which discusses all aspects of our closest neighbor in space.

The Lakeview Museum Planetarium is currently running its in-house production, Eclipse! An eclipse workshop for local educators was part of this program's opening day activities. The planetarium is also sponsoring a series of hands-on workshops in cooperation with the Peoria school district. Family Science Sundays saw the museum's inflatable planetarium in use in a Chillicothe Park District and Lakeview Museum joint venture.

### INDIANA

Chairman: Alan Pareis  
9421 Stagecoach Drive  
Fort Wayne, IN 46804  
(219) 432-8786

The Indiana State Meeting will be held on Saturday, April 16th at the Allen Memorial Planetarium in Terre Haute. Jerry Mansfield will host.

The Koch Planetarium in Evansville has been doing Girl Scout badge workshops in the planetarium. The Evansville Museum has begun testing a portable UV-B sensor that will monitor the amount of "tanning" radiation received at their location. This hand-held device is available free of charge to museums, science centers, and planetariums in the United States. Contact Director Mitch Lumen for more information.

The SpaceQuest Planetarium in Indianapolis is currently showing A Solar System Stakeout, featuring an alien "Sam Spade" character, and is also working with the Indiana Astronomical Society to do a program on May's solar eclipse. The Sudekum Planetarium production of Planet Patrol will premiere at SpaceQuest in late April.

The P-H-M Planetarium and Space Museum in Mishawaka has completed a renovation of the planetarium to include a U.S. Manned Space Museum. The museum includes 50 artifacts from the Smithsonian and Johnson Space Center, some of which have been to the moon. The renovation also features display cases and larger glassed-in areas with dimmer-controlled track lighting. Their spring show is The Weather Machine.
The Michigan State Meeting was held on Saturday, March 12th at the Kalamazoo Public Museum Planetarium in Kalamazoo. Eric Schreur was the host.

At the end of June, the Chaffee Planetarium in Grand Rapids completes 33 years of operation with final performances of *Sandy Pepper and the Eclipse*, *Camping Trip with Grandpa*, and *Voyage Through the Milky Way*. The grand opening of their new 50-foot Digistar facility is scheduled for November 19th.

Abrams Planetarium in East Lansing is currently showing *Galaxies* and *Secret of the Cardboard Rocket*.

Longway Planetarium in Flint is presenting *The Case of the Missing Dinosaurs* and *A Starry Night*. Work continues on the plans for a science center to be attached to the current planetarium.

The McMath Planetarium at Cranbrook in Bloomfield Hills is presenting *The Day the Sun Vanished*. Cranbrook lies within the path of annularity for the May 10th eclipse. Comet discover David Levy brings his Great Comet Crash Tour to Cranbrook on May 21-22.

The Ohio State Meeting will be held on Saturday, April 16th at the Lancaster High School Planetarium in Lancaster. Roger Grossenbacher will host.

Several Ohio university planetariums are running in-house productions this season. At the Youngstown State University Planetarium, *Serpents of the Sun* examines the archeology and celestial alignments of prehistoric mounds in Ohio. Ted Pedas recently retired after many years as a planetarium lecturer and was honored by his friends and colleagues in February. Congratulations, Ted!

At the Toledo Planetarium, *Native American Sky Lore* examines the mythology of native American cultures and the ways that those cultures responded to celestial events and cycles.

At the Bowling Green State University Planetarium, *Unworldly Weather* presents the most spectacular weather throughout our solar system.

Wade Allen is the new planetarium director at the Dayton Museum Planetarium, succeeding Art Goss who has moved to Seattle. Art is currently teaching physics at Bellevue Community College. Best wishes to both Art and Wade!

In Cleveland, CRAP continued its monthly meetings with January and February gatherings. At the February meeting in Euclid, participants had an opportunity to see a mobile observatory currently being developed by Wes Orloff. Several telescopes and video equipment will be housed in this trailer and will circulate to participating schools in the area.

The WIMPS (Wisconsin-Iowa-Minnesota Planetariums) State Meeting will be held on Friday and Saturday, April 22nd and 23rd at the University of Wisconsin Planetarium in Stevens Point. Randy Olson will host.

In April, the University of Wisconsin Planetarium in LaCrosse will feature the Minneapolis Planetarium's production of *The Eclipse Game*. In early April, they will present laser light shows
PATRON MEMBER LIST CORRECTION

Due to a clerical error, the name of Bowen Music was accidentally omitted from the Patron Members list that appeared in the previous issue of the GLPA Newsletter. GLPA apologizes for this oversight. The revised GLPA Patron Members list appears on page 9.

Speaking of Bowen Music, they recently received a 1993 Cindy Gold Award for an educational video series which they scored. Jeff Bowen and staff have been selected to provide a music package for the National Air and Space Museum in Washington, D.C. Jeff Bowen has also signed with Prentice Hall/SAMS to write a 300-page book with the working title "Computers and Music."

EXECUTIVE COMMITTEE MEETING

The spring meeting of the GLPA Executive Committee will be held in South Bend, Indiana on Saturday, April 23, beginning at 10 a.m. Eastern Standard Time. Members of the Executive Committee will be receiving more information by mail. Others interested in attending this meeting are welcome to contact Dayle Brown at (219) 282-1885 for more information.

GLPA NOMINATION FORMS DUE

If you would like to nominate someone for the award of "GLPA Fellow" or "GLPA Honorary Life Member," please complete the appropriate form on pages 17-20 of the Winter Solstice edition of the GLPA Newsletter and return the completed form to GLPA Membership Chairman Eric Schreur by April 15th.

TIPS BOOKLET PREVIEW

As was mentioned in previous issues of the GLPA Newsletter, Marilynn Bacyinski is collecting ideas and tips for preparing and presenting school programs for publication in a GLPA Tips Booklet. However, many more contributions are needed before this booklet can become a reality.

The proposed categories for this booklet are: 1) planning and delivering school programs, 2) preparing materials to use in planetarium lessons, 3) presenting selected concepts in the planetarium, 4) activities supplemental to planetarium lessons, 5) special needs of portable planetariums, and 6) a list of resources and references.

Please send any ideas and suggestions that you have before May 31, 1994 to Marilynn Bacyinski; Chatterton Planetarium; Fitzgerald Public Schools; 23200 Ryan Road; Warren, MI 48091.

ASTRONOMY DAY CONTEST

As was mentioned before in this column, National Astronomy Day is scheduled to take place on Saturday, April 16, 1994 and Astronomy Week is designated as April 11 through 17, 1994. Any organizations hosting Astronomy Day are eligible to submit an entry into the Astronomy Day Award. Updated entry forms and rules are available by sending a self-addressed, stamped, legal-sized envelope to Astronomy Day Award; Gary Tomlinson; Public Museum of Grand Rapids; 54 Jefferson SE; Grand Rapids, MI 49503. Official entries must be postmarked by June 13, 1994.

V.M. SLIPHER AWARD

During 1994-95, the V.M. Slipher Committee will have a modest amount of funds 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 or to provide programs or services to more than a single group. Awards are generally less than $1,000.

To receive guidelines for application, please contact Dennis Schatz, Chairman; V.M. Slipher Committee; Pacific Science Center; 200 Second Avenue North; Seattle, WA 98109. Completed applications must be postmarked by May 20, 1994.
NSTA CONFEREES CAN HELP GLPA

The National Science Teachers Association now provides the opportunity for NSTA convention attendees to designate $2 of their registration fee as a contribution to any NSTA State Chapter of Associated Group (CAG). Since the Great Lakes Planetarium Association is number 78 in the listing at the Anaheim convention, we would appreciate your taking the time to provide this support to GLPA at this or any future NSTA convention. Thank you.

NSTA BOOK ON WEATHER

The National Science Teachers Association has just completed a new book entitled "Project Earth Science: Meteorology." Intended for grades 5 to 10, this book combines classroom activities and factual information around three key concepts: 1) the origin and composition of the earth's atmosphere, 2) factors that contribute to weather, and 3) the interaction of air masses.

This 229-page book costs $18.50 plus $3.75 shipping and handling. To order, please contact NSTA Publications Sales, 1840 Wilson Blvd., Arlington, VA 22201. Request stock number PB-103X.

ATTENTION MIDDLE SCHOOL TEACHERS

In today's educational climate, middle school students require special methods, curricula, and learning environments. As a teacher of these students, are you looking for resource opportunities? Perhaps you should join the National Middle Level Science Teachers Association (NMLSTA), which was founded in 1990 and boasts a membership of nearly 1,000. To become a member of NMLSTA, send $10 to Rowena Hubler; Ohio Department of Education; 65 S. Front Street; Columbus, OH 43266. For information only, contact Mick Korba; NMLSTA; c/o Wheeler School; 216 Hope Street; Providence, RI 02906.

AAS LOOKING FOR ASTRONOMY RESOURCE AGENTS

The American Astronomical Society would like to inform teachers of an opportunity to become Astronomy Teacher Resource Agents. These individuals will lead hands-on astronomy workshops for other teachers in their geographic region.

Those teachers selected for the program will attend a four week institute to be held at Loyola University in Chicago, Northern Arizona University in Flagstaff, or the University of Maryland at College Park in the summer of 1994.

Participant's room and board, up to $300 in travel expenses, and a $1,200 stipend will be provided. Elementary and secondary school teachers with a strong interest in astronomy and who have not previously attended an NSF sponsored Teacher Enhancement program are encouraged to apply.

For further information and applications, please contact Dr. Mary Kay Hemenway; American Astronomical Society Education Office; University of Texas; Austin, TX 78712. Her telephone number is (512) 471-6503.

STRASENBURGH PRODUCTION SEMINAR DATES

The Strasenburgh Planetarium's 11th Production Techniques Seminar will be held in Rochester, New York from Sunday, July 17 through Thursday, July 21, 1994, immediately following the I.P.S. Conference in Cocoa, Florida. For full details, contact Donald Hall, Director; Strasenburgh Planetarium; Rochester Museum and Science Center; 657 East Avenue, Box 1480; Rochester, NY 14603. His telephone number is (716) 271-4552, ext. 400.

1994-95 PLANETARIUM INTERNSHIPS

The Buehler Planetarium in Davie, Florida is accepting applications for a 12-month internship which begins on July 1, 1994. Applicants 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. Interns receive a stipend of $17,000 for the 12-month period. Interested persons should send a letter of interest, resume, the names of two references, and a copy of transcripts from schools or colleges attended to Dr. David H. Menke, Director; Buehler Planetarium; Broward Community College; 3501 S.W. Davie Road; Davie, FL 33314. The deadline for completed applications is April 8, 1994.

The Strasenburgh Planetarium in Rochester, New York is also accepting applications for its 1994-95 intern position, which is a 12-month appointment beginning September 6, 1994. To be
BULLETIN BOARD (cont.)

considered, you must have at least a bachelor's degree, some planetarium experience, a thorough knowledge of astronomy, U.S. citizenship, and excellent communication skills, especially with children. Interns receive a base stipend of $11,000 for the 12-month period. For complete application procedures and guidelines, contact Francis C. Biddy, Producer/Astronomer; Strasenburgh Planetarium; Rochester Museum and Science Center; 657 East Avenue, Box 1480; Rochester, NY 14603. His telephone number is (716) 271-4320. Completed applications must be received by noon on June 1, 1994. All applicants will be notified of the final decision by July 31, 1994.

POSITION ANNOUNCEMENT

The Madison Metropolitan School District in Madison, Wisconsin is seeking a knowledgeable and creative person to fill the position of Planetarium Teacher. The Planetarium, located in Memorial High School, serves the K-12 students of Madison and surrounding communities as well as preschool children and adults from the general population. To request an application, please contact the Human Resources Department; Madison Metropolitan School District; 545 W. Dayton Street; Madison, WI 53703. Their phone number is (608) 266-6050. Completed applications must be received by April 15, 1994.

PRESIDENT'S MESSAGE (cont. from p. 3)

one of my predecessors has said to me, there is a sense of loss as the office passes on because there is more each of us would have liked to accomplish; but there is also a sense of release and of anticipating how the next person will bring his or her unique talents to serve us.

A danger of working closely with an organization like GLPA for several years is to start thinking of it as an entity with its own reality. But of course it isn't that way. There's no building called GLPA, or any tangible "thing," other perhaps than the incorporation papers and bank accounts. GLPA, like any other planetarium association, is no more and no less than the collective endeavors and spirit of all of us who are working together to be better planetarians. GLPA finds its reality in the spirit, experiences, and understand-

ing we share with each other, and ultimately with our students and audiences.

When I think of GLPA, I think first and foremost of people -- the people met at meetings who have become colleagues and friends -- and the people I've been privileged to serve with on the Executive Committee. Take a minute to look at the names of officers and chairs listed on the back page of this newsletter. They are all volunteers. Each is selflessly giving many, many hours to GLPA, besides holding down a busy full-time job at school, museum, or college. With little fanfare except for a couple minutes to report at the annual business meeting, they are doing the real work of the organization. The next time you see one of them, thank them for all they do. (Better yet, volunteer to help them in some way.) The collective talent and dedication they bring to the table is the reason GLPA functions so well. And we need to do well, both as an organization and as individual planetarians.

Together, we are facing years ahead of both challenge and opportunity. We face challenges of budget and time, resistance by elements of our culture to the curiosity-driven learning we espouse, resistance by many students to the hard work they must do to learn our material, and the resistance of many segments of the population to ever engaging our material in classes or shows. Yet there is cause for optimism. We have what we know to be incredible subject material. We have wonderful technology and human insight to help us teach it. We see the joyful spark of learning among our audiences and students. And we are part of a dedicated community of planetarians. For me it is a privilege to be a member of that community and to have been entrusted to serve it for a while.

STATE NEWS (cont. from page 5)

produced and presented by Laser Systems Development of Colorado Springs.

The University of Wisconsin Planetarium in Stevens Point is currently showing the Bishop Planetarium production of The Power. They are also presenting sky shows on Mondays and laser light shows on Tuesdays.

The Horwitz Planetarium in Waukesha will feature Hansen Planetarium's production of Cosmic Catastrophes as its public show during April.

The Minneapolis Planetarium is running its production of The Eclipse Game through May as its public offering.
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The Great Lakes Planetarium Association would like to thank the following Patron Members for their generous support:

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To request advertising rates and/or a contract for GLPA Newsletter ads, please contact either of the following persons:

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One of the great celestial events of the year will take place on May 10, 1994. This fantastic solar eclipse will be visible to over 300 million people on the North American continent. Make sure you are prepared to view this once in a lifetime event.

View this spectacular solar eclipse safely with Eclipse Shades™ solar viewing glasses from Rainbow Symphony, Inc. Eclipse Shades™ provide the ultimate in protection from harmful Solar Radiation. Lenses made of Optical Grade, Neutral Density 5, Double Aluminized 2 Mil Mylar, filter out 100% of harmful Ultra-Violet, 100% of harmful Infra-Red, and 99.999% of intense Visible Light. Eclipse Shades™ give you a cool, clear view of solar eclipses, sunspots and other solar phenomena. Order now to guarantee delivery before this rare annular eclipse takes place.

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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 1994.

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FUTURE GLPA CONFERENCE DATES:
1994 Oct. 26-29 Wheeling, WV
1995 Oct. 25-28 Grand Rapids
1996 Looking for volunteers; if you are interested, contact Gary Tomlinson (address given in next column).

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FIRST CLASS MAIL
HAVE A WONDERFUL SUMMER!
Beginnings provide one of those natural opportunities in life to pause and assess. Beginning my term as GLPA President has allowed me to think more carefully about our association. I took for granted that GLPA was a sound organization which provides useful services to the planetarium community. But looking closely reminded me just how valuable and vital this group is.

On a personal level, I realized that GLPA was the first professional organization I ever joined. The first professional meeting I ever attended was a GLPA conference. Through GLPA I have met a tremendous group of talented, hard working (and fun-loving) people who provide me with a lifeline beyond my own domed existence, and who understand and share this passion for astronomy, teaching, and these peculiar circular rooms. Many of you will offer similar testimonials, I know. We think of GLPA conferences more as family reunions than professional meetings. New members will come to appreciate just how vital these contacts with other planetarium professionals are.

Thinking about the array of services GLPA provides clearly tells me how valuable the association has become. In the early days it was enough to provide an opportunity for people to meet. Now we offer, in addition to top-notch conferences, the quarterly *GLPA Newsletter*, conference Proceedings, TIPS booklets, libraries of slides, scripts, software, instructional materials, and group rates on insurance, no less!

These services are a direct result of the dedication of the GLPA executive committee, both past, but particularly present. I belong to a number of organizations and have never seen a harder working group of people than your executive committee. And amazingly, it is a totally volunteer effort! Take a moment to look at the back cover of this newsletter where the executive committee members are listed. I cannot overemphasize the gratitude we owe them. I hesitate to single out any individual, but I personally have to thank Dale Smith for the excellent job he did as GLPA President. He could not have left me or GLPA in better shape.

I look forward to the opportunity to return something to the organization that has given me so much. If ever you have comments or questions about GLPA, drop me a letter or send me a note via e-mail. I can be reached at: dbatch@msu.edu. Here’s to a great professional organization! Here’s to us!

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On May 10th, our entire region was graced with picture perfect weather for the annular solar eclipse. Those of us who were fortunate to live under (or drive to) the path of annularity witnessed a magnificent and memorable sight! Many of you undoubtedly took photographs or videotaped this once-in-a-lifetime celestial event. If you did, would you be willing to share these images with your planetarium colleagues through the GLPA slide and video bank?

If so, please send what you have to Mitch Luman at the Koch Science Center Planetarium; Evansville Museum; 411 S.E. Riverside Drive; Evansville, IN 47713. Mitch oversees GLPA’s audio visual files, which includes the slide bank, script bank, video bank, and computer bank. If you need to call him, his number is (812) 425-2406. What better way could you assist your fellow planetarians in explaining the subject of solar eclipses than by sharing with them your photographic or videographic images?

Please note that the deadline for the autumn issue of the *GLPA Newsletter* is August 1, 1994. Until then, here’s wishing all of you a wonderful summer and clear skies for the Jupiter-comet collisions in July!
ILLINOIS

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River Grove, IL 60171
(708) 456-0300, ext. 408

The Cernan Earth and Space Center of Triton College in River Grove is currently presenting the C-360 film The Space Shuttle: An American Adventure preceded by the mini-show We Came in Peace about the first lunar landing mission. The Cernan Center is also presenting the Sudokum Planetarium's production of Our Place in Space as its Saturday children's show and an all-new laser light show set to the music of Pink Floyd's "Dark Side of the Moon." The Cernan Center's July 16th Monthly Skywatch will feature telescope observation of the first comet particle impact with Jupiter that will be visible from our hemisphere.

The Illinois State University Planetarium in Normal is presenting its own production of Space Sounds, a unique program that converts the electromagnetic vibrations normally found in space to audible sound, providing audience members a chance to listen to the unique and often mysterious sounds of the cosmos. The ISU Planetarium is also presenting the children's program The Little Star that Could on Saturdays through July 23rd.

The Lakeview Museum Planetarium in Peoria is currently showing Moon Quest, a choose-your-destination trip to the satellites of the solar system. It will be replaced in July by A Starry Tale, featuring puppets on video and starring Basketball Jones, astronomy's "hippest" dragon. Girl Scout badge days, in which Brownie Scouts completed a badge in a day, have proven successful for girls and museum alike. In August, Bradley University and Lakeview will co-present a graduate course on hands-on science and technology in the student centered classroom, utilizing both facilities.

The William M. Staerkel Planetarium at Parkland College in Champaign hosted approximately 20 planetarians at the May 14th Illinois State Meeting. The Staerkel Planetarium will commence Thursday programming beginning June 2nd and continuing through August 11th. The feature We Came in Peace, commemorating the 25th anniversary of the Apollo 11 landing, will open June 2nd. A new show celebrating the Woodstock era entitled The Age of Aquarius will play at 9:30 p.m. and run through the summer. A grant from the Illinois Board of Higher Education will allow the Staerkel Planetarium to initiate a telescope loaner program this fall.

INDIANA

Chairman: Alan Pareis
9421 Stagecoach Drive
Fort Wayne, IN 46804
(219) 432-8786

Thanks to Jerry Mansfield from the Allen Memorial Planetarium in Terre Haute, for hosting the Indiana state meeting on April 18th. The Merrillville Community Planetarium and the Koch Planetarium brought the most people to the meeting. One highlight of the meeting was a tour of the Children's Science and Technology Museum, which Jerry also directs. Don't miss seeing this if you are ever in Terre Haute.

Amera Platt from the Wayne High School Planetarium in Fort Wayne hosted the May meeting of the Fort Wayne Astronomical Society. The program was Our Favorite Points of Light. Society members took turns at the pointer showing how to star hop to their favorite celestial object.

ATTENTION PLANETARIANS

If news of your planetarium is missing from this State News column, please send updated information to your state chair before August 1, 1994 for inclusion in the autumn issue of the GLPA Newsletter.
MICHIGAN

Chairman: Jeffery Bass
Robert McMath Planetarium
Cranbrook Institute of Science
1221 N. Woodward Avenue
P.O. Box 801
Bloomfield Hills, MI 48303
(810) 645-3235

The Abrams Planetarium in East Lansing is presenting Galaxies and The Secret of the Cardboard Rocket.
The 30-foot, Goto equipped Chaffee Planetarium in Grand Rapids permanently closes after their last performance on June 26th. The new 50-foot Digistar planetarium (host site for the 1995 GLPA Conference) is scheduled for grand opening on November 19, 1994, with an all-new production called Sky Dance.
The Longway Planetarium in Flint is running Space Elves and Case of the Disappearing Dinosaurs. Their laser shows include The Doors, Pink Floyd’s Dark Side of the Moon, and U2.
The McMath Planetarium in Bloomfield Hills is presenting The Greatest Cosmic Space Stunts in conjunction with Cranbrook’s summer showcase exhibit from the Ontario Science Center called “Sport.”

OHIO

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

Nearly 25 Ohio planetarians gathered for their spring meeting in Lancaster on April 16. Roger Grossenbacher was host. Among invited speakers, Dr. Brad Peterson of Ohio State explained his research using the Hubble Space Telescope to observe light echoes in active galaxies and Tom Burns described the public programs he leads at Perkins Observatory. Warren Young, Rick Pirko, and crew from Youngstown showed a version of their new planetarium program Serpents of the Sun dealing with solar alignments in Ohio’s archaeological mounds; the program includes extensive original surface and aerial photographs of several sites. A variety of contributed papers, lunch, and a look around the planetarium rounded out the day’s program.
Clear skies graced northern Ohio’s planetariums along the path of annularity on the May 10th eclipse. Most school planetariums had their classes watching the eclipse and public eclipse watches were held at Toledo and Bowling Green, among other places.
CRAP continued its monthly meetings, with an April 26th meeting hosted by Joe DeRocher at the Cleveland Natural History Museum and a May 21st meeting hosted by Dick Speir at Sandusky.
The CRAP Mobile Observatory developed by Wes Orloff and Dan Francetic is now in operation. Among its equipment are two telescopes with CCD cameras, a laser disk player, a CD-ROM player, and more. It will circulate to several participating schools. The Observatory recently received a $10,000 Tapestry Grant, one of only 40 out of 800 applicants. Congratulations, Wes and Dan! The Mobile Observatory is expected to be available for viewing at GLPA’s October conference in Wheeling.

WISCONSIN

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

The Wisconsin-Iowa-Minnesota Planetarians met at the University of Wisconsin-Stevens Point Planetarium on April 22nd and 23rd. Host Randy Olson had an open house and laser light show on Friday evening. On Saturday, his staff presented The Power (produced by the Bishop Planetarium in Bradenton, Florida) and Hansen Planetarium’s production of Springtime of the Universe. Oral

(continued on page 6, column 2)
**HANDS-ON ASTROPHYSICS**

The American Association of Variable Star Observers (AAVSO), through a major grant from the National Science Foundation, is embarking on "Hands-On Astrophysics," a project that will use variable star data and observations to develop interest and skills in high school science and math courses. Over the next three years, the AAVSO will be creating databases, charts, slides, teacher and student materials, computer software, videos, and other instructional materials.

By carrying out research projects in variable star observing, students would develop and integrate a variety of skills in math, science, computing, graphical interpretation, and presentation of oral and written reports.

In preparation for this, the AAVSO would like teachers to send them copies of their local curriculum guidelines for upper-year math, science, and computer courses in which these modules might be used. It is not necessary for you to send us entire books of curriculum guidelines -- only copies of relevant pages. On any information you send, please indicate what document it came from and how to obtain copies of the complete document. Their address is: American Association of Variable Star Observers; 25 Birch Street; Cambridge, MA 02138-1205. Their phone number is: (617) 354-0484.

**POSITION ANNOUNCEMENT**

The Buehler Planetarium of Broward Community College in Ft. Lauderdale, Florida is presently seeking applicants for the position of Technical Producer. This person would produce and present original laser shows, design and build special effects, and repair and maintain planetarium equipment. Candidates must have a degree in electronics or related field and two years full-time (or four years part-time) technical planetarium experience. The salary range is $26,000 to $34,000 plus generous benefits. For more information, please send a letter of interest, resume, college transcripts, list of three references, and other supporting materials to: Sharon Parker; Assistant Director; Buehler Planetarium; 3501 S.W. Davie Road; Davie, FL 33314.

**KEN PERKINS RETIRES**

Kenneth E. Perkins, Director of the St. Petersburg Junior College in Florida, retired from that position on May 10th.

Actually, this was Ken Perkins' third career. His first career was as a junior high school science teacher in Fairfield and Vandalia, Ohio from 1952 until 1970. His second career was as planetarium director for the Vandalia-Butler City Schools. Upon retirement from that position in 1980, he was invited to St. Petersburg, Florida to become planetarium director at the St. Petersburg/Gibbs Campus. Congratulations and best wishes to Ken!

**PPA/RMPA JOINT CONFERENCE**

The Pacific Planetarium Association and the Rocky Mountain Planetarium Association will be conducting a joint conference at the Reuben H. Fleet Space Theater in San Diego, California on October 14, 15, and 16, 1994.

For full details about this exciting conference, please contact John Young or Dennis Mammana at The Reuben H. Fleet Space Theater and Science Center; P.O. Box 33303; San Diego, CA 92163-3303. Their phone number is (619) 238-1233, ext. 831.

**STATE NEWS**

(continued from page 5, column 2)

papers were presented by Bob Bonadurer (Minneapolis Planetarium Update), Bob Elliott (Optical Sky Phenomena), Doug Holt (Tips for Retirement), Randy Olson (Blue Skies and Red Sunsets), and Bob Allen (Why is That Light in the Sky Moving So Strangely?). Dr. Paul Thomas of UW-Eau Claire gave an excellent talk on the upcoming collision of Comet Shoemaker-Levy with Jupiter.

Dave DeRemer of the Horwitz Planetarium in Waukesha will be teaching a "College for Kids" class at UW-Milwaukee again this summer.

The UW-La Crosse Planetarium will hold a "Young Scholars" astronomy class for 3rd through 8th graders from July 11-15.
1993 GLPA CONFERENCE REPORT
Gary Tomlinson
Chaffee Planetarium

128 people attended the Dayton Conference. Of these, 57 filled out conference evaluation forms with ideas, suggestions, comments, praise, and complaints. My job is to take these suggestions and improve each conference.

For the first time since it started, the Astronomy Update Lecture was not the highest rated event of the conference. Out of a possible 4.0 points, the update scored a 4.0 (keep reading, I'll explain this in a moment). Jon Marshall's Spitz Lecture averaged a 4.1 (again, out of a possible 4.0). The reason for this unusual scoring is that many people rated Jon as better than an "A." Jon's superlative job in 1993 is going to make the Executive Committee's job of selecting a 1994 Spitz Lecturer very difficult (thanks, Jon!).

The lowest rated events of the conference were the hotel and free time. Members who attended three conferences or less were the most critical of not having enough free time (I guess we've got the veteran conference goers trained pretty well now). My favorite comment in regard to this was, "this isn't a vacation, so I don't expect much free time." I continue to encourage our members to think of a GLPA convention as a smorgasbord. You need to pick and choose what you need and like. We certainly don't want people complaining that there was nothing at the conference for them. Some people stated that they "created some free time to visit the Air Force Museum." Remember, you can also arrive early or stay late to see local sites.

Almost everyone felt they got their money's worth from the conference. However, a surprise for me was that 93% stated that GLPA should not reduce the quality of the food to hold down conference costs. Many voiced their opinion that food was very important and should be improved (I assume at an increased price). The average fair price suggested for registration was $81.00 (the range was from $20 to $150) and the average fair price suggested for the package was $70.00 (this ranged from $30 to $170). About 20% of the delegates have attended three or less conferences. Of course, 20% have been members for three years or less, too.

By far and away, the most requested workshop was one that allowed delegates to make special effects. Many members stressed they wanted to actually make them on site, not just talk about it. "Working with the Americans with Disabilities Act" and "make-it and take-it educational workshops" came in a distant second. If anybody has specific ideas on workshops or is willing to conduct workshops, please contact me as soon as possible (specify what effect you actually want to make, what concept you want a hands-on activity for, etc.).

Where should the 1996 conference be? Chicago was the clear winner, with Abrams (East Lansing, Michigan), Wisconsin/Milwaukee, and St. Paul/Minneapolis all tieding for second. One recurring suggestion was to choose a non-Digistar site (note: Wheeling is a non-Digistar site). Other suggestions included small domes (24-30 feet -- any volunteers?), Acapulco, and a Royal Caribbean Cruise ship. I assume this requestor still wants the total conference cost to be under $400, including transportation.

Many of your comments on what GLPA could do better have been incorporated into the Conference Guidelines. Others will be discussed at the spring Executive Committee Meeting. In the "you can't win" category, some people suggested concurrent paper sessions while others praised us for not having concurrent sessions (but maybe it is time to reconsider concurrent papers. There seems to be just as many people for them as against them). Others said get door prizes for everybody (we did all get very nice folders!) while others suggested that we do away with door prizes. Some said conference costs were too high while others said GLPA should raise conference registration to make sure we make money on the conference. And many people made comments like each of the following:

-- excellent conference.
-- thank Art and Wade for us.
-- Jon Marshall was outstanding -- the highlight of the conference.

(I have to get my two cents in about Jon -- I agree!) So, considering all the comments we received, it is clear that if you missed the Dayton conference, you really messed up!

Please keep your comments and suggestions coming. They are important. They are read. Every Executive Committee member got a typed,
four-page list of your comments from the Conference Evaluations. If your comment wasn't mentioned in this article, rest assured, I will discuss it along with many others at the spring Executive Committee meeting, so keep 'em coming.

THE COST OF ATTENDING A GLPA CONVENTION
Gary Tomlinson Chaffee Planetarium

Every year on conference evaluations, members mention the rising costs of attending conventions, so I decided to investigate the "typical cost" of attending a GLPA conference. For the purposes of this article, "typical cost" is defined as regular dues ($20) plus the meal package plus three nights of the motel divided by two people. I have assumed that most of us share a room and split the motel cost in half. Not included in the "typical cost" is any transportation or other expenses to and from the conference, the Thursday evening meal, or the group photograph. "Typical costs" are listed below.

<table>
<thead>
<tr>
<th>Conference Year</th>
<th>Typical Conference Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1984</td>
<td>$148.50</td>
</tr>
<tr>
<td>1985</td>
<td>$168.00</td>
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<td>$172.00</td>
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<td>1991</td>
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<tr>
<td>1992</td>
<td>$245.50</td>
</tr>
<tr>
<td>1993</td>
<td>$248.50</td>
</tr>
</tbody>
</table>

According to these figures, conference costs took a big jump in 1990 (about $100) and have never gone back down. The average cost for the last four conferences has been about $260.00. Add this figure to whatever costs you have for getting to and from the conference plus a meal and you'll have a rough idea of the minimum cost for the 1994 conference. Steve Mitch (our next conference host) has already told us that the 1994 conference will be expensive, mainly because we'll be staying in a resort. You might want to start saving for it now.

But is the recent "typical cost" of $260 out of line compared with the 1987 cost of about $200? Using the Consumer Price Index as a guide and calculating what a $200 conference in 1987 dollars would cost today, we find the cost of living has increased by 26%. Increasing the 1987 conference cost by 26% yields about $252, so we are not far off from our current average cost of $260.

Maybe the conferences are better now than they were in 1987. They certainly are more complicated. We not only have the Spitz Lecture, we now have the Astronomy Update Lecture. Our dues have gone up to help pay for the Proceedings (printed versions of all talks given at the conference). And almost everyone who filled out a conference survey stated that they got their money's worth. So between the Consumer Price Index and adding more to the conventions, maybe we aren't doing so bad after all. Even so, since the 1994 conference will be more expensive, I'd plan for a "typical cost" of at least $300 next year.

GLPA MOBILE NEWS NETWORK
part of the IPS Mobile News Network conducted by Dayle Brown

Don't miss this year's GLPA Conference in Wheeling, West Virginia! We'd like to see some new faces and hear your clever ideas in our Portable/Small Dome Workshop. Please contact me as soon as possible to plan your presentation.

Finally! We're planning two "Make-it, Take-it" Workshops for us low-tech folks. Let's hope we can attend both. I will be presenting one for a Mini Brute Force Panorama Projector suitable for Starlab and other small domes. The other will be presented by Dave DeRemer and Joe Hopkins. This is one workshop I don't want to miss! (Whatever they plan to help us build, I need.) Both of these workshops will involve pre-registration and some costs, so watch for your registration information coming in August. So mark your calendars for October 26-29, 1994. See you there!
Conference host Steve Mitch invites all GLPA members to the 30th Annual Great Lakes Planetarium Association Conference to be held at the Oglebay Resort and Conference Center, October 26 - 29, 1994.

The host planetarium is the Benedum Natural Science Theater which opened in June of 1978. The planetarium features a Spitz 512 instrument under a 40-foot tilted dome, 140 unidirectional seats, JHE Screenmaster III automation, C-360 35 mm film capabilities, Laser Fantasy Rainbow 2000 Laser system and Pangolin production software, and a digital sound system. The planetarium staff consists of a full-time director, a full-time technician, and 6 part-time personnel who serve an average of 132,500 visitors each year.

Oglebay is located just three miles from I-70 and five miles from downtown Wheeling. The family resort is nestled among the western foothills of the Appalachian Mountains at an average elevation of 1,400 feet above sea level. During late October, much of the fall foliage is still on the trees and should present a spectacular natural show.

Lodging and many of the conference functions will be held at Oglebay's Wilson Lodge, a 210-room rustic lodge. A block of rooms for the conference are being held at the special conference price of $80.00 single, $85.00 double. PLEASE NOTE! The rooms at the lodge will be held until Tuesday, September 14, 1994. After that date, any
remaining rooms will be released and cannot be guaranteed. Room reservations may be made by calling (304) 243-4090.

Conference registration will be kept as low as possible and should be close to that of past conferences. Registration materials will be sent to all GLPA members in mid-summer. Registrations must be made in advance of the conference with the registration deadline being September 23rd.

A meal package is currently being planned (prices are not locked in until July 1st). The package will include a continental breakfast each morning, lunches on Thursday, Friday, and Saturday, a Wednesday night reception, and the Friday night banquet. Those who prefer a vegetarian menu will be able to select that option when registering.

Paper proposal forms will be sent with the conference mailing in mid-summer. Papers will be limited to 15 minutes (10 minutes for paper and 5 minutes for questions and answers. The deadline for paper proposals will be September 23rd.

CALL FOR WORKSHOPS

A portable planetarium workshop session has already been arranged and will be conducted during one of the morning sessions. If you wish to present a workshop, the deadline for proposals is Friday, July 15th. To make a proposal, simply send a brief abstract with workshop titles, a brief description, and suggested fee for materials (if applicable) to Steve Mitch, conference host. Please keep in mind that a limited number of workshops will be accepted due to space limitations.

Wheeling Jesuit College, located just three miles from Oglebay, will open three new NASA centers just prior to
the conference. The Classroom of the Future, Challenger Center, and NASA's National Technology Transfer Center will be open and will be available to the GLPA Conference on Thursday evening.

Conference speakers will include the following:

Dr. James B. Kaler -- "Astronomy Update 1994"
Ray Villard -- "Space Telescope Update and HST Imaging of P. Shoemaker-Levy Impact with Jupiter."
Dr. William Cassidy -- "Hunting Meteorites in the Antarctic"

As an added bonus to this year's conference, GLPA delegates who are model train buffs can bring their "O" or "027 gauge" three-rail trains and have the opportunity to run it on Oglebay's 1,200 square-foot model railroad display. It's a "once in a lifetime" opportunity!

We hope to see all of you in Wheeling this fall. Please mark your calendars now!

GLPA ARTICLES
(continued from page 8, column 2)

What are you up to this summer? We'd love to hear and share your ideas. Please send me your latest news for inclusion in our next issue. Thanks.

Dayle Brown
713 Cushing
South Bend, IN 46616
EXECUTIVE COMMITTEE MEETING
SOUTH BEND, INDIANA, APRIL 23, 1994

PRESENT: David Batch, Pres.; Dale Smith, Past-Pres.;
April Whitt, Pres.-Elect; David Parker, Sec/T.; David DeRemer,
Educ. Chair; Bart Benjamin, Publications; Dayle Brown, I.P.S.
Mat; Jeff Bass, Development; Steve Mitch, 1994 Conference Host

CALL TO ORDER: The meeting was called to order by
President David Batch at 10:13 a.m.

SECRETARY’S REPORT: Minutes of the last meeting,
Oct., 1993, in Dayton, had been mailed to each committee
member and were printed in the Newsletter. Whitt moved that
they be approved. Seconded by Sampson. Motion carried.

TREASURER’S REPORT: Parker distributed a financial
summary of GLPA activities since October 1, 1993, as follows:

INCOME
GLPA Dues 4,360.00
1992 Conference 2,703.35
Miscellaneous 99.96
Checking account interest 44.96
Newsletter advertising 216.00
TOTAL RECEIPTS 7,379.31

EXPENDITURES
Postage 8.25
GLPA pins 300.00
Newsletter 673.53
1993 Proceedings 2053.67
I.P.S. Representative travel 167.33
TIPS #16 & #17 printing 301.26
Miscellaneous 37.50
TOTAL EXPENDITURES 3,541.54

CHECKING ACCOUNT SUMMARY
Checking account balance 10/1/93 123.25
ADD total receipts plus transfer 8,637.56
TOTAL 8,760.81
SUBTRACT total expenditures -3,799.79
ACCOUNT BALANCE 4/22/94 4,961.02

SEPARATE FUND ACCOUNTS 10/1/93 4/22/94
GLPA gift shop 33.26 33.26
Printed materials 320.63 320.63
Slide, tape & software 32.18 96.53
TOTALS 393.93 450.42

SAVINGS: Credit union balance 10/1/93 13,200.57
SUBTRACT Transfer to checking -1000.00
ADD Interest received (4.625%) 293.02
BALANCE 4/22/94 12,493.59

FINANCIAL SUMMARY:
Checking account 123.25 4,961.02
Separate fund accounts 393.93 450.42
Credit union account 13,200.57 12,493.59
TOTAL GLPA ASSETS 13,717.75 17,905.03

Reports from the Gift Shop, Printed Materials and the
Slide, Tape, and Software departments were reviewed. It was
explained that Mitch Luman uses the GLPA slide duplicator to
make copies for people who order copies.

Motion to accept the financial report was made by
DeRemer and seconded by Smith. Motion passed.

PRESIDENT’S REPORT: Batch reported that he has
been trying to contact Tony Pabon who indicated he would be
willing to produce a sourcebook. The last one GLPA produced
was 1990. Tony was going to produce the sourcebook on disk
and we would reproduce in exchange for the information GLPA
collected for the last edition. Smith said he could do the
printing from camera ready copy. In the event that the effort
with Pabon stalls, Batch will contact some GLPA members who
may be able to help with production. There was consensus that
we should go ahead and produce the book.

Batch said that Jeff Hunt and he will be working on the
accreditation guidelines.

1994 CONFERENCE UPDATE REPORT: Steve Mitch
reviewed the conference; scheduled for October 26-29, 1994, in
Wheeling, WV. Eighty five rooms are blocked off at $80 per
night single, $85 per night double at the Wilson Lodge, plus 9%
sales tax. Normal rate is $98 to $125 per night. Steve reviewed
the meal arrangements and invited speakers. Registration
deadline will be September 23rd. Late registration will be open
until October 12 for an additional fee of $20. The summer
Newsletter will carry a call for paper submission and workshop
presentation. The deadline for papers and workshop proposals
will be July 15. There was some discussion regarding concur­
rent workshop and paper sessions. There will be free time
during Friday afternoon for optional activities.

Bart moved that GLPA contribute $2000 of last years’
conference excess to the 1994 conference to reduce registration
fees. Seconded by Brown. Smith mentioned during discussion
that this is a one time contribution and not something to be
carried on each year. Motion carried.

The conference mailing will be sent out during the first
two weeks of August, not only to GLPA, but also to selected
MAPS and SEPA area planetarians. Group photos will be taken
Thursday and distributed before the end of the conference.
Optional activities on Friday including golf, tennis, museums,
shops, etc. The rest of the tentative conference schedule was
reviewed. Vendors who are members can display without
charge, except for built-in costs such as electrical hookups, etc.

MEMBERSHIP & DEVELOPMENT: Eric Schreur
could not attend the meeting. There was discussion about
FELLOW and Honorary Life nominations.

Bass mentioned that a listing of Patron & Sustaining
members should be included in the Proceedings next year. It
was clarified to chair Jeff Bass that postage expenses for the
development committee has been built into the budget.

PAST-PRESIDENT’S REPORT: Smith reported that the
National Planetarium Council is in existence, approved by
GLPA, SEPA, GPPA, RMPA, and PPA. SWAP and MAPS
have not yet approved, but only four regionals voting approval are necessary. Some procedural details are currently being handled, like the state where the organization will be incorporated. At the fall GLPA meeting, more information on the formation of NPC will be reported.

There was some discussion about ways to encourage vendors to be a more active and integral part of the conference. Smith said vendors provide a service to us; when vendors succeed, it is good for members of GLPA. Most vendors liked being in the area of the break food. It was suggested that vendors be introduced and promoted by the host or the paper session monitors before the morning breaks. Benjamin suggested a five minute introduction of vendors at the beginning of the paper sessions and other parts of the program. We want to show vendors that we appreciate them being a part of the conference; however, time restraints need to be considered.

Batch suggested giving some extra consideration to the vendors at this conference, in some of the ways we’ve talked about, and see how it is received.

EDUCATION REPORT: DeRemer reported that TIPS #16 and #17 have been printed and distributed to all members. DeRemer said that the revision of TIPS #4 - "Tips for Preparing and Presenting School Programs," is ongoing. It is being revised by Marilynn Bacyinski. Information is needed on planning and delivering school programs, planning materials to use in planetarium lessons, presenting selected concepts in the planetarium, activities supplemental to planetarium lessons, special needs of portable planetariums, and a list of resources and references. Any information should be sent to Marilynn.

The 3rd grade solar system has been changed and improved. It has been reviewed and all review comments are in. The program will be tested this summer and then sent in to Bowen for production.

DeRemer has received requests to start a special effects publication. Tomlinson mentioned that we don’t want to compete with the I.P.S. special effects book. The I.P.S. book, which is becoming hard to find, is more elaborate and sophisticated than what GLPA would plan to produce.

PUBLICATIONS: Benjamin announced that all is going well with the GLPA publications. The Newsletters and Proceedings are produced on time. It was agreed that the Newsletter will print news items from vendors who are GLPA members as long as the articles are newsworthy, new products and awards. Advertising may be purchased by vendors.

INSTRUCTIONAL MATERIALS: Sampson reported many requests for TIPS booklets and curriculum guides. Some new guides, including guides for portable planetariums, and scripts have been received.

It was clarified that the sale of all publications (except the Sourcebook) is restricted to GLPA members. Some publications have been printed in limited amounts due to their limited application, and are available for the cost of duplication to members. Whitt noted that one of the reasons GLPA has so many members from other regions is because of our publications that are available to our members.

Sampson reported that GLPA continues to be a member of the Council of Associated Groups of the National Science Teachers Association.

Sampson has been working on assembling an index for the Proceedings, sorted by author, title, or topic. Each entry will also have an abstract. It is scheduled to be printed in summer and mailed in September.

I.P.S. REPRESENTATIVE: Because Dayle Brown will be working in California during the I.P.S. conference, Dale Smith will represent GLPA at I.P.S.

A proposal to exchange astronomical publications has been received from the Natural Science Museum in Brescia, Italy. Brown suggested a notice in the Newsletter for interested museums to start an exchange.

CONFERENCE PLANNING: Tomlinson distributed a list of tips and suggestions for conference attendees. Suggestions were given to Tomlinson for things to include.

There was some discussion regarding paper sessions. Jurying papers is difficult because it must be done from the abstracts. Because of the number of papers, concurrent paper sessions will be considered. It was agreed that since texts have been required for publication in the Proceedings, the quality of the presented papers has been much more professional.

Conference scholarships were discussed. This idea would allow GLPA to provide funding to some who are not able to come to the conference. It was decided that the program could be a useful and valid project, but needs further investigation and development.

Parker distributed mileage reimbursement forms to the members of the committee and the 1994 conference host.

A motion to adjourn was seconded and carried at 5:40.

Respectfully Submitted,

David E. Parker
Secretary/Treasurer
PATRON MEMBERS

The Great Lakes Planetarium Association would like to thank the following Patron Members for their generous support:

Astro-Tech Manufacturing, Inc.
550 Elm Ridge Avenue
Canal Fulton, OH 44614
Representative: Derl Wells

Bowen Music Productions
3590 North Meridian Street
Indianapolis, IN 46208
Representative: Jeff Bowen

East Coast Control Systems, Inc.
4955 Brookhaven Street
Cocoa, FL 32927
Representative: Jon Frantz

Evans and Sutherland
600 Komas Drive
Salt Lake City, UT 84108
Representative: Jeri H. Panek

Goto Optical Manufacturing Co.
4-16 Yazaki-cho
Fuchu-shi, Tokyo JAPAN 00183
Representative: Kimberly Ayres

Joe Hopkins Engineering
4301 32nd Street West C1
Bradenton, FL 34205
Representative: Joe Hopkins

Minolta Corporation
101 Williams Drive
Ramsey, NJ 07446
Representative: Hideki Hayashi

Seiler Instruments/Zeiss
2-B Houmas Place
Destrehan, LA 70047
Representative: Pearl Reilly

Mrs. Marjorie Webster (1992)
Adler Planetarium

Mr. Roderick Webster (1992)
Adler Planetarium

PAUL KAPLAN - COMPOSER

- ORIGINAL SCORES FOR PLANETARIUM SKY SHOWS AND FILMS

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Printed and mailed from:
Physics and Astronomy Department
Bowling Green State University
Bowling Green, OH 43403

FIRST CLASS MAIL
PRESIDENT'S MESSAGE
David Batch

In many ways the Autumnal Equinox is a more suitable beginning of the new year for planetarium people than either January 1 or the Vernal Equinox. An air of renewed energy and anticipation blows in each fall with the cooler temperatures. It is fitting, during this time each year, that we gather together to share our optimism for the future and experiences of the past. The 30th annual such gathering of the clan, also known as the GLPA Conference, promises to be a real treat. Host Steve Mitch and crew at the Benedum Natural Science Theater are working diligently to bring us a productive and informative event. An impressive array of speakers, workshops, planetarium shows, special events, and an ideal setting promise that the 1994 conference will be memorable. I look forward to sharing the experience with as many of you as possible.

Speaking of memorable conferences, IPS met this past July at Cocoa Beach to witness the rebirth of the Brevard Community College Planetarium. Mike Hutton’s grand experiment -- mating a conventional projector with a Digistar in an innovative theater design -- appears to be successful. The Minolta Infinium and Digistar work impressively well together. Now all the rest of us have to do is find a few million dollars to buy the "system."

To me, one of the most impressive parts of the conference (and there were many impressive parts!) was the distinct international feeling of the delegation. I found it stimulating to see that the common enthusiasm that we share for the sky and astronomy education is a worldwide phenomenon. Particularly heartwarming were the comments from the Eastern European delegates. Despite physical and political conditions that make most problems we encounter seem inconsequential, they displayed a spirit of enthusiasm that lifted us all.

To assure that these newly opened lines of communication were not severed after the conference, several regional affiliates, including GLPA, agreed to sponsor an Eastern European colleague's IPS membership for the coming year. Obtaining hard currency for membership dues is simply beyond their ability. As you might guess, they also indicated desperate need for slides and other program materials useful for shows. Alan Pareis, from the Adler Planetarium, has taken on the task of looking into ways GLPA can be helpful to these people. (Ed. See page 6 for more on this.)

I hope to see you in Wheeling, West Virginia, October 26-29. Enjoy the Autumnal Equinox and Happy New Year!

Within the past few months, two of our members have carried the "GLPA spirit" literally from pole to pole. President-Elect April Whitt from the Fernbank Science Center in Atlanta explored Antarctica early in the calendar year, and Past-President Dale Smith explored the North Pole last spring. (Do you suppose that polar exploration will become a new requirement for all GLPA presidents?) The cover photographs testify to their laudable achievements. You will undoubtedly hear more about "April and Dale's excellent adventures" at the upcoming conference in Wheeling.

Please note that the deadline for the winter issue is November 1, 1994. Send me whatever articles or news tidbits you have by that time or, if you prefer, you can deliver your newsletter contributions to me in person at the GLPA Conference in Wheeling. I look forward to seeing you there!
The Cernan Earth and Space Center of Triton College in River Grove is currently presenting its own presentation of Mysteries of Science, which investigates mysteries from a variety of sciences, including astronomy. In October, this program will be replaced by the C-360 film Genesis: The Story of Earth, which explores the science of plate tectonics. The Cernan Center is also presenting Strasenburgh Planetarium's production of Space Elves as its Saturday children's show and an all-new laser light show set to the music of a variety of contemporary rock bands.

The Illinois State University Planetarium in Normal is presenting Daughter of the Stars, a program that introduces audiences to the legends of Native Americans. This program will play through November 19th. The ISU Planetarium is pleased to announce that a new, $6,700 automation system has been installed. The system, which was designed by Planetarium Director Carl Wenning and built by East Coast Control Systems of Cocoa, Florida, will significantly improve program production and presentation. The system was purchased through a grant from the Friends of the ISU Planetarium, as well as admission fees and sales of its "Great Eclipse" booklets. In other news, Director Carl Wenning has taken on additional duties as physics teacher education coordinator for the ISU Physics Department.

The Lakeview Museum Planetarium in Peoria is currently showing Staerkel Planetarium's production of Odyssey, as well as a video-updated version of The Last Question. On Columbus Day, the Planetarium will once again conduct Girl Scout Badge Day. By the end of that day, the junior scouts in attendance will have earned their Sky Search Badge.

Dan Goins of the Martinsville Planetarium has taken on the additional responsibility of Auditorium Manager at Martinsville High School. Their planetarium is entering the video age with the installation of a computer-controlled Laser Disc player, VCR, and video projector.

The Abrams Planetarium in East Lansing is presenting a Digistar version of The Last Question and The Little Star That Could.

The Chaffee Planetarium in Grand Rapids is presently closed. The new 50-foot Digistar planetarium (host site for the 1995 GLPA Conference) is scheduled for grand opening in late November.

The Longway Planetarium in Flint is presenting Space Elves, Fall Sky Scanning, and their special Halloween program.

After a hectic summer, the McMath Planetarium in Bloomfield Hills is presenting Autumn Stars. Cranbrook's 6-inch refractor is getting a new objective lens from D&G Optical.
The Shiras Planetarium in Marquette is reporting doing quite well with their new Minolta MS-8 with Fall Stars Color the Sky, Halloween Special, and The People.

OHIO

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

No report

WISCONSIN

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

For its October public program, the University of Wisconsin-La Crosse Planetarium will present the Minneapolis Planetarium production of Moonwalk! For its November program, it will present its own production entitled The Origin and Fate of our Solar System.

Through November 17th, the Minneapolis Planetarium is running the Sudekum Planetarium's production of Sam Snork's Super Solar System Stakeout and the Hansen Planetarium's production of Cosmic Catastrophes.

BULLETIN BOARD
(continued from page 6, column 2)

NEW ADDITION TO GLPA VIDEO BANK

Answering the call for images of the May 10th annular solar eclipse, Jenny Pon of the Abrams Planetarium recently donated a videotape that contains footage of the Capital Area Astronomy Club's eclipse observing party in the graze zone and a collection of various news reports from CNN, national, and local sources.

The 10-minute long graze-zone segment includes continuous coverage of a large projected image of the sun around mid-eclipse, clearly showing Bailey's Beads. The entire videotape is about 1 hour 20 minutes long.

For more information, contact Mitch Luman, manager of the GLPA Audio-visual File (his address and phone number are on the GLPA Newsletter masthead).

PPA SPRING CONFERENCE

The Pacific Planetarium Association's Spring Conference will be held at Curry Village in Yosemite, California on March 30, 31, and April 1, 1995. The conference theme is "Half-a-Dome," referring to the half-sky dome that will be available to outdoor observers on the Friday night of the conference.

For registration information, please contact Gail Chaid; Independence Planetarium; 1776 Educational Park Drive; San Jose, CA 95133. Her telephone number is (408) 729-3911, extension 2469.
GLPA BULLETIN BOARD

compiled by Bart Benjamin

GLPA MAY ASSIST RUSSIAN PLANETARIUMS

The following bulletin board item is from Alan V. Pareis; 9421 Stagecoach Drive; Fort Wayne, Indiana 46804. He can be reached at (219) 432-8786 (nights) and (219) 424-5610 (days).

The planetariums of the former Soviet Union are dealing with change and day-to-day crises as their society makes a transition to new forms of government and economics. Those of us who attended IPS in June learned that the planetariums which have remained open are in need of items we would consider basic. I had a conversation with the Director of the Moscow Planetarium and his family and learned that good astronomical slides are in short supply and those they do have are quite deteriorated. Any used but functional carousel-type projectors would also be welcome. I have talked with Dave Batch, Mitch Lumen, and Dale Smith. We think GLPA might be able to help.

I plan to make a formal proposal at the GLPA annual conference. If you are interested in helping with your time or financial support, please let me know. This will take some time to organize, and we want to coordinate our efforts with IPS. Whatever we eventually put together must be delivered in person; any other means of delivery is extremely unreliable. So don't do anything yet -- just be thinking. For more information, contact Alan Pareis, the unofficial GLPA coordinator of this project.

DURACELL/NSTA SCHOLARSHIP COMPETITION

The National Science Teachers Association and Duracell, USA are pleased to announce the 1995 Duracell/NSTA Scholarship Competition. This competition, which is in its thirteenth year, is an excellent opportunity for students in grades 9-12 to earn money for college by designing and building battery-powered devices. The goal of this competition is to increase student interest and participation in science. The first place award is a $20,000 savings bond. Ninety-nine lesser cash awards are also given. To receive an official entry form and full details, please write to Duracell/NSTA Scholarship Competition; 1840 Wilson Boulevard; Arlington, VA 22201-3000. The deadline for entry applications is January 13, 1995.

TOYOTA/NSTA TAPESTRY GRANTS

The National Science Teachers Association and Toyota Motor Sales (TMS), USA are pleased to announce the 1995 TAPESTRY Grants Program. This program, which is in its fifth year, is an excellent opportunity for science teachers of grades 6-12 to obtain funding for innovative science projects that they want to implement in their schools and/or school districts. The goal of this program is to increase student interest and participation in science. Forty grants of up to $10,000 each will be awarded this year. To obtain the TAPESTRY Proposal Cover Form and program rules, please write to NSTA/TAPESTRY; 1840 Wilson Boulevard; Arlington, VA 22201-3000. The deadline for applications is January 26, 1995.

TOSHIBA/NSTA EXPLORAVISION AWARDS

The National Science Teachers Association and Toshiba are pleased to announce the 1995 Toshiba/NSTA ExploraVision Awards. This competition, which is in its third year, gives teachers in grades K through 12 the opportunity to offer their students the challenge of creating and exploring a vision of a currently used technology projected twenty years into the future. Each student member of the four top teams (each team consisting of three or four students under the guidance of a teacher advisor) will receive a $10,000 United States savings bond. Each student member of the eight runner-up teams will receive a $5,000 United States savings bond. The NSTA mailed entry kits to teachers in September. If you do not receive one by October 15, contact: Toshiba/NSTA ExploraVision Awards Program; 1840 Wilson Boulevard; Arlington, VA 22201. You may also call them toll-free at 1-800-EXPLOR-9. The deadline for entries is February 1, 1995.

(continued on page 5, column 2)
Conference host Steve Mitch invites all GLPA members to the 30th Annual Great Lakes Planetarium Association Conference to be held at the Oglebay Resort and Conference Center, October 26 - 29, 1994.

Details of this exciting conference can be found in the summer issue of the GLPA Newsletter and in the Preliminary Agenda and Registration Information, which was mailed to all GLPA members in mid-August. Here is a summary of just a few of the many conference highlights:

Four special guest speakers:

- **Ray Villard** -- "Hubble Space Telescope Update and its Imaging of Comet Shoemaker-Levy 9's Impact with Jupiter"
- **Dr. Darrel Hoff** -- This year's Spitz Lecture will be "The Planetarium's Role in Educational Reform"
- **Dr. William Cassidy** -- "Hunting Meteorites in the Antarctic"
- **Dr. James B. Kaler** -- "Astronomy Update 1994"

Special Workshops:

- Two Portable Planetarium Workshops
- A workshop on creating planetarium soundtracks using computer-based systems
- A workshop on the ramifications of new laws for disabled visitors and staff

Steve Mitch recently informed me of one minor correction to the Preliminary Agenda and Registration Information. Since the cost of the continental breakfast is covered by your registration fee, not by the meal package fee, you will not need a meal ticket to enjoy each morning's continental breakfast.

If you haven't already reserved a room at Oglebay's Wilson Lodge, it is probably too late to do so. Unreserved rooms were released to the public beginning on September 15th. If you need lodging for the conference, you can call the nearby Hampton Inn at (304) 233-0440. For additional lodging options, please call Conference Host Steve Mitch. Other conference deadlines are as follows:

- **September 23**  Last day for paper proposals
- **September 23**  Last day for early registrations
- **October 12**  Last day for late registrations

We hope to see all of you in Wheeling this October!

### SOLITUDE

A poem by Paul Kaplan

The night sky.
Cold ... lonely ... distant ... Countless specks too far away even to Imagine the solitude.
My solitude.
Yet the soul of the night sky Touches me directly -- one on one.
A deeply personal bond, leaving language useless to communicate our Covenant -- rather, it is a spiritual understanding -- a knowing.
Look up -- we are soul mates.

Paul is a composer for film, television, theater, and the planetarium. Ever since early childhood, Paul has gazed in awe at the night sky, and marveled at the mysteries of the heavens.
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The new ZKP3 SKYMASTER, designed for domes of 6 to 11 meters in diameter boasts a pin-point laser produced star image. For the user, that means brighter stars with superior definition. The compact control panel incorporates the latest in electronics and sophisticated computer controls.

"The ease of operating the ZKP3 makes it wonderful to use. Visiting planetarium directors have commented that it is possibly the best sky they have seen."

-Robert Pilat
Pine-Richland High School
Gibsonia, Pennsylvania
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The ZMP SPACEMASTER is a mid-size projector for domes of 12.5m to 17.5m. Improved halogen illumination presents a brighter, more realistic starry sky.

The Model MVIII UNIVERARIUM is designed for 17.5m to 25m domes. Features fiber optic illumination for optimum presentation of the universe.

If you’re replacing your star projector, or planning a new facility, give us a call. Seiler can assist you in coordinating your entire planetarium package including domes, seating arrangements, auxiliary projectors, lighting and elevators. Our trained staff is available for technical assistance and service.
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GLPA CONFERENCES:
1994 Oct. 26-29 Wheeling, WV
1995 Oct. 25-28 Grand Rapids
1996 Looking for volunteers; if you are interested, contact Gary Tomlinson.
1994 GLPA Conference
Wheeling, West Virginia
October 26 - 29, 1994

- more conference photos on pages 12 - 13
- e-mail address list on pages 10 - 11
- minutes of the meetings on pages 20 - 23
Mix together one hundred and thirteen planetarium folk, a nice assortment of papers, informative workshops, an interesting array of engaging speakers, wonderful vendor and corporate support, a congenial and well-organized host, an idyllic setting, and you have the recipe for the outstanding 30th GLPA conference at the Benedum Natural Science Theater in Wheeling, West Virginia. Steve Mitch and crew put on a dazzling three days. And they even managed to arrange two clear nights so that Wes Orloff and cohorts from the Cleveland region could demonstrate their innovative traveling observatory.

The amount of work that goes into a conference of this caliber is staggering. To see it carried off with such aplomb is impressive. We owe Steve and the staff of the Oglebay Resort and Conference Center our sincere appreciation. And to all the sponsors who allowed Steve to keep the costs down, we also owe an enormous debt of gratitude. Finally, thanks to everyone who contributed or participated in some way. It would not have been as good without you.

For those of you who, for whatever reason, could not attend the conference, don't dismay. Remember that as part of your GLPA membership benefits, you will receive a copy of the GLPA Proceedings when they are printed in January. And what better time than now not to let your membership lapse! If you did not register for the conference or have not yet sent in your dues, please take a moment to do so now. [Ed. Otherwise, this will be the last issue of the GLPA Newsletter that you'll receive.] Can you think of a better way to spend $20 for professional growth? Send your check to the membership chair, whose address appears on the back cover of this newsletter.

Regarding the membership chairmanship, Eric Schreur has ably served in that capacity for the last several years. He has brought a level of dedication and professionalism to the task that we on the executive committee have come to depend on. Unfortunately for us, Eric has his hands full at home for the next couple of years. The Kalama-zoo Public Museum is building a new facility which will include a 50-foot planetarium theater and Digistar projectors. Eric has reluctantly asked (continued on page 7)

Welcome to the season of short days and long shadows! I would like to add my voice to the chorus of appreciation for Steve Mitch and his staff at Oglebay. The 30th GLPA Conference was a rousing success! In particular, I would like to extend a warm welcome to those of you who became members of the Great Lakes Planetarium Association at the Wheeling conference. Your fellow members will do all they can to make your GLPA membership professionally beneficial and personally rewarding. If you ever have questions about your GLPA membership, please contact any of the persons listed on the back page of the newsletter.

As in prior years, the winter GLPA Newsletter is as bountiful as Santa's sleigh. An assortment of conference photos appear on pages 12 and 13; the minutes from the Executive Committee Meeting and Annual Business Meeting appear on pages 20 - 23; and a list and nomination forms for the awards of "Fellow" and "Honorary Life Member" can be found on pages 14 - 18. Because of popular demand, I have published the e-mail sign-up sheet on pages 10 - 11 that was compiled at the conference.

Please note that the deadline for the spring issue of the GLPA Newsletter is February 1, 1995. For those of you who prefer to fax your information to me, my new fax number is (708) 583-3121. Have a very Merry Christmas and a prosperous 1995!
The Illinois State Meeting will be held at the Strickler Planetarium of Olivet Nazarene University in Kankakee on Saturday, April 8, 1995. The meeting host will be Troy Stoneking.

The Cernan Earth and Space Center of Triton College in River Grove is currently presenting their holiday program Celebrations of Winter. In January, they will premiere the C-360 film Mt. Saint Helens, which describes that powerful volcanic eruption and the slow recovery of the region. The Cernan Center is also presenting its popular children's show, entitled Zip! Zoom! Whiz, and its newest laser show Fast Forward, which features the music of a variety of contemporary rock bands.

In January, the Illinois State University Planetarium in Normal premieres its program Visions of a Starry Night, which tells a number of constellation myths. Planetarium Director Carl Wenning recently received a major grant of $300,000 from the Illinois State Board of Education to be used for the enhancement of science teacher training at ISU and the improvement of science literacy in high school classrooms. Some 40 teachers will be involved in the two-year process.

The Staerkel Planetarium of Parkland College in Champaign will offer its seasonal sky show Winter Prairie Skies and the main feature Skyfire. In February, Cosmic Catastrophes will replace the latter show. The planetarium's first light show to the music of Pink Floyd's Dark Side of the Moon will run through March.

The Indiana State Meeting will be held at the P-H-M Planetarium in Mishawaka on Saturday, May 6, 1995. The meeting host will be Art Klinger.

Dayle Brown of Pegasus Productions in South Bend has begun a new leasing program whereby teachers are taught to use the Starlab equipment for one week intervals.

Dan Smith has retired after a long and successful career as director of the planetarium at Kennedy Middle School in South Bend. Best of luck to you, Dan!

The Koch Planetarium in Evansville has trained three high school students to present public planetarium shows. They are currently running the Sudekum Planetarium's production of The Light-Hearted Astronomer.

The Michigan State Meeting will be held at the Abrams Planetarium in East Lansing on Saturday, May 13, 1995. The meeting host will be Dave Batch.

The Abrams Planetarium in East Lansing is presenting a Digistar version of The Last
The Chaffee Planetarium in Grand Rapids has unveiled its new 50-foot Digistar Planetarium and is showing off its new video capabilities with *Sky Dance*, an original production.

The Longway Planetarium in Flint is presenting *Space Elves, Space Chase*, and the LFI laser show *Peter and the Wolf*.

The McMath Planetarium in Bloomfield Hills is presenting *More Than Meets the Eye* along with a free participative telescope workshop which runs in their auditorium concurrent with the planetarium show during weekends.

The Kalamazoo Planetarium will close at the end of June, 1995. Their new 50-foot facility is undergoing construction and is scheduled for opening in November of 1995. Currently, they are running *The Mars Show* and two of their own productions, *Winter Star Gazing* and *Spaceship Imagination*.

Lisa Daly at Upton Middle School is designing an astronomy class for middle school children. Lisa will take on the role of Michigan State Chairperson in the spring of 1995.

**WISCONSIN**

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

The Wisconsin-Iowa-Minnesota State Meeting will be held in Iowa -- at the University of Northern Iowa in Cedar Falls and the Grout Planetarium in Waterloo on Friday and Saturday, April 28th and 29th, 1995.

The University of Wisconsin at LaCrosse Planetarium is currently running the Bishop Planetarium production *Star of Wonder*. In February, it will present the Hansen production of *The Endless Horizon*.

The Minneapolis Planetarium is showing *Winter Wonders*, a multi-cultural program about the return of the sun. In January, they will premiere the Hayden (in Boston) Planetarium production of *WSKY: Radio Station of the Stars*.

The Madison Memorial High School Planetarium is currently showing *Loch Ness Production's More Than Meets the Eye*.

The Horwitz Planetarium in Waukesha is currently presenting the Bishop Planetarium's production *Star of Wonder* and their own production of *A Christmas Present*. In February, they will premiere the Davis Planetarium's production *Destination Universe*.

The University of Wisconsin at Stevens Point Planetarium is currently running *Season of Light* and Horwitz Planetarium's *A Christmas Present*. In February, they will present their own production of *Skyfire*.

**ATTENTION PLANETARIANS:**

If news of your planetarium is missing from this State News column, please send updated information to your state chair before February 1, 1995 for inclusion in the spring issue of the GLPA Newsletter.
GLPA BULLETIN BOARD

compiled by Bart Benjamin

REMINDER: HAS YOUR GLPA MEMBERSHIP EXPIRED?

If you have not paid your dues for the upcoming year (which were due at the October conference), then this will be the last issue of the GLPA Newsletter that you will receive. Not only that, but you will miss out on the GLPA Proceedings, new TIPS booklets, and many other exciting projects planned for 1995. To keep abreast of the planetarium profession, renew your GLPA membership today by sending your dues to Membership Chairman Eric Schreur (see back page for his address).

ELGIN PLANETARIUM IS NOW A HISTORIC PLACE

Last August, the Elgin (Illinois) Planetarium (officially known as the Elgin National Watch Company Observatory) was entered into the National Register of Historic Places.

According to Director Gary Kutina, the observatory was built in 1910 by the Elgin National Watch Company for the sole purpose of telling time from the stars. This observatory is the only observatory in the world that was owned and maintained by a watch manufacturer. It contains a transit telescope, a chronograph, a shortwave radio transmitter, and three German-made clocks known as Reiflers. From 1910 to 1958, the observatory was part of several historic events, the most noteworthy of which was the turning on of the outside lights at the 1933-34 World's Fair in Chicago.

In 1960, the watch company deeded the observatory over to School District U-46. Three years later, a 24-foot diameter planetarium was added to the facility. Approximately 14,000 students from the district will visit the planetarium and observatory this year. To celebrate this achievement, the city of Elgin will feature the observatory on its vehicle sticker in 1995. Congratulations, Gary!

MAPS SPONSORS STARLAB CONFERENCE

The Middle Atlantic Planetarium Society (MAPS) will sponsor a Starlab Conference on May 19, 1995 at Raritan Valley Community College in North Branch, New Jersey. Designed for classroom teachers who use the Starlab, the conference will focus on advanced lessons for all grade levels, hands-on workshops for classroom activities, workshops demonstrating high- and low-tech accessories for Starlab, and developing an astronomy curriculum. Experienced Starlab teachers will serve as presenters.

The cost to attend will be approximately $50, which includes lunch. An evening banquet is offered as an option. For more information, contact MAPS '95; Planetarium Dept.; Raritan Valley Community College; P.O. Box 3300; Somerville, NJ 08876. Their phone number is (908) 231-8805. Attendance is limited to the first 60 applicants.

POSITION OPENING

The Evansville Museum of Arts and Sciences is seeking a qualified Science Associate to develop and conduct educational programs and activities for school groups and other audiences in the Museum's Koch Science Center and Koch Planetarium. Responsibilities include assisting in the design, fabrication, and implementation of changing science exhibitions; producing planetarium shows; caring for the science collections; and the development and execution of workshops, classes and camp-ins. The ideal candidate should have either an education degree, a degree in a related field, or previous experience working in a school, museum, or planetarium.

Candidates for this position should submit a letter of application, a resume, and the name, address, and telephone number of three references to: Mitch Luman, Director; Koch Science Center and Planetarium; 411 S.E. Riverside Drive; Evansville, IN 47713.

1995 SPITZ SUMMER INSTITUTES

The Spitz, Inc./West Chester University Summer Institutes in Planetarium - Astronomy Education will take place on July 17-21 (Institute I) and
BULLETIN BOARD (cont.)

July 24-28 (Institute II) in Chadds Ford, Pennsylvania. The Institute consists of two independent one-week courses designed to provide participants with the necessary background to successfully operate a planetarium in an educational environment. Institute I is designed especially for improving skills in naked-eye astronomy. Institute II stresses the educational use of the planetarium as a classroom.

The cost to attend the Institutes is $290 per institute. Participants who register for both will receive a 10% discount. For full information, please write: Mona E. Coldiron; 1995 Summer Institutes; Spitz, Inc.; Post Office Box 198; Chadds Ford, PA 19317. Her telephone number is (610) 459-5200.

NSTA SEEKS NEW EXECUTIVE DIRECTOR

The National Science Teachers Association (NSTA) has launched a search for a new executive director to replace Bill G. Aldridge, who will retire in 1996. At the NSTA Headquarters in Arlington, Virginia, the new director will head a staff of more than 100 who serve the almost 50,000 members of the association.

Candidates for the position must have a strong background in science education, including teaching experience; solid skills in management, communications, and negotiation; financial planning experience; and sound leadership ability. Familiarity with the Washington, D.C. network, including both private organizations and government agencies, is desirable.

The date of appointment to the position and the salary are negotiable. The application deadline is February 1, 1995. To request an application packet, contact: Executive Director Search; NSTA; 1840 Wilson Boulevard; Arlington, VA 22201-3000. Their phone number is (703) 243-7100. The NSTA is an Equal Opportunity Employer.

ASTRONOMY/SPACE SCIENCE WRITING CONTEST

The Griffith Observatory, in the interest in stimulating the flow of information between scientists, science writers, and the public, proudly announces the offering of awards for the best articles in astronomy, astrophysics, and space science.

Awards will be made for those articles which best communicate to the average reader material of current or historical interest in astronomy, astrophysics, and space science. Awards are made on the basis of clear and interesting style, accuracy, reader interest in the subject, correct grammar and syntax, originality in presentation and content, and neatness. Articles must be a minimum of 10 pages and a maximum of 15 pages in length, typewritten double-spaced in English, and accompanied by a brief biographical sketch of the author and two finished camera-ready ink drawings, graphs, or photographs. Failure to meet the requirements on length, appearance, and illustrations may disqualify an entry from consideration. The author’s name and title of the article should appear only on a cover sheet and not on the pages of the article itself. All winning articles become the property of the Griffith Observatory and will be published in the Griffith Observer. Previously published articles will not be accepted. The decision of the judges is final.

This writing contest is sponsored by the Hughes Aircraft Company and the Friends of the Observatory. Cash awards are $650 for first prize, $300 for second prize, $200 for third prize, $150 for fourth prize, and $50 for honorable mention. Address all articles to: Awards Committee; c/o Griffith Observatory; 2800 East Observatory Road; Los Angeles, CA 90027. Their phone number is (213) 664-1181.

PRESIDENT'S MESSAGE

(continued from page 3)

to step down from the chairmanship. It is with considerable disappointment that we accept his decision. I am, however, pleased to report that Gene Zajac from the Shaker Heights planetarium in Ohio has agreed to tackle the membership duties. Anyone who has seen Gene in action will understand why I believe he will be a superb addition to the executive committee. The transition between Eric and Gene will occur about the first of the year.

Several other items of business that transpired at the executive committee meeting held before the general membership conference will be of interest to you in the months to come. I’ll report on them next quarter. Until then, let us all pay homage to the sun god so that he (or she) will begin the return trip north on schedule.
The 1994 GLPA Conference in Wheeling, West Virginia was outstanding! Steve Mitch and his staff ran a perfect operation, making even hauling a Starlab around a pleasant task. It was wonderful to share ideas with so many mobile and small-dome folks. Even the weather was spectacular. Watch for the GLPA Proceedings material on the Make-it, Take-it Workshop and the Starlab Workshop ... lots of goodies.

We're finally going to have our own TIPS booklet -- just for portable planetarium users. Sue Reynolds (213 Hulbert Street; Minoa, NY 13116-1908; phone: 315-656-2514) will collect your ideas and edit the new TIPS booklet. Thanks, Sue!

Congratulations to Joyce Kloncz, the Science Specialist at Valentine Hills Elementary School, Arden Hills, Minnesota. Joyce was presented the prestigious "Gerald Mallon Starlab Educator of the Year" Award at the 1994 IPS Conference held in Cocoa Beach, Florida this past July. The award was established to recognize and honor exceptional Starlab educators.

After attending POPS in 1989, Joyce worked extensively with teachers in 15 neighboring school districts, having developed a teacher training workshop involving 24 hours of contact time. Hundreds of teachers have been trained by Joyce, affecting the education of thousands of children in her region. As a result of Joyce's work, eight other school districts have been inspired to buy Starlabs. We are very proud of Joyce and her accomplishments!

Educators are encouraged to apply for this award. You may submit support materials or nominate someone. Contact Jane Aible Sadler (Learning Technologies, Inc.; 59 Walden Street; Cambridge, MA 02140) for further details.

Here are some tips shared at the recent PIPS Users' Group Meeting (Powerful Interactive Planetariums): usefulness of a velcro horizon in Starlab, use of a yellow filter to enhance the Starlab sun, building a tubular auxiliary light for multiple uses (star brightness/temperature or to illuminate an interpreter for deaf students), holes in Starlab may be repaired with fabric paint, auroras can be produced by shining a laser flashlight through the top of a Snapple bottle or shine a single slide projector through an old swirl Pepsi bottle (or Coke bottle with ridges) while it turns on a very slow turntable (Grangers 1 rpm motor - $45), increase the side lamp reflected light if yellow or white paper is placed beneath them and reduce reflected light by placing black velvet material beneath them.

Consider hosting your own regional PIPS gathering. For ideas on start up, contact Sue Reynolds. Learning Technologies has provided support for some expenses for these meetings.

I have recently spoken with several people interested in buying/selling used portable planetariums. If you have information that you wish to share, please let me know and I'll include it in upcoming issues of the GLPA Newsletter.

Have a safe and happy solstice!

Dayle Brown
713 Cushing Street
South Bend, IN 46616
(219) 282-1885

RUSSIAN PLANETARIUMS

Alan Pareis
Fort Wayne, Indiana

The Russian planetariums became members of IPS this summer. Those who attended IPS learned that good astronomical slides are in short supply in the planetariums of the Russian Republic, and those slides they do have are rapidly deteriorating.

The GLPA Executive Committee, at its conference in Wheeling, approved GLPA support and
GLPA ARTICLES (cont.)

seed money for a project organized by me, Alan Pareis. This project will supply a set of slides to each of the operating Russian planetariums (approximately 20 to 30 sets). The slides will be duplicated at cost from the GLPA slide bank.

Now that the project has been approved, I will be making contact with Russian planetarium representatives to ascertain specific needs. Then a small GLPA team will choose the master slides and duplication will begin. After the sets are made up, they will be delivered in person. Already there have been several contacts suggested for delivery. The project will probably take several months to complete.

The final number of slides per set has not yet been determined. This is directly related to the cost of duplication at approximately 22 cents per slide. I will also be contacting the other U.S. regions to see if they would like to help fund the project. If any GLPA members or member planetariums would like to help with funding, please contact me. At present, we have funding for about 20 sets of 60 slides. It would be great if we could increase this to 100-150 slides per set. If you have any questions, wish to provide additional funds, or wish to help in this endeavor, please contact Alan Pareis at: 9421 Stagecoach Drive; Fort Wayne, IN 46804. My phone number is (219) 432-8786 (night) and (219) 242-5610 (day).

LITHUANIAN APPEAL
FOR ASSISTANCE

Jeanne Bishop

Congratulations to Alan Pareis for spearheading a program to help Russian planetariums! I know that the Russian directors will be grateful for any items that you can direct to Alan for their use.

At the IPS meeting at Cocoa Beach, I got to know the director of the only Lithuanian planetarium, Dr. Zina Sviderskiene of Vilnius, Lithuania. As you may know, Lithuania just recently was released from occupation by Russia, and feelings by Lithuanians for Russians are not the best. I have undertaken a commitment to help Zina at her planetarium, and I wonder if you could help.

At her request, I sent a six-hour video tape, made from 50 different tapes in the teacher center at NASA Lewis in Cleveland. I thought she did not get it, but have learned that she did. She had given me careful instructions for sending items, which helps them get through without political tampering or stealing. Of course, projectors could be opened regardless of packing, so I would recommend that these not be sent. Alan's idea of having items hand-delivered to Russians is recommended for projector-type items for Zina. She has contact with people who can dub any video format to PAL and adapt any projector for her power, so this is not a problem. She has one Kodak Carousel projector.

Zina has a strong wish for these items: slides (not cartoon or non-astronomical slides -- planetarium presentations are very astronomically focused) particularly the slide sets Portraits of the Planets and Portraits of the Universe (I think sold by the Planetary Society for $24.95 each), videos of animated concepts (she can dub in Lithuanian, even if there are English labels), video films on astronomical concepts, children's astronomy books and pamphlets, and these other items, which she feels would be very useful: the book A Man on the Moon: the Voyages of the Apollo Astronauts, by Andrew Chaikin, from Novagraphics; Rand McNally's Giant Moon Map and A Solar System Chart (I think both are available from the Planetary Society or Astronomical Society of the Pacific for less than $10 each), a set of two posters, Copernicus and the Constellations, and the large mural, Portrait of the Milky Way (about $15 and $20, respectively from either the Planetary Society or ASP). Zina has painted and then photographed almost every slide she uses in her planetarium programs -- she presented some of her slides in a paper at the IPS meeting. She would love an air brush and paints.

To have the greatest chance that she gets an item you send in the mail, she recommends that you wrap whatever you're sending very well with many layers of tape (this discourages opening) and then send this to her at her home address: Dr. Zina Sviderskiene, Architektu, 41-85, Vilnius 2043, LITHUANIA.

Zina is a professor of astronomy and currently writes the only popular astronomy for Lithuania -- one newspaper article per week. To give some flavor of her situation, I quote from her most recent letter (Oct. 17): "This year we have a lot of visitors and must feel very happy, but the problems with our planetarium in Lithuania are growing . . . The rich people who rent our premises want to have all the building in their hands. The financial support from the government every month is smaller and smaller. Oh, Jeanne, how happy I would be working alone in the small planetarium as yours. To live, work, and create far from strong political and economical winds..."
blowing here in Lithuania! . . . Very sad fact that even though my colleagues in Denmark offered to pay many of expenses to NPA conference there, I have no dollars to get to Denmark. Sometimes I catch myself thinking about things too far and fantastic in my situation. The main problem is to survive as a Planetarium and Planetarium Director."

Perhaps you or your institution can help Zina with one of her special requests or with extra items that you think could be useful to her. If you do send one of her specific requests, please send me a note that you have done so (Jeanne Bishop; Westlake Schools Planetarium; 24525 Hilliard Road; Westlake, OH 44145). I will then be able to tell anyone who asks if a particular item has already been sent. I'm sure Zina will write anyone who sends her a gift once she has received it. Thanks for helping.

E-MAIL ADDRESS LIST
compiled by Bart Benjamin

Here is the e-mail sign up sheet that was passed around one day during the GLPA Conference in Wheeling, arranged in alphabetical order. A few additional names have been added to the original list. I apologize for any mistakes; some people's handwriting is easier to read than others. Please contact me if you wish to make any corrections or additions to the list. Special thanks to Bob Gardner and Dale Smith for their valuable assistance.

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### GLPA ARTICLES (cont.)

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<thead>
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<th>Name</th>
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<td>Young, Warren</td>
<td><a href="mailto:amphys02@ysub.ysu.edu">amphys02@ysub.ysu.edu</a></td>
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### MAILING LIST NOTICE

Occasionally, GLPA releases its membership list to interested companies and parties. If you do not wish your name and address released, please notify GLPA's Secretary/Treasurer David Parker.
The 1994 GLPA Conference in Wheeling, West Virginia offered those in attendance an assortment of papers, guest speakers, workshops, tributes, natural beauty, wildlife, "alien life," model trains, and the opportunity to share all these wonderful benefits with friends and colleagues.
To assist you in the nomination of candidates for GLPA Honorary Life Member and GLPA Fellow, I have compiled the list of past recipients, courtesy of GLPA Membership Chairman Eric Schreur. Nomination forms are reprinted on pages 15 - 18.

**GLPA HONORARY LIFE MEMBERS**

J. Robert Andress  
Dorothy Angeloff  
Robert S. Gardner  
Jon A. Marshall  
Kenneth Perkins  
Martha Schaefer  
Howard Schriever  
Newton G. Sprague  
Duane D. Stanley  
Don Tuttle

**GLPA FELLOWS**

Robert H. Allen  
Marilynn Bacyinski  
Dr. D. David Batch  
Garry F. Beckstrom  
Bart S. Benjamin  
Dr. Jeanne E. Bishop  
Steve Bishop  
Gail E. Bouslog  
Dennis V. Brinkman  
Dayle L. Brown  
Larry A. Ciupik  
David L. DeBruyn  
David A. DeRemer  
Joseph M. DeRocher  
Robert C. Elliott  
Robert J. Ernst  
Doris J. Forror  
Dan Francetic  
Robert J. Gardner  
Michael A. Gardner  
Daniel R. Goins  
Arthur F. Goss  
Donald S. Hall  
John G. Harmon  
K. Douglas Holt  
Joseph M. Hopkins

Jeffrey L. Hunt  
Eugene A. Jenneman  
Arthur M. Klinger  
Gary Kutina  
David Linton  
Mitchell D. Luman  
Jerry B. Mansfield  
Jon A. Marshall  
Dr. Walter E. Mitchell, Jr.  
Georgia C. Neff  
Weston F. Orloff  
David E. Parker  
Kenneth Perkins  
Mark Perkins  
James T. Pike  
Gary E. Sampson  
Sheldon Schafer  
James A. Seevers  
Dr. Lee T. Shapiro  
Dr. Dale W. Smith  
Daniel D. Smith  
Richard J. Speir  
Rod Thompson  
Gary E. Tomlinson  
Robert C. Victor  
Carl J. Wenning  
John G. Wharton  
April S. Whitt  
Gregg L. Williams  
Barbara A. Williams  
Dr. Warren M. Young

**HAPPY HOLIDAYS!**

from the GLPA Newsletter staff
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:

Gene Zajac
Shaker Heights Sr. H.S. Planetarium
15911 Aldersyde Drive
Shaker Heights, OH 44120
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, 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: ______________________________________
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:  Gene Zajac
                             GLPA Membership Chairman
                             Shaker Heights Sr. H.S. Planetarium
                             15911 Aldersyde Drive
                             Shaker Heights, OH 44120
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: ___________________________________________
The Starmaster
Model ZMP

Small in dimension, versatile in performance.
Featuring the latest innovations in Carl Zeiss Jena technology—
A fiber optic system for the fixed star projection, portable control panel and a 2 in 1 startball design that integrates into existing tilted or horizontal dome sizes of 33 to 59 feet.
A special version will be available for domes diameters of 59 to 75 feet.

Call your Seiler Instrument representative for details.

Zeiss introduces its newest star, the Starmaster. Small in dimension, but versatile in performance, the Starmaster features the latest in Carl Zeiss Jena technology.

For over 70 years Zeiss has been a trusted leader in the planetarium industry. More than 500 planetariums all over the world testify to the quality, durability and performance of Zeiss planetaria for simulation, education and entertainment.

If you are interested in planning a new facility, or replacing your star projector, give us a call. Seiler can assist you in coordinating your entire Zeiss planetarium package from dome size to seating arrangements, auxiliary projectors, computer software and lighting.

Explore the possibilities.
You never know what you might discover.

Discover
A
New
Star

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170 E. Kirkham Ave., St. Louis, MO 63119
New Orleans Sales Office
1-800-726-8805
FAX: 504-764-7665
EXECUTIVE COMMITTEE MEETING
Wheeling, West Virginia, October 26, 1994

PRESENT: David Batch, Pres.; April Whitt, Pres.-Elect; Dale Smith, Past-Pres.; David Parker, Sec./Treas.; Jeff Bass, Develop. Chair; Bart Benjamin, Publ. Chair; Dayle Brown, I.P.S. Rep.; David DeRemer, Edu. Chair; Gary Sampson, Instr. Mat. Chair; Eric Schreur, Memb. Chair; Steve Mitch, 1994 Conf. Host. The meeting was called to order by President Batch at 11:11 a.m.

SECRETARY'S REPORT: The minutes of the last meeting were printed in the summer Newsletter and were approved.

TREASURER'S REPORT: Parker distributed the financial summary of GLPA activities from October 1, 1993, to September 30, 1994, as follows:

| RECEIPTS: GLPA Dues | 4,440.00 |
| GLPA Gift Shop | 2,961.60 |
| Checking account interest | 55.00 |
| Newsletter advertising | 216.00 |
| TOTAL RECEIPTS | 7,779.33 |

| EXPENSES: Newsletter expenses | 930.29 |
| 1993 Proceedings | 2,053.67 |
| TIPS #16 & #17 printing | 301.26 |
| Executive Committee & IPS travel | 1,410.41 |
| Liability insurance | 436.00 |
| GLPA pins | 300.00 |
| Miscellaneous | 445.70 |
| TOTAL EXPENDITURES | 5,877.33 |

Checking acct. balance 10/1/93 | 123.25 |
ADD total receipts | 7,779.33 |
ADD transfer from savings acct | 1,000.00 |
TOTAL | 8,970.58 |
SUBTRACT total expenditures | 5,877.33 |
ACCOUNT BALANCE 9/30/94 | 3,093.25 |

| GLPA DEPARTMENTS | 10/1/93 | 9/30/94 |
| GLPA gift shop | 33.26 | 33.26 |
| Printed materials | 328.49 | 271.51 |
| Slide, tape & software | 32.18 | 87.00 |
| TOTALS | 393.93 | 391.77 |

| SAVINGS: Balance 10/1/93 | 13,200.57 |
| SUBTRACT Transfer to checking | - 1000.00 |
| ADD Interest received (4.375%) | 560.65 |
| BALANCE 9/30/94 | 12,761.22 |

SUMMARY | 10/1/93 | 9/30/94 |
| Checking account | 123.25 | 3,025.25 |
| Separate fund accounts | 393.93 | 391.77 |
| Credit union account | 13,200.57 | 12,761.22 |
| TOTAL GLPA ASSETS | 13,717.75 | 16,178.24 |

Bart moved the report be approved. Seconded and carried.

PRESIDENT'S REPORT: Batch reported IPS is doing the sourcebook. The understanding is for GLPA to distribute the publication to its membership.

PAST-PRESIDENT'S REPORT: Smith has written a GLPA President's statement supporting collegiate planetarians who are up for promotion or tenure. The statement supports planetarium productions as creative work. A copy will be passed along to Batch for use if anyone needs it.

PRESENT: David Batch, Pres.; April Whitt, Pres.-Elect; Dale Smith, Past-Pres.; David Parker, Sec./Treas.; Jeff Bass, Develop. Chair; Bart Benjamin, Publ. Chair; Dayle Brown, I.P.S. Rep.; David DeRemer, Edu. Chair; Gary Sampson, Instr. Mat. Chair; Eric Schreur, Memb. Chair; Steve Mitch, 1994 Conf. Host. The meeting was called to order by President Batch at 11:11 a.m.

SECRETARY'S REPORT: The minutes of the last meeting were printed in the summer Newsletter and were approved.

TREASURER'S REPORT: Parker distributed the financial summary of GLPA activities from October 1, 1993, to September 30, 1994, as follows:

| RECEIPTS: GLPA Dues | 4,440.00 |
| GLPA Gift Shop | 2,961.60 |
| Checking account interest | 55.00 |
| Newsletter advertising | 216.00 |
| TOTAL RECEIPTS | 7,779.33 |

| EXPENSES: Newsletter expenses | 930.29 |
| 1993 Proceedings | 2,053.67 |
| TIPS #16 & #17 printing | 301.26 |
| Executive Committee & IPS travel | 1,410.41 |
| Liability insurance | 436.00 |
| GLPA pins | 300.00 |
| Miscellaneous | 445.70 |
| TOTAL EXPENDITURES | 5,877.33 |

Checking acct. balance 10/1/93 | 123.25 |
ADD total receipts | 7,779.33 |
ADD transfer from savings acct | 1,000.00 |
TOTAL | 8,970.58 |
SUBTRACT total expenditures | 5,877.33 |
ACCOUNT BALANCE 9/30/94 | 3,093.25 |

| GLPA DEPARTMENTS | 10/1/93 | 9/30/94 |
| GLPA gift shop | 33.26 | 33.26 |
| Printed materials | 328.49 | 271.51 |
| Slide, tape & software | 32.18 | 87.00 |
| TOTALS | 393.93 | 391.77 |

| SAVINGS: Balance 10/1/93 | 13,200.57 |
| SUBTRACT Transfer to checking | - 1000.00 |
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The NPC meeting included reps from all seven regions. The NPC would not be into show production early on, nor would an Executive Director be appointed right away. Some of the first goals are to facilitate receipt of grant information, improve interregional communication, improve e-mail access, affiliate with other organizations, respond to current media issues, create standard demographic survey, produce radio or TV PSA's, buying power for products, and set up standing rules.

They will work on a logo design and find a state in which to incorporate. The NPC could be involved in educational initiative from AAS and ASP. Currently, all regionals are members except SWAP, but the president will be involved in the process.

The chair for NPC for this next year will be April Whitten of GPPA. The NPC is becoming increasingly important since the American regions in IPS are now in the minority—7 out of 17. The new IPS president, Jim Manning, has been assured there is no competition between IPS and NPC.

1994 CONFERENCE UPDATE REPORT: Steve Mitch reported on the daily agenda of conference activities. Mitch has arranged for free admissions to numerous park locations.

MEMBERSHIP: Due to Schreur's new planetarium, there is still a need for a new membership chair.

Schreur distributed copies of the 230 GLPA members for the 1993-94 year.

DEVELOPMENT: Jeff Bass reported he will be working with Mitch for recognition of sponsors and vendors who contributed to the conference.

Mitch said a high percentage of the companies he called agreed to help the conference. Patron and sustaining members will be printed in the Proceedings.

EDUCATION REPORT: DeRemer has completed the script for the third grade program designed for smaller planetariums. The program would only require simple slide projector and a tape player. DeRemer has been working with Bowen to get music, sound effects and possibly narration for the program. The master would be on a digital audio tape. We also need an illustrator to do the characters for the program. Bass will check with the artist that he uses at Cranbrook. Smith mentioned the idea of computer art. Smith and Whitt will talk to artists they know. Proposals will be discussed the spring meeting. It was the consensus that GLPA do the duplicating if not too big a job.

Brown moved we offer $3000 for Bowen's library music, narration, and mixing. Seconded by Sampson. Motion carried.

Marillyn Bacyinski is still working on revising TIPS #2, Preparing and Presenting School Programs. DeRemer said work on a simple special effects booklet will be put on hold until these other projects are completed.

PUBLICATIONS: Benjami reported he is still accepting advertising for the Newsletter.

The procedure for printing the Proceedings is very efficient. Invited talks are transcribed, papers are scanned, and encouragement will be given for paper presenters to prepare a computer disk file or send the file by e-mail. Benjamin said the addition of the two recent TIPS booklets, TIPS #16, Tips on keeping Your Planetarium Open, and TIPS #17, Great Teaching Tips for the Planetarium, and the Proceedings Index continues to set GLPA apart from other planetarium regionals.

INSTRUCTIONAL MATERIALS: Sampson reported the Proceedings Index has been completed and sent to every 1993-94 member. The cost was $750 to print and $100 to mail.
TIPS #10, How to Help the Handicapped in the Planetarium, originally done in 1983, should also be revised due to the changes that have taken place in disabled awareness in the last decade. Benjamin also commented that much of the recently published material addresses physical problems, providing access, allowing easier movement, while GLPA will want to also address the educational opportunities and learning problems that may arise for the disabled in the planetarium.

PRESIDENT-ELECT REPORT: April Whitt reported on the GLPA nominations process. Offices to be filled by election at the 1995 conference are Pres.-Elect, Sec/Treas and IPS Rep.

IPS REPRESENTATIVE: Smith attended the Council meeting this summer in Brown’s place and reported the 1996 IPS conference will be in Osaka, Japan. The Council meeting and pre-conference tours will begin on July 12, 1996. The post-conference tours will conclude on July 21. The conference will be held July 15, through July 18. Registration fee will be about $200. Hotel rates will be about $90 double. Air fare will be about $1200 from New York or Los Angeles. Pre and post conference tours are available for about $300-$800.

For the 1998 conference, nominees were London, Paris, and Pittsburgh. London was chosen. The dates will be in July, Registration about $250. Hotel rates around $65-80 for a double room. It will be a six day conference including trips to several places, including Stonehenge, as part of the conference. A post-conference tour will be in Ireland for 4-5 days for about $650.

Three new regions, the Germans, Russians, and Ukrainians, were admitted. GLPA, SWAP, RMPA and EMPA will sponsor IPS members from Russia and the Ukraine so their regions could be established.

A worldwide sourcebook will be done by IPS. Undine Concannon at London, England, the 1998 IPS conference host, is the chair of publications and coordinating this project. We are contributing the GLPA Sourcebook for reference.

The slate of officers for IPS has been announced and the ballot has been distributed to members. Dr. Dale W. Smith is on the ballot for President-Elect. Ballot return deadline is Dec. 31. Brown noted that a new IPS Directory is being assembled by Keith Johnson, IPS treasurer.

BUDGET: Parker distributed copies of the proposed budget figures as submitted by the Executive Committee or based on figures from last year. Many items were discussed, many line items were adjusted and several changes were made.

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<th>INCOME</th>
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| Instructional Materials | 325 |
| Conference Planning    | 50  |
| Office supplies         | 70  |
| Liability Insurance     | 450 |
| State Meetings          | 250 |
| Total                   | 820 |

| Membership          |          |
| Brochures, Postage  | 150      |
| Mobile Users Group  | 25       |
| Postage             | 100      |
| Development         |          |
| Postage and Supplies| 100      |
| GLPA Postage        | 50       |
| Supplies            | 100      |
| Executive Committee Travel | 1200   |
| President’s Expenses| 150      |
| I.P.S. Travel       | 300      |
| Support for NPC     | 500      |
| Annual Report       | 10       |
| Total               | 2310     |

APPROVED EXPENDITURES: 13230

Bass moved the budget be adopted. Seconded by Smith. Motion carried.

CONFERENCE PLANNING: Committee chair Gary Tomlinson, unable to attend the conference, sent a report which President Batch reviewed with the Executive Committee. Scholarships for conference attendance will be surveyed in the questionnaire and will be discussed at the spring meeting. Suggestions were made for the GLPA 1996 conference site. Any one with suggestions or invitations should contact Tomlinson.

There was discussion about having the conference at a non-planetarium site and having astronomy activities, side trips and production or astronomy educational workshops. Portable planetariums might be able to provide a basis for some conference activities at a non-planetarium site.

It was decided that at this point GLPA will not take an active role in recruiting IPS Fellow nominations.

NEW BUSINESS: There was some discussion about a suggestion from Alan Pareis to send slide packages to Russia and the Eastern European block of countries. They have no access to slides, which must be hand delivered because of their black market value. DeRemer suggested 20 sets of 50 slides or 1000 total slides. Smith volunteered to copy up to about 1000 slides and charge his cost, approximately 25¢ per slide. Schreur suggested a committee actually look at the images that are available and find out what is needed. The cost of this project could be covered under publications.

Brown moved we support this project up to $250. Seconded by Bass. Motion carried.

The spring Executive Committee meeting will be in Grand Rapids, April 22, 1995.

A motion to adjourn was seconded and carried at 5:06.

Respectfully Submitted, David E. Parker, Sec./Treas.
The annual business meeting of the Great Lakes Planetarium Association was called to order by President David Batch.

**SECRETARY’S REPORT:** David Parker printed minutes of the last meeting, held in Dayton, Oct. 23, 1993, in the Winter Newsletter. Being no corrections or questions, there was a motion and second for approval. Motion carried.


*(Please see the Executive Committee meeting minutes for the financial report.)*

It was moved and seconded to approved the treasurer’s report. The motion was approved.

**NEW BUSINESS:** Batch mentioned some of the needs the planetarians from the former Soviet block have. Alan Pareis, who has been asked to take a lead on determining how GLPA can help, mentioned discussions he had with Oleg Sizuchin, Director of the Moscow Planetarium. They are in desperate need of slides. Pareis discussed ways GLPA could get together slide sets from their slide bank. There are currently about 25 operating planetarium in Russia. One problem is that slides sets we would make must be delivered in person due to the black market. Pareis will contact other planetarium regionals to see if they can help with the project. Alan will contact Oleg to get a description of slides they need. Anyone with suggestions or ideas should contact Alan V. Pareis, 9421 Stagecoach Drive, Fort Wayne, IN 46804.

Jon Marshall asked about sending different sets to different locations. Alan mentioned that would cause some logistics problems. Michael Gardner mentioned Flint has a sister city program and a GM exchange program with engineers which might provide a courier base for delivery. Jeanne Bishop said planetariums are quite separate and it is difficult for them to share. Gloria Rall mentioned a consulting firm in Houston which could help. She said our assistance need not be restricted to the Soviet block.

Alan said projectors slide are primitive and very outdated, but are in the 2 X 2 format. Power and parts would be a problem if we delivered a new projector. It was mentioned that other areas have needs, also. Marshall said we need to let other people know what we are doing.

Batch said the project will be further discussed at the spring Executive Committee meeting. Pareis will be gathering information for this project and all information should be filtered through him.

Jeanne Bishop mentioned Lithuania also has need for old books, children’s books, posters, etc. Small packages sometimes get through.

**NATIONAL PLANETARIUM COUNCIL:** Dale Smith reported on the NPC meeting. All U.S. regionals are members except SWAP. The NPC met at Cocoa during the IPS Conference. Among those attending were Steve Mitch - MAPS, Bob Tate - SEAP, April Whitten - GPPA, Dale Smith - GLPA. They discussed the structure the NPC should take. The NPC would allow the seven American regionals to work on concerns strictly related to the United States. Some short and some long term goals were discussed. The NPC will be working on internal matters such as council rules and becoming incorporated. April Whitten of GPPA was elected chair. External activities will come more slowly. Steve Mitch will undertake a demographic survey and facilities survey.

NPC is not an attempt to compete with IPS, but rather an attempt to help American regionals address American needs and problems, and work with other national organizations. Dale asked anyone with suggestions to contact him at Bowling Green.

**INTERNATIONAL PLANETARIUM SOCIETY:** Dayle Brown, doing a POPs planetarium workshop in California, asked Smith to attend the IPS Council meeting in June in her stead. He reported the 1996 conference will be in Osaka, Japan, July 15-18. The pre-conference and post conference tours will cost about $300 and $800 respectively. The conference registration fee will be about $200. Airfare will be as low as $1200. Hotels will be about $90 double/day. Smith mentioned there are about 300 planetariums in Japan.

The 1998 conference will be in London in July. Paris and Pittsburgh had also extended invitations. Registration will be about $200 and hotel about $80 double/day. Visits to Stonehenge and Greenwich may be planned. Some other tours will be planned. Undine Concannon, London, will be the host.

Three new regionals were admitted to IPS from Germany, Russia and the Ukraine. Due to problems planetarians from those regions have in coming up with hard cash to pay for IPS membership fees, it has been difficult for them to qualify, as a regional, for IPS membership. Consequently, the GLPA, RMPA, SWAP, and EMPA (European-Mediterranean Planetarium Association) regionals agreed to sponsored IPS members from those regionals.

IPS is in the process of creating an international planetarium sourcebook, based on the GLPA versions produced by Gregg Williams. The project will be chaired by Undine Concannon, London.

Nominations for IPS President-Elect are Jon Bell, Florida; Thomas Kraupe, Germany; Dale Smith, Ohio. Ballots have been distributed and are to be returned by Dec. 31, 1994.

**MEMBERSHIP:** Eric Schreur reported there were 230 GLPA members for 1993-94 from 38 states and 5 foreign countries. Listings of patron and sustaining members will be distributed with the *Proceedings* after the first of the year. Eric asked that nominations for GLPA FELLOW awards be sent to him. These nominations will be considered during the spring Executive Committee meeting at Grand Rapids. A complete report of membership information and statistics will be included in the *Proceedings*.

Due to Eric Schreur’s new planetarium building project, he will be leaving the post of membership chair. Batch announced the new membership chair will be Gene Zajac.
**PUBLICATIONS:** Bart reported he is encouraged to see so such a good attendance at the conference and new members participating. The Great Lakes Planetarium Association publications are extremely important for those who can’t attend the conference. The *Proceedings* are a compilation of conference presentations and talks. They are produced and distributed each year after the conference and mailed out in January from Bowling Green State University. This will be the 11th annual issue. An index of the first ten years has been printed and mailed to all members during the last fiscal year. *Newsletters* are sent quarterly to all members. Contributions from members sent to state chairs are forwarded to Benjamin, the newsletter editor. This publication is a valuable publication to all because it contains news, postings, and announcements from the members. Portable planetarium news should be sent to Dayle L. Brown, Pegasus Productions, 713 Cushing, South Bend, IN 46616.

The state chairs are Indiana-Alan Parels; Illinois-Bart Benjamin; Michigan-Jeff Bass; Ohio-Dale Smith; Wisconsin-Bob Allen. GLPA also publishes TIPS booklets through the Education Committee, David DeRemer, chair. Benjamin mentioned our publications have become much admired by many planetarians and other regionals and have helped define us as a leader in the planetarium field.

**EDUCATION:** David DeRemer asked members to send plans for simple special effects to him. He will start collecting resources for a publication in that area. A major chore of the education department is to look at needs of GLPA. TIPS #6, *Planning for a Planetarium Education Program,* will be updated by Jeff Hunt, but the predicted date of completion is uncertain.

Marilynn Bacyinski is working on updating TIPS #4, *Preparing and Presenting School Programs.*

DeRemer has been working on an idea to produce a planetarium program for small planetariums and portables. It is a simple solar system program using one carousel projector and one tape recorder. Larger facilities could add more special effects, visuals and enhancements as they are able. The final script is done on a third to fourth grade level. When the program is completed, GLPA will duplicate and give it to members at cost - about $40-$50 for the slides, tape, and script. Jeff Bowen of Bowen Music Productions, will be producing and mixing the music, narration, and sound effects. A DAT master will be used to make show tapes. Also, high quality visuals will be produced as part of the package. Artists and cartoonists will be contacted. The goal is to have the show ready to show at the 30 anniversary celebrations in Grand Rapids next year.

**INSTRUCTIONAL MATERIALS:** Gary Sampson reported on the two aspects of his committee, printed materials and audio/visual-computer. In last year two TIPS booklets, TIPS #16, *Tips on keeping Your Planetarium Open,* and TIPS #17, *Great Teaching Tips for the Planetarium,* have been published. An index of all previous *Proceedings* has been printed and mailed. The goal of the committee is to carry out the good ideas being generated and get the slide bank index on HyperCard. It is very large and hard to search through. A TIPS booklet on Portable Planetariums will be considered. Rick Pirko and David Hurd will be redoing the TIPS #10, *How to Help the Handicapped in the Planetarium,* originally done in 1983. GLPA is the only organization in world to attempt to put this kind of publication together. A new script, “Unworldly Weather,” has been donated to the script bank. There is a need for revised curriculum guides.

**DEVELOPMENT:** Jeff Bass reported the organization wants to locate supplemental funding for projects from interested companies. Patron members and sustaining members form an important base of support for our conference and for our projects.

**CONFERENCE PLANNING:** President Batch read a letter from David DeBruyn regarding the 1995 conference, which will be held in Grand Rapids. The new Chaffee Planetarium will be opening Nov. 19, 1994, with a Digistar projector under a 50’ dome with 145 seats. The 30 anniversary celebration of GLPA will take place during the conference, Oct 25-28, 1995. Grand Rapids is the birthplace of GLPA, hosting the first conference in 1965. The Days Inn across the street from the museum will be the conference hotel. Downtown Grand Rapids is near and very convenient. Those interested in presenting a workshop during the conference should contact Gary Tomlinson at Grand Rapids.

**STATE MEETINGS:** State meeting for the spring of 1995 were announced. Indiana - April 29 or May 6 in Mishawaka; Illinois - April 1 or 8; Ohio - April 8 in Sandusky; Wisconsin-Iowa-Minnesota - April 29 or April 8 at University of Northern Iowa - Cedar Falls; Michigan - May 13 or May 20 at East Lansing. State hosts were reminded that $50 is available from GLPA to help defray expenses for state meetings. Contact the treasurer for reimbursement.

**OTHER BUSINESS:** Michael Gardner mentioned that the National Science Teachers Association will refund $2 to GLPA for any of our members attending their conference. GLPA is an affiliate of NSTA.

Gregg Williams expressed appreciation to Steve Mitch for hosting a wonderful conference. All agreed with a standing ovation.

A motion for adjournment was seconded and carried.

Respectfully Submitted,

David E. Parker, Secretary/Treasurer
PATRON MEMBERS

The Great Lakes Planetarium Association would like to thank the following Patron Members for their generous support:

Astro-Tech Manufacturing, Inc.
550 Elm Ridge Avenue
Canal Fulton, OH 44614
Representative: Derl Wells

Audio Visual Imagineering
10801 Cosmonaut Boulevard
Orlando, FL 33824
Representative: Joanne McCullough

Bowen Music Productions
3590 North Meridian Street
Indianapolis, IN 46208
Representative: Jeff Bowen

East Coast Control Systems, Inc.
4955 Brookhaven Street
Cocoa, FL 32927
Representative: Jon Frantz

Evans and Sutherland
600 Komas Drive
Salt Lake City, UT 84108
Representative: Jeri Panek

Goto Optical Manufacturing Co.
4-16 Yazaki-cho
Fuchu-shi, Tokyo JAPAN 00183
Representative: Kimberly Ayres

Laser Fantasy International
c/o Mark Lutz
1408 Southwest Hume Street
Portland, OR 97219
Representative: Mark Lutz

Minolta Corporation
101 Williams Drive
Ramsey, NJ 07446
Representative: Kosuke Sasaki

Pangolin Laser Software
10114 Lavender Flower Court
Manassas, VA 22110
Representative: Patrick Murphy

Seiler Instrument and Manufacturing Co.
170 East Kirkham Avenue
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Representative: Pearl Reilly

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Wheeling, WV 26003

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Jeffery Bass, Development Chairman
Robert McMath Planetarium
Cranbrook Institute of Science
1221 N. Woodward Avenue
P.O. Box 801
Bloomfield Hills, MI 48303
(810) 645-3235
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