Please turn to pages 4 and 5 for specific meeting dates and locations.
PRESIDENT'S MESSAGE
David Batch

The Proceedings of our fall conference in West Virginia arrived in my mailbox in early February, as it must have in yours. I tore open the envelope, did a quick flip through the pages, and tossed it on the shelf, alongside of the other ten volumes. I paused, pulled it down from the shelf and took a closer look. As I examined the articles more closely, I was reminded of what a marvelous publication it is. First, it lets folks who could not attend the conference benefit from the collegial sharing that is the hallmark of GLPA. But even for those who did attend, we receive an excellent compilation of the papers and invited talks. I particularly appreciate the transcriptions of the guest papers -- partly because I once transcribed a talk and know how much work is involved, but primarily because I invariably hear the speakers say things I wish I had written down. The Proceedings take the notes for me.

This gem of a publication doesn't happen without a number of pieces in place. First, I guess you would have to credit all of us, the members of GLPA and our sponsors, for believing in the organization, paying dues, and making financial contributions. Then there are the participants, the colleagues willing to share, who go to the effort of preparing a talk and the additional pains to produce a camera-ready paper and diagrams. The conference host and staff then arrange a method of collecting the papers and recording the invited speakers (and strong-arming when necessary). All of this material must find its way to the editor in a timely fashion. The editor, Dale Smith, and staff then mount the absolutely heroic effort of compiling, transcribing, printing, and mailing. And like magic, it appears in our mailboxes. Hard to believe, when you think about it carefully, that all the pieces come together with such a professional result, particularly since the labor is all volunteer.

Place the GLPA Proceedings where you can find it easily. Take it down and refer to it from time to time (a job made considerably easier thanks to the index produced by Gary Sampson -- another outstanding volunteer effort). While you are contemplating the work involved, remember to do your part. Continue paying dues, supporting the sponsors and GLPA. Also, think about what you have to share with your colleagues and consider presenting a paper at this fall's conference in Grand Rapids. Be ready when the call for papers goes out later this year. The organization will be stronger if you participate.

Speaking of the conference in Grand Rapids, the folks at the Chaffee Planetarium survived their grand opening in grand style and are working hard to plan what promises to be a conference you won't want to miss. The Executive Committee will be travelling to Grand Rapids on April 22 for their spring meeting. If you have business you'd like to see the committee take up, be sure to contact one of us soon.

Happy Spring!

During the past few years, the GLPA Newsletter has gradually grown in size. What used to be contained in twelve pages now often requires twenty or more pages. To balance the goals of maximizing the number of articles, meeting minutes and notices that appears in the newsletter while minimizing the postal costs to the organization, there are usually three long issues and one short issue of the GLPA Newsletter each calendar year. The spring issue of the GLPA Newsletter is traditionally the short issue.

In lieu of this, a couple of articles that I recently received will be saved for the summer issue. If you are one of these authors, I hope you'll understand.

In the interest of brevity, I'll conclude my remarks with a reminder that the deadline for the summer issue of the GLPA Newsletter is Monday, May 1, 1995. Don't forget to attend your state meeting! Have a wonderful spring!
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 Venus and Mars as its earth and sky show, Dinosaurs in Space as its children's show, and High Voltage Dreams (featuring the music of Led Zeppelin) as its current laser light show. On April 2nd, the Cerman Center will welcome former shuttle astronaut Bruce McCandless as guest speaker for its member's "Big Event."

The Illinois State University Planetarium in Normal is currently showing Visions of a Starry Night, which examines the constellations and their associated star stories. Al Ringler, an ISU physics major, joined the planetarium staff late last fall. On March 23rd, ISU will host a conference for nearly 2,000 young ladies interested in science and math careers.

The Staerkel Planetarium of Parkland College in Champaign is currently showing Cosmic Catastrophes and Spring Prairie Skies as their feature shows, Space Bus and The Cowboy Astronomer as their children's shows, and their laser light show Louder Space.

The Indiana State Meeting will be held at the PHM Planetarium and Space Museum in Mishawaka and later at the Kennedy Planetarium in South Bend on Saturday, May 6, 1995. The meeting host will be Art Klinger.

Congratulations to Art Klinger on the birth of his son, Jacob Joseph!

Welcome to Peggy Gebhart, new GLPA member from Muncie. Peggy has just become director of the Muncie Community Schools Planetarium, located at Muncie High School. She is currently in the process of bringing her facility back into operation.

Dan Goins is now a monthly guest lecturer at the Space Quest Planetarium in Indianapolis. His monthly presentations feature a live sky show (the only one that planetarium offers) and an explanation of basic astronomical concepts.

Dayle Brown from Pegasus Productions and Olive Township Elementary School is taking her Young Astronauts to Space Camp in Huntsville this spring. Dayle will also be making a presentation at the Star Lab Workshop at the MAPS meeting in Trenton, New Jersey in May.

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.

Lisa Daly from the Upton Middle School Planetarium in St. Joseph has assumed the duties of Michigan State Chairperson, replacing Jeff Bass, who stepped down to devote more attention to his role as GLPA Development Chairman. Thank to both Jeff and Lisa!

Eric Schreur in Kalamazoo reports that the outer shell is up on the new planetarium facility.
and that the dome is currently in storage at Spitz awaiting installation. At their current facility, they are presenting Joe Hopkins' production of *Bear Tales and Other Grizzly Stories* as their family feature and *Life Beyond the Stars* as their spring public show.

The McMath Planetarium in Bloomfield Hills is presenting the Loch Ness production of *More Than Meets the Eye.*

The Longway Planetarium in Flint is presenting Fred Penner's production of *In My Backyard* as their children's show, with a concert and book signing by Fred Penner planned for the premiere. *Laser Space Chase* is their current feature program.

The Abrams Planetarium in East Lansing is presenting *Bear Tales and Other Grizzly Stories* as their children's show, as well as Isaac Asimov's *The Last Question.*

The new Chaffee Planetarium in Grand Rapids has welcomed over 40,000 visitors in two months! Their newest public show is *Cosmic Perceptions,* which replaces *Sky Dance.*

**OHIO**

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

The Ohio State Meeting will be held at the Sidney Frohman Planetarium in Sandusky on Saturday, April 8, 1995. The meeting host will be Dick Speir.

Mary Schindewolf is the new planetarian at Lourdes College in Sylvania during the spring semester. Winter programs have included *Galaxies, Magellan: Report from Venus,* and *The Endless Horizon.* Mary is also a senior at Bowling Green State University.

The winter/spring public show at Bowling Green is *To Shine Almost Forever: The Incredible Lives of Stars.* This original production includes music composed by BGSU graduate student Ann Lathan and tells the story of star life and how to see it in the winter sky.

Toledo's Ritter Planetarium asked *Is Anybody Out There?* from January through March. Their production examined the possibility of extraterrestrial life.

Native American Skies sparkled in the Cincinnati Planetarium this winter along with the continuing run of *Laser Fantasy.* Planetarium director John Schrroer also hosted a meeting of Cincinnati-Dayton area planetarians in late February.

The Cleveland Regional Association of Planetariums (CRAP) has also continued to meet regularly, with a January meeting at Garfield Heights hosted by Bob Sledz and a February meeting at Mentor hosted by Rod Thompson.

**WISCONSIN**

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

The Wisconsin State Meeting will be 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 meeting hosts will be Tom Hockey and Aaron Spurr.

The University of Wisconsin at LaCrosse Planetarium is currently running the Strasenburgh Planetarium production of *The Last Question.* In April, they will run their own production of *Cosmology.*

The University of Wisconsin at Stevens Point Planetarium is currently running the Hansen Planetarium production of *Galaxies,* along with their weekly night sky shows and laser light shows.

The Horwitz Planetarium in Waukesha is currently presenting the Davis Planetarium's production *Destination Universe* and the Hansen Planetarium production *The Endless Horizon.*

The Minneapolis Planetarium is currently showing *Starship Earth* and the Hayden (in Boston) Planetarium's production of *WSKY: Radio Station of the Stars.*

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

compiled by Bart Benjamin

EXECUTIVE COMMITTEE MEETING

The annual spring meeting of the GLPA Executive Committee will be conducted on Saturday, April 22, 1995 at the Public Museum of Grand Rapids in Grand Rapids, Michigan. All Executive Committee members are expected to attend. Other planetarians are welcome to attend all or part of the meeting as well. For more information, please call Gary Tomlinson at (616) 456-3532.

ASTRONOMY DAY UPDATE

This year's Astronomy Day is May 6, 1995. The new address for Astronomy Day information is: Gary Tomlinson; Astronomy Day Headquarters; Public Museum of Grand Rapids; 272 Pearl NW; Grand Rapids, Michigan 49504. His phone number is (616) 456-3532. Handbooks to help groups hosting Astronomy Day events are still available from the address above for $2 in U.S. funds ($3 outside the U.S.). Checks should be made to the Astronomical League. Entry forms for the Sky and Telescope Astronomy Day Award are available from this same address by sending a stamped, self-addressed envelope. The entry deadline is June 13, 1995.

1995-96 V.M. SLIPHER GRANT

During 1995-96, the V.M. Slipher Committee of the National Academy of Sciences will have approximately $4,500 to award for projects that enhance the public's understanding of astronomy. Preferences will be given to projects that require seed money for programs that will continue beyond the funding period and/or provide programs or services to more than a single group. Individual awards are generally for amounts less than $1,000.

The criteria of the award are as follows: 1) the objectives and procedures to be followed in the project should be outlined in concise terms; 2) the budget page should identify how funds will be spent and should note any other funds allocated to this project, both direct and in-kind; 3) proposals should be short -- no longer than three typewritten pages. An original and four copies of the proposal must be submitted to be considered for funding; and 4) applications must be postmarked by May 22, 1995. Notification of grants will be made around July 31st.

Please send applications to: Dennis Schatz, Chairman; V.M. Slipher Committee; Pacific Science Center; 200 Second Avenue North; Seattle, Washington 98109.

BECOME AN AAS TEACHER RESOURCE AGENT

The American Astronomical Society, with support from the National Science Foundation, is sponsoring a four week summer institute to prepare teachers to become AAS Teacher Resource Agents. As agents, teachers are expected to become leaders in astronomy education within their local geographic area. Teachers with a strong interest in astronomy and leadership characteristics are urged to apply. For more information, please contact Dr. Mary Kay Hemenway; AAS Education Officer; American Astronomical Society; The University of Texas; Astronomy Department; Austin, Texas 78712-1083. Her phone number is (512) 471-1309.

ESTES SPONSORS "TEACHER OF THE YEAR" COMPETITION

If you or someone you know is a teacher that uses Estes Model Rockets to creatively motivate their students in science and math, you should consider nominating yourself or another for the Estes Model Rocketry "Teacher of the Year" award. The winner will spend a week at Space Camp in Huntsville, Alabama. To nominate a teacher, simply send their name, address, work and home phone numbers along with detailed information on how they used Estes rocketry in their classroom during the current academic year to: Teacher of the Year Contest; Estes Industries; 1295 H Street; Penrose, Colorado 81240. For more information, call Estes at (800) 820-0202.

NEW PLANETARIUM SHOWS

Here is some information about several new planetarium shows that are being offered for sale to planetariums:
Loch Ness Productions has produced a new show called *Hubble Vision*, which documents some of the recent discoveries made by the Hubble Space Telescope. For more information, please write: Loch Ness Productions; P.O. Box 3023; Boulder, Colorado 80307. Their phone number is (303) 455-0611.

The Buhl Planetarium in Pittsburgh, in concert with the Space Telescope Science Institute, is producing a show entitled *Through the Eyes of Hubble*, which describes the wonders of the universe seen through the Hubble Space Telescope. For more information, please call either Rob Landis (STScI) at (410) 338-4560 or Martin Ratcliff (Buhl) at (412) 237-3399.

Bowen Productions has produced a new planetarium show entitled *MoonWitch*, which is designed for grades 2 to 5. This show examines the nature of the moon and its changing appearance in the sky and would be particularly good during the Halloween season. For more information, please write: Bowen Productions; 3590 North Meridian Street; Indianapolis, Indiana 46208. Their phone number is (317) 923-3838.

Castle Lane Productions' latest CD entitled *Streams of Consciousness* is available for sale to planetariums wishing to incorporate the music into their own show productions. For more information, please write: Castle Lane Productions; 103 Seventh Avenue; Hawthorne, New Jersey 07506. Their phone number is (201) 238-1042.

**THE LITTLE BLACK CLOUD:**

**DAVE HOFFMAN**

by Gary Tomlinson

Chaffee Planetarium, Grand Rapids, Michigan

(This article also appears in *The Planetarian*, journal of the International Planetarium Society)

On April 12, 1994, that little black cloud that always followed David Hoffman around finally caught up with him. On that day, Dave succumbed to complications of pneumonia.

Dave for many years directed the Reiser Planetarium at the Godwin Heights High School system in a suburb of Grand Rapids, Michigan. He basically came with the instrument from Viewlex and stayed until budget cutbacks in 1981 forced him to seek employment elsewhere. For a while he directed the Carr-Fles Planetarium at Muskegon Community College (also in Michigan). At this same time, changes were taking place in his personal life. He left Muskegon because, as he told it, "I have been drafted." He spent the next few years working with the Salvation Army in Wisconsin. Upon retiring from "The Army," Dave returned to Grand Rapids for his last few years.

Dave was a short, bald-headed character from New York who always had a smile, a joke and a short story to share. By the time he would say, "to make a long story short," it was already too late. And he sure could tell some good stories -- stories about himself, stories about the early days of the profession and lots of stories about Viewlex. At the 1978 Great Lakes Planetarium Association (GLPA) convention in Bloomfield Hills, Michigan, Dave got up in front of the whole delegation and told the following story:

"At the Reiser Planetarium, the students were doing a show about dreams. We wanted to show the effect of going to bed and then the passage of time, so we made up this double bed military style (very tight and smooth). We carefully placed a camera in the middle of the bed and took a picture every 30 degrees. Then to show the passage of time we crumbled up the bed coverings and took another set of photos. We took the photographs and placed them into our panorama system and when we finished, we had the best looking bed pan you ever saw." (Of course, when Dave told the story, it was much longer.)

So at this same GLPA convention, a group of us led by Eugene Jenneman went out and purchased a bed pan. We wrapped it up in a box with nice wrapping paper and in front of the entire delegation, Jenneman called Hoffman up for a special presentation. Of course everyone except Dave knew what was in the box. When Dave was presented with the wrapped box, he very humbly said, "I am deeply moved." That statement put the entire delegation on the floor laughing. Dave couldn't understand what was so funny. When he opened the box, he quipped, "I am very, very deeply moved." No one could beat Hoffman.

He also told the story about his Superintendent, who was also bald. As he explained it, when they put their heads together, they would make an ass out of themselves.

Dave was a Fellow of the International Planetarium Society and served as the Executive Editor of IPS's journal, *The Planetarian*, from spring of 1978 until spring of 1981. He also served GLPA in many capacities.

Yes, Dave will be sorely missed. He helped launch a lot of planetarium careers. So when a little black cloud comes into your life, think of Dave Hoffman.
Call for Workshops  
Fall 1995 Conference  
Grand Rapids Michigan

The crew in Grand Rapids is working hard to plan an exciting, worthwhile conference. In an effort to get registration materials out early Summer, they need to work out details for workshops now. So if you are interested in presenting a workshop, fill out the Workshop Submission Form and get it to Dave DeBruyn or Gary Tomlinson by June 1, 1995. Their address is:

Chaffee Planetarium  
272 Pearl NW  
Grand Rapids MI 49504  
616-456-3977

GUIDELINES FOR WORKSHOP PRESENTERS

1. Set the fee to cover all costs. The fee will be collected with conference registration. Submit your bills to the conference host either before the conference begins or at the conference itself.

2. The workshop presenter is expected to bring consumable items to the convention unless special arrangements have been made with the Conference Host(s).

3. The workshop presenter(s) must be member(s) for the year of the conference (October 1995-Sept. 1996) to present workshops and must pay conference registration fees.

4. The workshop presenter is expected to provide all handouts and supplies.

5. Plan your workshop prior to the conference

6. Introduce yourself at the beginning of the Workshop

7. Provide time for questions.

8. End the workshop on time.

9. You will be notified of the acceptance of your workshop in July.
This form must be submitted by June 1, 1995

Workshops involve the delegates by actually making something either physical or conceptual and run for 45 minutes or 1 1/2 hours. A separate registration fee may be charged to cover costs.

Name: ____________________________________________________________

Institution: _________________________________________________________

City: ______________________ State: ___ Zip: _________________________

Telephone: (___) __________________ FAX: (___) _______________________

Proposed Workshop Title: ____________________________________________

Description for Publication (attach a detailed outline listing topics and objectives):

________________________________________________________________________

Location Needed: ___ Planetarium ___ Meeting Room ___ Other _____________

Physical constraints (Be specific, i.e. we need an empty 20 by 20 foot by 20 foot high room with a flat floor or we need 4 by 8 foot tables for every 3 people who register plus chairs):

________________________________________________________________________

________________________________________________________________________

Equipment Needed: (i.e. Scissors for every registrant, soldering irons, overhead, etc. Be specific including the number needed):

________________________________________________________________________

________________________________________________________________________

Time Required (check one): ___ 45 minutes ___ 1 1/2 hours

Workshop Limit ___ people. Are you willing to repeat the workshop ___ yes ___ no

Cost per participant: $_____

Special Time Constraints (i.e. I can't do it on Saturday or I need afternoons): ____________________________
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Explore the possibilities.

The Universarium
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The largest of all Zeiss planetariums, the Universarium projects over 9000 stars with the color and brilliance found in a natural sky. A new fiber optic system and unique 2 in 1 starball design combine easily with multi-media effects. Available in models for tiled and horizontal dome sizes of 57 to over 98 feet, the Universarium offers superb presentation quality, the latest Zeiss technological advancements and limitless possibilities.

Call your Seiler Instrument representative for details.
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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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Representative: Jeff Bowen

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Wheeling, WV 26003

WHY NOT ADVERTISE IN THE GLPA NEWSLETTER?

By advertising in the GLPA Newsletter, you'll reach the decision makers from large and small planetariums throughout the world. Don't miss this unique opportunity!

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

Bart Benjamin, GLPA Newsletter Editor
Ceman Earth and Space Center
Triton College
2000 Fifth Avenue
River Grove, IL 60171
(708) 456-0300, ext. 3408

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
THE GREAT LAKES PLANETARIUM ASSOCIATION offers membership opportunities to all individuals in any way connected with the operation of planetariums regardless of geographic location. G.L.P.A. is an affiliate of the International Planetarium Society and the National Science Teachers Association. Membership dues are $20 annually, payable at the time of the Autumnal Equinox. General correspondence and requests for membership should be addressed to: Mr. David E. Parker, Secretary/Treasurer (address below). This quarterly G.L.P.A. Newsletter is received by all members in good standing. Ideas and opinions expressed in the G.L.P.A. Newsletter are not necessarily those of G.L.P.A., its membership or the editor. Deadlines for contributions fall on the 1st of February, May, August, and November. Send information to: Bart Benjamin, Editor (address below). Copyright 1995.

Printed and mailed from:

Physics and Astronomy Department
Bowling Green State University
Bowling Green, OH 43403
PRESIDENT'S MESSAGE

David Batch

The GLPA Executive Committee spent a long, but productive, day in Grand Rapids recently, hammering out the business of the association for the next six months. I'll hit some of the high points here; you'll read the details elsewhere in this newsletter and subsequent newsletters in the months to come.

David Parker reports that GLPA is financially strong, thanks to a large membership, several conferences turning a profit, and the benevolence of our patron and sustaining members and sponsors. For those of you who remember the financial situation a few years back, this is welcome news indeed.

April Whitt and the nominations committee members Rick Pirko, Dave Hurd, Jerry Mansfield, and Dan Goins have been pulling together an outstanding and diverse slate of officers for the fall elections. Look for biographical info on each of the candidates in the fall GLPA Newsletter.

Dale Smith, as our representative to the National Planetarium Council board, reports the NPC has crossed an important initial hurdle -- it has passed a set of standing rules. Most of the regionals have affiliated with NPC.

Gene Zajac is ably settling into his seat as membership chair. He reports GLPA currently has 237 members. That likely makes us the largest regional. Dayle Brown reports that the International Planetarium Society has a record 716 members, primarily due to a highly successful Cocoa Beach conference. If you haven't heard the results of the elections, they are as follows: Thomas Kraupe, Munich, President-Elect; Lee Ann Hennig, Alexandria, Virginia, Executive Secretary; Keith Johnson continues as Treasurer.

Publications continue to flourish under chair Bart Benjamin, as you are aware from the quantity and quality of publications your membership fee delivers to you.

David DeRemer reports that the third grade solar system program sponsored by GLPA is in the final stages of production. Look for it to make an appearance at the fall conference.

Members continue to find the slide and script banks a valuable benefit of membership, as indicated by the number of orders received. Gary Sampson is working on ways to make access smoother. He also reports two TIPS booklets are in the works.

Jeffery Bass, as Development Chair, is implementing a systematic solicitation procedure for potential sponsors, donors, and sustaining memberships. His efforts will greatly aid conference hosts and allow GLPA to consider large special projects, such as the third grade program.

(continued on page 5)

Wow! After touring the new Public Museum of Grand Rapids and its exciting new Chaffee Planetarium, there is no doubt in my mind that the 1995 conference will be one of the most exciting ever! The planetarium is eye-grabbing and houses some of the newest and most exciting audio and video systems in the planetarium world today. The museum and its location on the river (with the conference hotel next door!) will provide an ideal setting for GLPA to celebrate its 30th anniversary. Begin planning now to attend!

Please take a few minutes to read the minutes of the spring Executive Committee Meeting that appear on pages 10 and 11. My thanks to David Parker for his consistent excellence in recording, transcribing and preparing the minutes for all of our members to read.

Please remember that the deadline for the autumn issue of the GLPA Newsletter is August 1, 1995. Here's wishing all of you a wonderful summer!
### Illinois

**Chairman:** Bart Benjamin  
**Cernan Earth and Space Center**  
**Triton College**  
2000 Fifth Avenue  
River Grove, IL 60171  
(708) 456-0300, ext. 3408

The Cernan Earth and Space Center of Triton College in River Grove is currently showing Hansen Planetarium's production of *Galaxies*, the children's show *Our Place in Space*, its *Monthly Skywatch* and its Led Zeppelin laser light show, *High Voltage Dreams*. The Cernan Center recently received a $2,838 grant from the Triton College Student Association for the acquisition of production materials for the 1995-96 school year.

The Illinois State University Planetarium in Normal is currently showing *Starlit Nights*, a program that takes viewers on a tour of summer night sky, and the popular children's show *Teddy's Quest*. The planetarium is sponsoring a series of star parties this summer at a community park with assistance from the Twin City Amateur Astronomers.

The Lakeview Museum Planetarium in Peoria is currently running *Orion Rendezvous, A Star Trek Voyage of Discovery*. Girl Scout Badge Day at the Planetarium saw over 100 Junior Scouts earning their Sky Search badge after a day of activities. On July 16th and 17th, Lakeview Museum, the Peoria Wheel'n, the Peoria Astronomical Society and other groups will sponsor a bicycle ride through the Community Solar System scale model. Rides of varying lengths will be offered from those of a few kilometers to a full century (100 miles) ride. (See BULLETIN BOARD for additional details). The Planetarium also played host to the Discovery Channel cameras as they filmed an episode of *Understanding, entitled Understanding the Universe*.

The William M. Staerkel Planetarium of Parkland College in Champaign will begin Thursday matinees on June 15th that run through August 10th. This supplements the usual Friday and Saturday night programming. The planetarium is currently presenting *The Cowboy Astronomer, Cosmic Catastrophes, and Prairie Skies* in addition to the light show, *Louder Space! Reach for the Stars*, a family workshop dealing with backyard astronomy, will return for six Tuesday nights beginning July 11th.

### Indiana

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

No report

### Michigan

**Chairman:** Lisa Daly  
Upton Middle School Plm  
800 Maiden Lane  
St. Joseph, MI 49085  
(616) 982-4631

The Longway Planetarium in Flint reports that the Fred Penner show entitled *In My Backyard* continues for summer, and their appearance by Penner was a great success in kicking off the show. *Star Stealers* is their summer feature, and laser shows will start in June on Friday and Saturday nights.

The Chaffee Planetarium in Grand Rapids, host institution for the 1995 GLPA conference, will be running Cosmic Perceptions through Labor Day. Laser light shows start on July 4th. In the first four months of operation, the new facility has seen greater attendance than the annual visitation at their old home!

The Hurst Planetarium in Jackson reports additions to their regular school curriculum under the stars, so that now all 3rd through 6th graders will be attending programs on the sun and planets. Mark Reed has been able to make updates in
STATE NEWS (cont.)

According to Dawn Kirkbride, Curator of Education at the Kingman Museum of Natural History in Battle Creek, there has been no official planetarium director for their Gardner Planetarium for four years. She handles the planetarium duties with the help of an intern. Their summer shows include The Little Star That Could, Monsters in the Sky, and Our Place in Space.

Lisa Daly from the Planetarium at Upton Middle School in St. Joseph recently had her 8th grade astronomy class accepted into her school’s curriculum changes for next year, and she is excited about spending a semester under the stars with some interested students.

The McMath Planetarium in Bloomfield Hills will be running their original program The Sun, the Stars and the Spider to complement the Smithsonian’s exhibit Spiders! which will be at the Cranbrook Institute of Science this summer.

Toledo’s Ritter Planetarium ran Fire and Ice in April, their program about the formation of the sun and terrestrial and Jovian planets.

Bowling Green ran its annual May Days programs for the kids, including Bear Tales, The Little Star That Could, and live programs on the sun and moon. BGSU also featured performance events including a string quartet concert, a poetry and fiction reading and a lecture on the Galapagos Islands.

WISCONSIN

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

The Wisconsin-Iowa-Minnesota spring meeting in Cedar Falls, Iowa was cancelled due to a low number of registrants.

The University of Wisconsin at LaCrosse will again sponsor week long courses in the Young Scholars program. There will be two sections of Astronomy I and one section of Astronomy II during the week of July 10th.

Dave DeRemer of Waukesha will again teach a course in the University of Wisconsin at Milwaukee’s "College for Kids" summer program.

The Minneapolis Planetarium is currently showing its productions of Starship Earth and Dinosaur Detectives through the end of the summer.

PRESIDENT’S MESSAGE
(continued from page 3)

Gary Tomlinson, as Conference Planning Chair, is in for a double dose of work this year -- Grand Rapids is hosting the conference, too. But I can’t think of a person better able to handle the duel task than Gary. With Dave DeBruyn, Mark Perkins, and Gary running the show, and a state of the art facility, you will want to do everything you can to attend.

I am pleased to announce that the Executive Committee chose the Minneapolis Planetarium as host institution for our 1996 conference. Rod Nerdahl, Bob Bonadurer and staff are enthusiastic about GLPA making a third visit to their Spitz Model C facility. Mark you calendars for October 23-26, 1996. And enjoy the summer.
# GLPA BULLETIN BOARD

## compiled by Bart Benjamin

### CONGRATULATIONS, JEANNE!

Jeanne Bishop from the Westlake Schools Planetarium in Westlake, Ohio was recently awarded the Thomas J. Brennan Award for exceptional achievement related to the teaching of astronomy at the high school level by the Board of Directors of the Astronomical Society of the Pacific. Congratulations, Jeanne!

### CYCLISTS WANTED FOR INTERPLANETARY BICYCLE RIDE

Would you or someone you know enjoy participating in a one-of-a-kind bicycle ride? A bicycle ride that will take you to other planets in our solar system? If so, then you won’t want to miss the Interplanetary Bicycle Ride sponsored by Lakeview Museum of Arts and Sciences and several other organizations in Peoria, Illinois. If you recall seeing Sheldon Schafer describe the world’s largest solar system model at recent GLPA conferences, then here is your chance to not only see it, but pedal it as well.

This special bicycle ride is scheduled to take place on July 15 and 16, 1995, and will include separate rides of 10, 14, 25, 27, 45, 90, or 100 miles in length. The individual registration fee is $15 (for early registration) or $35 for a family fee. For more information, please send a stamped, self-addressed envelope to: Interplanetary Bicycle Ride; Lakeview Museum of Arts and Sciences; 1125 West Lake Avenue; Peoria, IL 61614-5985.

### STAR PROJECTOR FOR SALE

For sale: A GOTO M-1 planetarium projector and control console to the highest bidder ($1,000 minimum bid). Purchaser responsible for dismantling, crating, transportation and all other charges. Must be removed by December 31, 1995. Deadline for written bids is September 30, 1995. For more information, please contact: Dave DeBruyn; Public Museum of Grand Rapids; 272 Pearl NW; Grand Rapids, MI 49504. His phone number is (616) 456-3977.

### NEW ASTRONOMY VIDEO AVAILABLE

Viewers can see the stars in a new light through the eyes of a mother-daughter team of amateur astronomers in *Astronomy 101, A Beginner’s Guide to the Night Sky*. This 25-minute live-action video, filmed in part at Chicago’s Adler Planetarium, follows a young girl and her mother as they explore the night sky and learn all about starting the lifetime hobby of stargazing. The video is recommended for ages 7 - 12 and retails for $19.95.

The video was produced by Mazon Productions in Northbrook, Illinois, which last year produced the award-winning video, *I Dig Fossils*. For more information or to order copies, please call (800) 332-4344.

### LOOKING FOR A NASA PHOTO?

If you need a slide, transparency, print or negative made from a NASA photograph, and you already know the NASA photo number, you may obtain pricing information from Bara-King Photographic, Inc.; 4805 Frolich Lane; Hyattville, Maryland 20781. Their fax number is (301) 341-9208.

For 35 mm slides in plastic mounts, the cost is generally $4 for the first slide and $2.50 for additional copies of the same photo number. Once you are ready to order, Bara-King accepts money orders, purchase orders, company checks, Visa, and MasterCard, but no personal checks.

For assistance in identifying NASA photo numbers, write or visit NASA; Room 6035; 400 Maryland Avenue SW; Washington, DC 20546.

### Using Ellison Machine Figures

(continued from page 14)

You would like to add any of these figures to your own planetarium, look for an Ellison machine at elementary school libraries, the school curriculum resource center, or public library.
RESULTS OF THE 1994 CONFERENCE QUESTIONNAIRE

Fifty conference questionnaires were returned and one of the most surprising comments ever recorded regarding a GLPA conference was submitted, not once, but three times: TOO MUCH FREE TIME! Wow! I would have never thought that would happen. Well the 1995 conference is still striving to build in some free time and taking your other comments to heart as well.

We are working on getting more planetarium shows to see, more vendors and having non sugar, non fat foods for breakfast. Regarding the use of surplus GLPA funds, most people wanted more Tips booklets or a reduction in registration fees. Scholarships to attend the GLPA conference for poor deserving members was not highly rated. Delegates suggested using corporate donations to reduce meal costs (as many people are not reimbursed for meals but are for registration). The 1995 conference will do just that. We are not, as one delegate suggested, getting McDonalds to cater. There is, however, a Burger King within one block of the 1995 convention site.

In addition, it was suggested that conference receipts not be broken up into registration and a meal package-to just list the total for both as registration so those lucky enough to get reimbursement can get the meals covered. GLPA will do that upon written request submitted with your conference registration.

Many of your other suggestions are already in GLPA's Conference Guidelines, so your comments are important and they are listened to. It is our goal to make GLPA and its conferences the best run in the world, so keep those cards and letters coming. And at the next convention, be sure to fill out the questionnaires.

One final question involved the vendors. The delegation was split on how to deal with this very important issue. GLPA has wrestled with this for years. To find out how we resolved this, see the accompanying article on "Exhibitors at GLPA Conventions." There have been some changes in GLPA policy as a result of input from all our members (including the vendors).
31st. Annual Great Lakes Planetarium Association (GLPA) Conference
Held in conjunction with the Michigan Museum Association (MMA) Conference*

October 25-28, 1995
Grand Rapids MI

Return to the birthplace of GLPA (1965)

Held in the brand new 35 million dollar Van Andel Museum complex & Chaffee Planetarium

HIGHLIGHTS

°Expanded Astronomy Update Lecture
  Learn the latest news in astronomy and what's happened in the past year

°Planetarium shows
  Premiere of the GLPA produced Solar System show for small domes
  Laser Light shows
  Other commercial shows for purchase
  Current Chaffee sky shows

°Special 30th Anniversary Activities

°Garage sale of planetarium effects
  Bring your unwanted, labeled and priced items to sell (and your money)

°Spouse, Family and optional activities
  Tour the Veen Observatory
  Visit the Grand Haven Jr. HS Planetarium and harbor front
  Tour the Gerald R. Ford Museum
  Listen to the Grand Rapids Symphony Orchestra
  Visit the John Ball Zoo
  Visit the brand new Meijer Botanical Gardens

°Spitz Lecturer
  Robert C. Elliott, Director
  Phillips Planetarium
  University of Wisconsin

°Workshops
  Inexpensive special effects
  Using Starlab and other small domes

°Vendor exhibits
  1300 sq. ft. of display space

°Museum tours
  Guided introduction of the 4 major exhibit areas

°Carousel rides
  Ride the museum's antique 1928 Spillman Carousel

°Organ recital
  Hear an authentic 1928 Wurlitzer theater organ
If you are not a member of GLPA and desire a registration packet and more information, send your name and address to:

1995 GLPA Conference
Chaffee Planetarium
272 Pearl NW
Grand Rapids MI 49504

Registration forms will be mailed by mid-August. Registration deadline is October 13, 1995.

*Registrants of the GLPA conference may attend MMA sessions without charge

**CONFERENCE PREMIERE**

Also planned for this year's GLPA Conference in Grand Rapids is the premiere showing of *A Solar System Adventure*, which will be made available to GLPA members shortly thereafter for the cost of duplication only.

This 25-minute planetarium program, which was produced by GLPA, is a participatory program that leads 3rd grade students on a tour of the planets. Don't miss seeing this at the conference!
**EXECUTIVE COMMITTEE MEETING**

Grand Rapids, Michigan, April 22, 1995


**SECRETARY’S REPORT:** Tomlinson moved that the minutes of the last Executive Committee meeting, held in October in Wheeling, be approved. Seconded by Brown and carried.

**TREASURER’S REPORT:** Parker distributed a financial summary of GLPA activities from October 1, 1994, to April 21, 1995, as follows:

<table>
<thead>
<tr>
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<tr>
<td>GLPA Dues</td>
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<td>GLPA Gift Shop</td>
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<tr>
<td>NSTA Rebate (members to NSTA)</td>
<td>6.00</td>
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<tr>
<td>Publications (*94 Proceedings)</td>
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<td>TOTAL RECEIPTS</td>
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<tr>
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<td>Officer’s Handbook</td>
<td>498.00</td>
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<td>Third Grade Program (partial)</td>
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<td>State Meeting</td>
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<tr>
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**Checking Summary**

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<tr>
<td>TOTAL (balance + receipts)</td>
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<tr>
<td>SUBTRACT total expenditures</td>
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**Separate Accounts**

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<td>TOTALS</td>
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**Savings**

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**Financial Summary**

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<tr>
<td>TOTAL ASSETS</td>
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A motion to approve the Treasurer’s Report was made by Brown and seconded. Motion carried.

**PRESIDENT-ELECT:** Whitt reported the nomination committee will be prepared to present a slate of candidates for GLPA President-Elect, IPS Representative, and, Sec/Treas. in the autumn Newsletter. Write-ins will be accepted and absentee ballots can be requested from the Membership Chair.

**PAST PRESIDENT:** Smith reported that historian supervision falls under his duties. In attempting to update the historical aspects of the conferences, he suggested some record keeping changes.

**National Planetarium Council** - Smith reported that over 90% of the U.S. planetariums are represented by the five regions in the council. Smith organized and coordinated the adoption of the standing rules for NPC. Steve Mitch is starting a demographics survey of planetariums for the NPC. The NPC is also in the process of incorporating, probably in the state of Georgia, and agreeing on a logo. Election of Chair, Secretary, and Treasurer, will take place soon.

Smith reported a need for more cooperation between astronomy research and planetarians. The NPC could have a better authority for promoting greater cooperation. Opportunities this year include the American Astronomical Society meeting in Pittsburgh in June with a 1/2 day topical session on planetariums and teaching astronomy. Smith will be asking to speak as a representative of NPC. Connections with Division of Planetary Sciences, should open some opportunities there. The Astronomical Society of the Pacific is sponsoring a national astronomy education symposium in Baltimore. Ideas were expressed on ways to help research astronomers understand the kinds of quality work planetarians do in presenting astronomy to the public. Smith said researchers have a need to disseminate their information, pictures, results, etc., to the public and planetariums can help.

Tomlinson, Bass, Benjamin and Sampson suggested other organizations, such as the American Physical Society, AAPT and NASA, which all have astronomy divisions or committees on education and may be approached. Batch mentioned that there is a growing awareness of the need to get research information out to teachers and schools. Whitt suggested looking for ways planetarians can provide a service by filtering inquiries presented to researchers.

**INTERNATIONAL PLANETARIUM SOCIETY:** Brown reported I.P.S. is currently working on a new Directory. The next Council meeting will be in San Diego in October.

**MEMBERSHIP:** New Membership Committee Chair, Gene Zajac distributed a list of 237 members from 33 states and 2 foreign countries. Ohio leads with 35 members and Michigan has 34. He is doing a survey regarding membership consistency. It was clarified that mailing of the conference registration materials goes to all GLPA members, all planetariums in the GLPA area, and additional selected surrounding geographical area planetariums. Tomlinson mentioned GLPA is attempting to design conference registration formats which will coordinate with the membership database. Parker and Eric Schreur have worked on getting the templates ready for the 1995 conference.

There was discussion regarding FELLOW of GLPA and Honorary Life Membership qualifications and nominees.
The membership brochure was reviewed and it will be reprinted with some modifications.

**PUBLICATIONS:** Benjamin reported ads continue to be printed in the *Newsletter*. He proposed keeping current ad rates the same. Benjamin reported sustaining members for this year will be recognized in the next *Newsletter*. The *Newsletter* editor will continue with his tradition of interviewing the GLPA President and printing that interview in the *Newsletter*.

The Winter 1995 issue *Newsletter* will include two free full color pages. Garry Beckstrom, the State Meeting Coordinator, will be added to the *Newsletter* masthead.

Smith reported some procedural refinements which will assist in the distribution of the *Proceedings*. The Fall *Newsletter* will contain a membership form and reminder for those unable to attend the conference to send in membership renewal in order to receive the *Proceedings*. It was clarified that members who send in dues late should not expect to receive all the publications that have been sent out during the year. Anyone sending in dues in the summer will have their membership extended through the next year.

**CONFERENCE PLANNING:** 1995 Conference - David DeBruyn and Gary Tomlinson presented information about the 1995 conference. The committee reviewed the conference agenda. The Days Inn motel across the street from the museum will be the conference hotel. State meetings will be on Saturday morning at local restaurants. There was discussion about possible speakers for the conference.

1996 Conference - An official letter of invitation was read from the Executive Director of the Friends of the Minneapolis Public Library proposing a 1996 GLPA Conference to be held there, Oct. 23-26. The last GLPA Conference in Minneapolis was in 1979. Brown moved to accept the invitation. Seconded by Benjamin. Motion approved.

**Conference Evaluations:** Tomlinson listed and compiled concerns expressed on the conference evaluations and the committee suggested possible solutions to address as many of those concerns as possible.

**Vendor Policy:** Tomlinson opened discussion of the GLPA vendor policy. It now is written that a exhibitor must be a member. A vendor may submit a ten minute non-commercial paper, as any member can. To set up and staff a display area, a $50 fee is required; this fee is waived for patron and sustaining members. This $50 fee does not cover table cost, electrical connection fees, etc., charged by the exhibit facility. All members selling items and attending conferences may give a free three minutes commercial announcement. If vendors, other sellers, or members want more time to give a show or other long commercial message, then a $150 fee or equitable compensation is charged. Planetariums wanting to sell shows they have produced will be charged the same fee as vendors.

A motion was made by Bass to raise sustaining membership dues to $75, as recommended by the Conference Planning Committee. Seconded by Whitt. Motion carried.

**EDUCATION:** DeRemer reported the third grade program, “Solar System Adventure Tour,” will run about 25 minutes and should be completed by Bowen during June. It will be geared toward the smaller planetarium but can easily be adapted by the larger facility.

Several conference asked for special effects workshops. DeRemer will be submitting a proposal for a workshop on special effects. Others may also be interested in giving a special effects construction workshop. Many conference attendees want more hands on workshops. DeRemer will consider a special effects TIPS booklet after the “Solar System Adventure Tour” program has been completed.

**INSTRUCTIONAL MATERIALS COMMITTEE:** Sampson reported the script bank is still serving the membership. He receives quite a few orders, both from people who have no script writing experience and from institutions doing research on other scripts.

David Hurd is working on updating the TIPS booklet on helping the handicapped in the planetarium. TIPS #4 is being updated and rewritten by Marilynn Bacyinski.

Mitch Luman is still shooting lots of slides duplicates from the slide bank. His charge of 50¢ per slide covers most of his cost. It was recommended that a light table be used at the conference for viewing the slides. There will also be some way to identify the slides less than two years old.

**DEVELOPMENT COMMITTEE:** Bass has sent letters and participation forms to companies who have been a part of the GLPA conference in the past. Several have responded positively to that mailing. Bass asked for names of possible door prize contributors be sent to him.

**NEW BUSINESS:** Handbooks - Tomlinson distributed revised and reprinted Officers’ Handbooks to members of the Executive Committee.

**Position Paper** - There was a suggestion to revise or remove from the GLPA list of position papers the Final Report of the Planetarium Facilities Committee, October 1968, as much of its contents are now outdated. It dealt with all kinds of recommendations on the construction of planetariums and was approved by the membership. Smith noted a similar IPS booklet is a more appropriate document. It was agreed any action on this paper must come before the membership.

**OLD BUSINESS:** Russia slide project - Batch reported Alan Pareis has not been able to work much on this project; one of the problems is the rumor that the Moscow planetarium is no longer open for shows.

**Sourcebook** - There was no news from I.P.S. on any progress that has been made in putting this publication together.

**NEW BUSINESS:** It was reported Rob Landis is looking for a location to put a Space Telescope Institute master slide set where copies could be made for distribution. Anticipated problems included an unknown amount of copies which might be requested, and if STI would want slides to be made available to everyone, not just GLPA members. Tomlinson suggested STI give a slide set to each regional for distribution to their own members. Smith suggested ASP as an organization which would be a national outlet for the STI Hubble slides.

Whitt moved to adjourn. Seconded and passed.

Respectfully Submitted, 

David E. Parker, Sec./Treas.
EXHIBITORS AT GLPA CONVENTIONS

For years, GLPA has wrestled with a fair method to include those organizations or individuals who have something to sell the planetarium profession. We have solicited input from non-vendor members, from vendors, from businesses not associated with the planetarium profession and from other, non-planetarium associations to see how they’ve dealt with this issue. We have spent hours talking, either on the phone or in person, to GLPA members who are vendors and even put the question to our convention delegates on our annual conference questionnaire.

What we decided was based on the following assumptions:

1. The planetarium profession is unique.
2. Planetarium vendors are small businesses for the most part. Many planetarium vendors were (and some still are) employed as planetarians. Even Armand Spitz started this way.
3. Vendors are very important to our profession. Most of GLPA’s membership rely heavily on vendors to supply shows, music, art, projectors, electronics, etc.
4. Having products displayed at the convention is of benefit both to the vendor and GLPA delegates.
5. Many GLPA members can’t afford the latest gadget or projector. Therefore, some members have expressed disappointment about vendors utilizing the delegates’ convention time to make a sales pitch. Further more, they disagree with the concept of delegates paying the conference registration fee and being subjected to commercials. Even so, vendor presentations are important even for this type of person. One never knows when they will have money to spend.
6. Vendors displaying products at GLPA conventions are getting a lot of "bang for their advertising buck." This way vendors don’t have to cart equipment from planetarium to planetarium to demonstrate their products. Displaying products at GLPA conventions also shows our members that these vendors are interested in serving their needs.
7. Different delegates have different needs. Sometimes these needs are in conflict, therefore, the Conference Host must try to accommodate all of these needs as fairly as possible.

Therefore, GLPA has adopted the following policy, which we hope is fair to everybody.

1. Everybody (except invited speakers) attending a GLPA conference must be a member and pay the registration fee (certain categories of membership waive the registration fee).
2. All members may exhibit flyers at the conference without cost.
3. All members may have 3 minutes of convention time to
introduce themselves and describe the product(s) they sell.

4. All members may submit proposals for 10 minute talks. These contributed papers should not be blatantly commercial.

5. All members may purchase convention time to:
   a. Talk longer
   b. Demonstrate a product or show

6. All members may purchase exhibit space at the convention (this exhibit fee is waived for some categories of membership).

The cost to exhibit is only $50.00 and cost to buy demonstration time is around $150.00 for 20 minutes. The Conference Host is granted leeway to tailor the exhibit fees to the particular conditions of the convention, so if you are considering marketing a product or service that would be of benefit to GLPA members, call our Conference Hosts or GLPA’s Development Chair. Their names are on the back of this Newsletter.
Get out your calendars and mark October 25-28, 1995, for the GLPA Conference in Grand Rapids, Michigan. Yes, we are having a Small-Dome Workshop as well as another Make-it, Take-it Workshop. Another highlight for small-darners will be the preview of GLPA's production of the 3rd grade program, *A Solar System Adventure* by Dave DeRemer. The show will come complete with a professional soundtrack by Jeff Bowen, slides, script and a teacher's guide. It will be available to GLPA members for the cost of reproduction.

There may still be time to register for the Teacher Workshop at Ball State University in Muncie, Indiana. *Instruments and Techniques in Planetarium Operations* is offered for July 5 - 14, 1995 (at $470 for 3 hours). For more information, please contact: Dr. David R. Ober; Department of Physics and Astronomy; Ball State University; Muncie, IN 47306. His phone number is (317) 285-8860 and fax number is (317) 285-1624. His e-mail address is OOdrober@leo.bsuvb.bsu.edu.

Looking for help in building that special effects projector? The International Planetarium Society published the *Special Effects Projector Sourcebook* by David A. Aguilar in 1982 that is full of useful ideas. For more information, contact: Keith Johnson; IPS Treasurer and Membership Chairman; Fleischmann Planetarium; University of Nevada; Reno, NV 89557. His phone number is (702) 784-4812. His fax number is (702) 784-4822. His e-mail address is keithj@equinox.unr.edu.

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

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Using Ellison Machine Figures in Your Planetarium

Roger Grossenbacher
Peters Planetarium
Lancaster High School
1312 Granville Pike
Lancaster, Ohio 43130

The Ellison machine is well known among elementary teachers as a device for neatly stamping out letters and figures to make into posters. Besides letters and numbers (in 2" and 3" sizes), over 100 other designs are available. The cutouts are typically 3" to 5" tall and thus many of them are in approximate scale to decorate a planetarium cove. Trees (bare and evergreen), houses, a school bus, a train, traffic signals, and a sailboat all add a nice touch to a flat planetarium horizon.

Each black paper cutout can be glued atop an identical craft paper cutout. This strengthened figure is then attached to a 3" high rectangle of posterboard with a 5" wooden splint glued on the back. The posterboard fits out of sight behind the cove as a supporting base.

Additional uses of Ellison letters include the creation of removable cardinal point signs to be attached to the cove. These can be assembled by placing 3" white letters on a black posterboard background. Self-adhesive magnetic strips attached to the back of the signs will hold them nicely to the iron portion of the cove base ring.

Names of the naked eye planets can be similarly prepared. For review following an elementary program, students can be asked to recall in which direction the evening (or morning) planets were located. The appropriate name tag can then be magnetically attached to the cove at the proper azimuth. As further embellishment, a magnetized laminated NASA color print of the planet can also be attached next to its name.

There are several seasonal silhouettes such as pumpkins, black cats, turkeys, and (of course) Santa's sleigh and his reindeer. For those inclined toward accuracy, leafy green summertime trees may be replaced by those in autumn colors and during the winter bare snags can be on display. If
"The Sky Is The Limit"

Introducing the Universarium, the largest of all Zeiss planetariums.

The Universarium offers audiences the best in Zeiss planetaria - stars that twinkle with a color and brilliance found in nature, a complete presentation of the solar system and the starry sky, the latest Zeiss fiber optic and 2 in 1 starball technology, multi-media compatibility, computer control and limitless possibilities.

For over 70 years, Zeiss planetariums have been known for their quality, durability and performance. More than 500 planetariums all over the world testify to 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.

The Universarium
M-VIII & MVIII TD

The largest of all Zeiss planetariums, the Universarium projects over 9000 stars with the color and brilliance found in a natural sky. A new fiber optic system and unique 2 in 1 starball design combine easily with multi-media effects. Available in models for tilted and horizontal dome sizes of 57 to over 98 feet, the Universarium offers superb presentation quality, the latest Zeiss technological advancements and limitless possibilities.

Call your Seiler Instrument representative for details.
The Great Lakes Planetarium Association
would like to thank the following Patron and
Sustaining Members for their support:

PATRON MEMBERS
$200 and up

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 Yatsaki-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

SUSTAINING MEMBERS
$75 - $199

Spitz, Inc.
P.O. Box 198
Route 1
Chadds Ford, PA 19317
Representative: Ralph Lamenzo

Laser Images
6911 Hayvenhurst Avenue
Van Nuys, CA 91406
Representative: Gene Partika

David E. Parker
Tipton, IN

WHY NOT ADVERTISE IN
THE GLPA NEWSLETTER?

By advertising in the GLPA Newsletter, you'll reach the decision makers from large and small planetariums throughout the world. Don't miss this unique opportunity!

To request advertising rates and/or a contract for GLPA Newsletter ads, please contact:

Bart Benjamin, GLPA Newsletter Editor
Cerman Earth and Space Center
Triton College
2000 Fifth Avenue
River Grove, IL 60171
(708) 456-0300, ext. 3408

Seiler Instrument and Manufacturing Co.
170 East Kirkham Avenue
St. Louis, MO 63119
Representative: Pearl Reilly

Wheeling Convention and Visitor's Bureau
1233 Main Street
Wheeling, WV 26003
THE GREAT LAKES PLANETARIUM ASSOCIATION offers membership opportunities to all individuals in any way connected with the operation of planetariums regardless of geographic location. G.L.P.A. is an affiliate of the International Planetarium Society and the National Science Teachers Association. Membership dues are $20 annually, payable at the time of the Autumnal Equinox. General correspondence and requests for membership should be addressed to: Mr. David E. Parker, Secretary/Treasurer (address below). This quarterly GLPA Newsletter is received by all members in good standing. Ideas and opinions expressed in the GLPA Newsletter are not necessarily those of G.L.P.A., its membership, or the editor. Deadlines for contributions fall on the 1st of February, May, August, and November. Send information to: Bart Benjamin, Editor (address below). Copyright 1995.
EXPLORE NEW WORLDS AND IDEAS
AT THE 1995 GLPA CONFERENCE
GRAND RAPIDS  OCTOBER 25 - 28, 1995
PRESIDENT'S MESSAGE

David Batch

You've heard me sing the praises of the GLPA Executive Committee before. I don't think there is a harder working bunch of volunteers in the profession. The services and publications that make GLPA unique are due primarily to the effort of the GLPA Executive Committee.

We did a quick survey at one of the committee meetings a while back to see how many combined years of service the Executive Committee members represented. The answer from this informal tally: 69 years! That is, the current Executive Committee has volunteered almost 70 years of effort to GLPA! Lest you think that figure represents nothing more than an 'old boys club,' the composition of the current committee includes people with less than a year of service, from big domes and small and both genders as well. We have a good mix of traditional ideas and progressive thinking.

One example of the kind of work represented within this group is a publication you are not likely to see unless you become a member of the Executive Committee. It's called the GLPA Handbook, and each committee member is entrusted with a copy for the duration of their tenure. Within this blue looseleaf notebook are 359 pages (at least that's how many are in the president's edition) chock full of information to assure a smooth running association. Duties of all the officers and committee chairs are listed, along with copies of helpful forms, letters and timetables. Our various governing documents and associated procedures are collected here. The history of GLPA is recounted with a synopsis of each conference. A thorough set of conference planning do's and don'ts and tips and tricks completes the volume. In short, it's most everything you might need to know about GLPA but hope you don't.

Although the GLPA Handbook represents many people's ideas over a number of years, one person deserves enormous credit for following through with this gargantuan undertaking. He has ably served GLPA in many capacities, currently as conference planning chair -- none other than our "Mr. Attention to Detail," Gary Tomlinson. Gary would be quick to point out that Dale Smith was instrumental in getting the material in printed form.

(continued on page 7)

Bart Benjamin

By the time you read this, you should have received registration information about the upcoming GLPA Conference in Grand Rapids, Michigan. If you've considered attending a GLPA conference but haven't, this is the year and this is the conference for you! GLPA is celebrating its 30th anniversary in style at the new Public Museum of Grand Rapids and its state-of-the-art Chaffee Planetarium. If I were you, I would do everything I could to attend this exciting conference. If you need more information or didn't receive conference materials, please call hosts Dave DeBruyn or Gary Tomlinson at (616) 456-3977.

This is an election year for the Great Lakes Planetarium Association. Members will cast their votes at the October conference for the offices of President-Elect, Secretary/Treasurer and I.P.S. Representative. Please take a few minutes to read the information on pages 9 and 10 to familiarize yourself with the candidates. If you wish to vote but cannot attend the conference, please request an absentee ballot from Membership Chairman Gene Zajac.

Please remember that the deadline for the winter issue of the GLPA Newsletter is November 1, 1995 -- immediately after the conference. Best of luck in the new school year! I hope to see you in Grand Rapids!
ILLINOIS

Chairman: Bart Benjamin
Cernan Earth and Space Center
Triton College
2000 Fifth Avenue
River Grove, IL 60171
(708) 456-0300, ext. 3408

The Cernan Earth and Space Center of Triton College in River Grove is currently showing its own production of Discover the Planets, its children's show Zip! Zoom! Whiz!, its Monthly Skywatch and its Pink Floyd Dark Side of the Moon laser light show. After Thanksgiving, the Cernan Center will present its annual holiday show Celebrations of Winter. The Cernan Center recently received a two-year, $37,600 general operating support grant from the Institute of Museum Services.

The Illinois State University Planetarium in Normal is currently showing The Milky Way, which describes the dynamic nature of our own galaxy and how our solar system fits into the larger picture.

The Lakeview Museum Planetarium in Peoria is currently presenting Life Beyond Earth. In November, Galactic Adventures, the choose-your-destination universe show, will premiere. In a cooperative venture with the Girl Scouts, the Saturday morning family show series beginning in September will have added post-show activities. With the show, these activities will fulfill badge requirements. The Interplanetary Bicycle Ride last July had over 110 riders travelling to the outer planets on Saturday (despite 96 degree heat) and over 80 for the inner solar system on Sunday. Thank you to Bart Benjamin, Cernan Earth and Space Center, and Chuck Greenwood, Staerkel Planetarium, for joining us. Bart went to Neptune and back, while Chuck travelled the inner solar system and helped out with commentary on the planets for his group. Sheldon Schafer took a one-way trip to Pluto. Next year’s dates have been tentatively set for July 27 and 28, 1996.

The William M. Staerkel Planetarium of Parkland College in Champaign just completed a successful "Reach for the Stars" family workshop. Three programs opened in early September, including a new children's program entitled Follow the Drinking Gourd, the C-360 film Seasons and The Fabulous Four, a new light show featuring the music of the Beatles. Their holiday spectacular Rites of the Season will be shown from Thanksgiving through the end of the year. October brings the return of their Halloween show A Night of Horrors as well as the "World of Science" Lecture Series continuing on the first Friday of the month.

INDIANA

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

Rich Valentine has joined the staff of Evansville Museum's Koch Planetarium as Science Associate. He previously worked at the Discovery Center in Rockford, Illinois.

Speaking of Evansville, did you know that the Dinomation Mammoth at the Terre Haute Children's Museum is named "Mitch"? The Children's Museum set an attendance record with its Shark exhibit. Jerry Mansfield is also experimenting with a joint fund raising dinner for the Allen Memorial Planetarium and Central Christian Church in Terre Haute. Call Jerry for details.

The Planetarium at Ball State University recently installed a new Screen Master System, bright star automation for their A3P and Flex Trak dome lighting. Later this year, the BSU Planetarium and the Minnetrista Multi-Cultural Center of Muncie will co-sponsor the Star Trek duo Orion Rendezvous show and Federation Space exhibit.

Alan Pareis, observatory operator at the Adler Planetarium in Chicago, was the astronomer for a week long Elderhostel in August. In June, Alan started a new position as Interim Ministry Specialist at a church in Terre Haute. He now commutes between Terre Haute, Adler and his home in Fort Wayne, and is looking forward to doing some volunteer work for Jerry Mansfield.

Belated congratulations to GLPA members
STATE NEWS (cont.)

Bruce Bradle and Carol Woolsy, who were married on June 17th.

MICHIGAN

Chairman: Lisa Daly
Upton Middle School Plm.
800 Maiden Lane
St. Joseph, MI 49085
(616) 982-4631

The all-new Chaffee Planetarium wants to extend a reminder and invitation to all GLPA members to join us for the annual meeting in Grand Rapids, October 25-28, 1995. (see page 8)

The Abrams Planetarium in East Lansing is closed until late September or October for construction. Improvements are being made to the display areas near the entrance and the office spaces, while their restrooms are being made more handicapped accessible.

The McMath Planetarium at the Cranbrook Institute in Bloomfield Hills will premiere a new laser show this fall, entitled Modern Rock. Their sky show The Sky Tonight will start playing in early fall.

The Kalamazoo Public Museum Planetarium is presenting the final shows in their current facility: The Universe of Dr. Einstein in October along with an autumn star gazing show. The installment schedule is projecting their first shows in the new facility to be early in February of 1996.

The Longway Planetarium in Flint will reopen at the end of September after maintenance work. Fall shows include Spookie Skies in October and a Halloween laser show. Fred Penner's In My Backyard is scheduled for November.

OHIO

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

Mary Schindewolf is the new planetarium director at Lourdes College. She had served as interim director last spring and graduated in May from Bowling Green State University, where she had worked at the planetarium for three years.

"Mission to Mars" returned to COSI from May through September. Originally developed at COSI in 1991 by former GLPA Development Chair Bill Buckingham, "Mission to Mars" is an extensive hands-on exhibit simulating a mission to the red planet for groups or individuals. It won the 1992 Computer World/Smithsonian Award for excellence in science education and has since toured several science centers nationwide. COSI has also unveiled plans for a new $121 million facility to replace its current operation. The new facility will include a space theater.

The fall program at Bowling Green is Through the Eyes of Hubble. This Buhl Planetarium production displays many of the discoveries made by the Space Telescope. Bowling Green also recently completed installation of dual 12-frame panorama and 6-frame All-Sky systems. Single pan and All-Sky banks were installed in 1985 shortly after the planetarium opened and the new second banks of each add overlay and dissolve capability.

Ohio planetarians are beginning to assemble a book detailing the history and current activities of the state's planetariums. Jeanne Bishop is editor. All Ohio planetarians have received a mailing requesting a description of their facility. Please respond if you have not already done so. For further information, contact Jeanne Bishop or Dale Smith.

WISCONSIN

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

The Minneapolis Planetarium is premiering its production Cosmic Critters in September and is also re-running their program Dinosaur Detectives. In October, they will feature their production The Far Side of Halloween.

The University of Wisconsin at La Crosse Planetarium is running the Minneapolis Planetarium production of Starship Earth for its October
OBITUARY

Dolores Kurek, planetarium director at Lourdes College, passed away in early June after a long battle with cancer.

Dolores had directed the Copernicus Planetarium for several years in addition to a heavy teaching load. She hosted the Ohio spring meeting in 1992 and was a major organizer of Toledo area science fairs for many years. Dolores brought a spirit of determination and enthusiasm to everything she did and will be missed by her many colleagues and students.

ADDITIONS TO THE GLPA PRINTED MATERIALS FILE

Two recent donations have enriched our GLPA printed materials file. Dale Smith has donated his script, entitled To Shine Forever: The Incredible Lives of Stars. Done in Dale's usual creative style, his script details the processes of stellar evolution.

George Reed has donated a generous sampling of clip art cartoons with unrestricted rights for use. Both the clip art and the new script will be available during our annual conference in Grand Rapids.

NASA'S PASSPORT TO KNOWLEDGE SERIES

The National Science Foundation, NASA's SpaceLink and PBS Online's Learning Link have collaborated to create a series of electronic field trips to scientific frontiers.

The first of these, entitled "Live from Antarctica" premiered in December 1994 and January 1995. Designed to improve student attitudes toward science and improve communications skills, "Live from Antarctica" allows students to experience for themselves what it's like to live and work in a place that is, without modern communications, the most remote continent on earth. Its theme is the co-evolution of this amazing region and its life forms.

Videotapes of this 4-hour television program, along with a 50-page Teacher's Guide and extensive online resources are available at cost from NASA CORE. Their telephone number is (216) 774-1051. The URL for the "Live from Antarctic" Home Page is: http://quest.arc.nasa.gov/livefrom/livefrom.html.

NASA's K-12 Internet Initiative supports a gopher menu via: quest.arc.nasa.gov.

Future electronic field trips include "Live from the Stratosphere," where students can take a virtual night flight aboard the Kuiper Airborne Observatory, which is set to broadcast in the fall of 1995. "Live from the Hubble Space Telescope," which will allow students to look over the shoulders of astronomers using the nation's foremost orbital observatory, is scheduled to be broadcast in the spring or summer of 1996.

To contact Passport to Knowledge, call (800) 626-LIVE or send e-mail to: listmanager@quest.arc.nasa.gov. In the message area write: subscribe sharing-nasa.

Or you can write: Live from the ...; P.O. Box 1502; Summit, NJ 07902-1502.

150TH ANNIVERSARY OF CINCINNATI OBSERVATORY

Cincinnati has something unique to celebrate! It is the 150th anniversary of the University of Cincinnati Observatory. Cincinnati had the first professional observatory in the United States.

The Cincinnati Observatory has printed a special full-color poster to commemorate this exciting event. The poster not only features the Observatory, but the Cincinnati Astronomical Society and the Cincinnati Planetarium as well. All proceeds from the sale of this poster will be split among these three organizations. For more information, please write Larry Paul; 8852 Montgomery Road;
Cincinnati, OH 45236. His phone number is (513) 891-5225.

NSTA AWARDS COMPETITIONS

The National Science Teachers Association (NSTA) is sponsoring three different science competitions, as follows:

TOSHIBA / NSTA EXPLORAVISION AWARDS. Open to K-12 students in the U.S. and Canada, this competition rewards creativity, ingenuity and teamwork with savings bonds to top winners and valuable prizes to teachers and students. Entry deadline is February 1, 1996. Entry kits will be mailed to teachers in September. If you do not receive an entry kit by October 15, contact: Toshiba/NSTA ExploraVision Awards Program; 1840 Wilson Boulevard; Arlington, VA 22201-3000. Or call (800) EXPLOR-9.

DURACELL/NSTA SCHOLARSHIP COMPETITION. Open to students in grades 9-12 residing in the United States, this competition rewards students who design and build innovative working devices powered by Duracell batteries. Top student winners receive savings bonds and teachers of the top winners receive valuable prizes as well. Entry deadline is January 12, 1996. Interested parties should request an official entry form by writing: Duracell/NSTA Scholarship Competition; 1840 Wilson Boulevard; Arlington, VA 22201-3000. Or call (703) 312-9258.

TOYOTA / NSTA TAPESTRY GRANTS. Open to middle and high school science teachers residing in the United States, this competition rewards teachers who propose innovative one-year programs with budgets of up to $10,000 that will enhance science education in their schools. Forty grants of up to $10,000 each will be awarded this year. Application deadline is January 23, 1996. To obtain an application kit, please write: NSTA/ Tapestry; 1840 Wilson Boulevard; Arlington, VA 22201-3000. Or call (800) 807-9852.

PRESIDENT'S MESSAGE
(continued from page 3)

When you see Gary this fall at the conference, ask him what he's doing with all his free time now that the Handbook is done. And while you're at it, take a moment to shake his hand, and the hand of each Executive Committee member, and thank them for a job exceedingly well done.

Speaking of the conference, I hope you can find a way to be there. It promises to be an event to remember. The facilities of the new Grand Rapids Public Museum and the Chaffee Planetarium are world class. And with Gary, and Dave DeBruyn and Mark Perkins running the show, you know it will be top notch. I look forward to seeing you by the banks of the Grand River on October 25th.

STATE NEWS
(continued from page 5)

public program. In November, the Hansen Planetarium production of The Universe of Dr. Einstein will be the public program.

The Horwitz Planetarium in Waukesha will feature the Minneapolis Planetarium production of Starship Earth in October and November.
31st Annual Great Lakes Planetarium Association Conference
held in conjunction with the Michigan Museum Association (MMA) Conference

October 25 - 28, 1995
Grand Rapids, Michigan

Celebrate the 30th anniversary of GLPA by returning to its birthplace in Grand Rapids and tour the brand new $35 million Van Andel Museum complex and Chaffee Planetarium.

HIGHLIGHTS

°Expanded Astronomy Update Lecture
  Learn the latest news in astronomy and what's happened in the past year

°Planetarium shows
  Premiere of the GLPA produced Solar System show for small domes
  Laser Light shows
  Other commercial shows for purchase
  Current Chaffee sky shows

°Special 30th Anniversary Activities

°Garage sale of planetarium effects
  Bring your unwanted, labeled and priced items to sell (and your money)

°Spouse, Family and optional activities
  Tour the Veen Observatory
  Visit the Grand Haven Jr. HS Planetarium and harbor front
  Tour the Gerald R. Ford Museum
  Listen to the Grand Rapids Symphony Orchestra
  Visit the John Ball Zoo
  Visit the brand new Meijer Botanical Gardens

°Spitz Lecturer
  Robert C. Elliott, Director
  Phillips Planetarium
  University of Wisconsin

°Workshops
  Inexpensive special effects
  Using Starlab and other small domes

°Vendor exhibits
  1300 sq. ft. of display space

°Museum tours
  Guided introduction of the 4 major exhibit areas

°Carousel rides
  Ride the museum's antique 1928 Spillman Carousel

°Organ recital
  Hear an authentic 1928 Wurlitzer theater organ

Cut off date for registration is October 13, 1995. After that date, call (616) 456-3977 or fax the Public Museum of Grand Rapids at (616) 456-3873 to indicate your attendance.
Here's hoping everyone made it through our steamy summer. We're all looking forward to the GLPA Conference. More information on the conference is in this newsletter. Hope to see you there!

I recently became aware of an educational service that includes Starlab presentations that's available in 27 states. Mobile Ed Productions, Inc. has four Starlabs, including two that are oversized, large enough for 70-90 students! The company offers a variety of educational programs.

For more information, contact Joanne Love at (800) 433-7459. Several schools in my own district have taken advantage of this service and were very pleased with the presentations. Joanne is planning to join GLPA and send presenters to our conference. Welcome, Mobile Ed!

News from the IPS Mobile News Network: An interesting idea for using your portable planetarium comes from Juan Carlos Zabalgoitia, Director of the Astronomia Educativa S.R.L., C.C. 100, Suc.25-(1425) Buenos Aires, Argentina. He described "planetarium astrophotography" as follows: "put the camera on a tripod and take a shot with the exposure time necessary: 1 second, 5 seconds, 2 minutes, etc. The star will not move--never! Also, we do not have to wait for summer (winter there) to take a photo of Orion . . ." Thanks, Juan. Another idea along the line of Juan's suggestion is to photograph star trails in your portable.

Some of you may wish to consider attending the first European Conference for itinerant and small planetaria which will be held in Brescia, Italy from October 13-15, 1995. For more information and registration, please write: Loris Ramponi, Associazione Amici dei Planetari, c/o Cicivi Musei di Scienze, Via Ozanam 4, 25128 Brescia, Italy (fax 30 87 25 45) or Susan Reynolds, OCM BOCES Planetarium, P.O. Box 4774, Syracuse, NY 13221 (fax 315-433-1530).

Please send me your news. We'd love to hear from YOU! Happy Equinox!

Dayle Brown
Pegasus Productions
713 Cushing
South Bend, IN 46616

GLPA ELECTIONS

The Nominating Committee (Dan Goins, Dave Hurd, Jerry Mansfield, Rick Pirko and April Whitt as chair) respectfully submits to the membership the following candidates for offices:

President Elect: Dan Francetic
Gary Lazich

Secretary/Treasurer: Dave Parker

I.P.S. Representative: Sue Reynolds

CANDIDATE INFORMATION

Dan Francetic; Euclid High School
711 E. 22 Street; Euclid, OH 44123

Dan received his B. Ed. from Duquesne University, his Masters degree from Case Western Reserve and is currently in his 38th year of teaching.

He has been a member of GLPA for 25 years, during which time he has helped host two conferences in Cleveland and has given a number of presentations. He is also a member of AAVSO, ASP and CRAP. In 1979, Dan was selected for the Outstanding Educator Award in Euclid Schools. He has been a Project STAR consulting teacher, a participant in the 1994 AAVSO Hands-On workshop and is Project Director for the NSTA/Toyota TAPESTRY Grants.

"Of the five regional planetarium organizations in the United States," Dan comments, "GLPA should strive to continue being the leader..."
and the most active of these groups."

Gary Lazich; Russell C. Davis Planetarium
201 East Pascagoula Street; Jackson, MS
39201-4114

Gary received his B.A. in Astronomy from Northwestern University, with concentrations in mathematics, physics and education/psychology. He has been a member of GLPA for 18 years. He's also a member of SEPA, IPS, The Planetary Society and C-360, Inc. which he assisted in founding.

Gary helped host the 1976 Conference at the Cernan Earth and Space Center and has presented several papers, the latest of which was "Growing Up With Planetariums" in 1994. Gary was the 1983 United Way Volunteer of the Year in Hibbing, Minnesota and has received recognitions from the Broward County Girl Scouts. He's maintained a viable planetarium career despite three layoffs and four cross-country moves.

"I've spent much of my career trying to stay alive professionally, despite obstacles and setbacks," Gary states. "Membership in GLPA has provided invaluable encouragement along the way. By serving GLPA as one of its officers, I would hope to return to its members some small measure of the benefit I've derived from being a member."

"My continuing membership in GLPA, even though I had to leave the region nearly a decade ago testifies to GLPA's value as a way of professional life that extends beyond geographic boundaries. Outstanding publications like the GLPA Newsletter, the Proceedings and the Sourcebook benefit everyone in the profession and should continue."

"I remain mindful of Sig Weiser's observation at the 1980 IPS Conference that everyone wants to warm themselves by the fire but no one wants to bring in the wood. I believe we have a responsibility -- individually and collectively -- not only to keep bringing in wood for the fire (and bringing in people who find themselves out in the cold) but also to convey the value of its warmth to those who can help us keep it fueled: principals, museum directors, college and university presidents, foundation boards and the general public."

Dave Parker; Tipton Planetarium
Tipton Community Schools; 221 N. Main Street
Tipton, IN 46072

Dave received his B.S. and M.S. in Earth Science from Ball State University. He is also a member of IPS and NSTA.

Dave has been a member of GLPA for 22 years, running the Instructional Materials Slide Bank from 1979-1982. He also co-edited Tips Booklets #8, #9 and #10, hosted Indiana state meetings in 1978 and 1991 and has served as Secretary/Treasurer of GLPA since 1981. Dave is a Fellow of GLPA and this fall he'll be attending his 23rd consecutive conference.

Dave says, "The diverse membership of GLPA is often faced with important and rapid changes in many areas, including education, finances and technology. Providing timely and pertinent assistance and support for members as their needs change should be a priority of GLPA."

Susan Reynolds; OCM BOCES Planetarium
P.O. Box 4774; Syracuse, NY 13221

Sue's B.A. in Education is from SUNY College at Fredonia, and she's done graduate work at St. Bonaventure University. She's been a member of GLPA for 7 years, in which time she's given six papers and six workshops at annual conferences.

Sue is also a member of IPS, MAPS, ASP, NSTA, STANYS, The Planetary Society and the Syracuse Astronomy Society. She was selected Outstanding Teacher of the Year in 1994.

"Since so many people still need to become aware of and able to tap the vast resources of GLPA, networking users to the benefit of everyone remains my major goal."

PLEASE NOTE:

If you are a GLPA member in good standing who cannot attend the conference but would like to vote for officers, you may request an absentee ballot from:

Gene Zajac
Shaker Heights High School
15911 Aldersyde Drive
Shaker Heights, OH 44120
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ZKP3

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Call your Seiler Instrument representative for details.
The Great Lakes Planetarium Association would like to thank the following Patron and Sustaining Members for their support:

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  Fuchu-shi, Tokyo JAPAN 00183
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  Portland, OR 97219
  Representative: Mike Lutz

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  Ramsey, NJ 07446
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- **Pangolin Laser Software**
  10114 Lavender Flower Court
  Manassas, VA 22110
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- **Seiler Instrument and Manufacturing Co.**
  170 East Kirkham Avenue
  St. Louis, MO 63119
  Representative: Pearl Reilly

- **Wheeling Convention and Visitor's Bureau**
  1233 Main Street
  Wheeling, WV 26003

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$75 - $199

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  Representative: Ralph Lamenzo

- **Laser Images**
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  Van Nuys, CA 91406
  Representative: Gene Partika

- **David E. Parker**
  Tipton, IN

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**Bart Benjamin, GLPA Newsletter Editor**
Cernan Earth and Space Center
Triton College
2000 Fifth Avenue
River Grove, IL 60171
(708) 456-0300, ext. 3408
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 1995.

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 some circles it's been stated that a person reaches his or her prime at 30 years of age. The same, it seems, could be said for GLPA. Our recent Grand Rapids conference was a clear indication of the vitality of our 30-year-old association. First off, it was the largest GLPA conference ever. Over 150 planetarians attended. The setting was magnificent. The new Grand Rapids Public Museum and Roger B. Chaffee Planetarium are world-class facilities -- ideal for celebrating a 30th "birthday." The staff effort and planning were obvious. Gary Tomlinson, Dave DeBruyn, Mark Perkins and Dan Braybrook, to name only a few, could not have made the event more inviting. Our sincere thanks.

The level and quality of participation by all the delegates was impressive: the paper presenters, the exhibitors and sponsors and the invited speakers. For those who could not attend or those with short memories, remember that the papers and talks will be included in the GLPA Conference Proceedings, to be printed in January.

We were treated to several stimulating planetarium shows at the conference. Among the programs previewed was GLPA's first show for member distribution, A Solar System Adventure Tour. The plan of Dave DeRemer, our education committee chair, was to produce a high quality show that could be useful to large and small domes alike, and then make it available to the membership at cost. Dave has clearly succeeded, and the show will be available once the distribution plans are worked out. [Editor: see page 16 for more details and an order form.]

Seventeen new GLPA Fellows were inducted at the meeting, including James Kaler, who for so many years has seen to it that we're up to date on the latest astronomical discoveries. Other honorees: Jeff Bass, Chuck Greenwood, David Leake, Rod Nerdaht, Alan Pareis, Jenny Pon, George Reed, Eric Schreur, Jim Comienski, Gary Lazich, Steve Mitch, Randy Olson, Rick Pirk, Gloria Rall, Sue Reynolds and Gene Zajac. A hearty congratulations to all!

A particularly noteworthy part of the conference for me was the invited speakers. They were topnotch, without exception. They alone were worth my registration fee. I've already mentioned James Kaler. Astronaut Tom Jones (no, Gary, not the singer) gave a thoughtful firsthand account of

(continued on page 7)

Bart Benjamin

Happy Holidays from GLPA!

As usual, the winter GLPA Newsletter contains a great deal of news from the fall conference, held this year in Grand Rapids. Thanks to the efforts of David Parker, the minutes of Executive Committee and Annual Business Meetings are reprinted on pages 12 through 15. Please take a few minutes to familiarize yourself with the many activities of your planetarium association.

Also in this newsletter, you will find nomination forms for GLPA Fellow and GLPA Honorary Life Member, which are printed on pages 17 through 20. Please take a few minutes to think of a colleague or two that deserves to be recognized for their long standing participation or contribution to the Great Lakes Planetarium Association.

We have a rare treat on pages 10 and 11 -- color photographs from the GLPA conference in Grand Rapids! The color printing is courtesy of the Bowling Green State University Print Shop and Dale Smith. The photographs were taken by Georgia Neff, who served as the official conference photographer. Thank you all!

Please remember that the deadline for the spring issue of the GLPA Newsletter is February 1, 1996. Merry Christmas (or Happy Hanukkah) and Happy New Year to all!
The Illinois State Meeting will be held at the Illinois State University Planetarium in Normal on Saturday, April 13, 1996. Carl Wenning will host.

Beginning in January, the Cernan Earth and Space Center of Triton College in River Grove will present the Buhl Planetarium production of Through the Eyes of Hubble, its own children's show Dinosaurs in Space, its Monthly Skywatch and an all-new laser light show. Last October, Gemini and Apollo astronaut Gene Cernan visited the campus to help kickoff a Cernan Center/Triton College Foundation corporate fund raising effort.

Starting in January, the Illinois State University Planetarium in Normal will present The Universe of Dr. Einstein, which describes relativity and the weird effects associated with travel approaching the speed of light. The ISU Planetarium has entered into an agreement with their local cable TV channel, which will help promote the planetarium to local residents.

The William M. Staerkel Planetarium of Parkland College in Champaign is currently running Prairie Skies (a tour of the backyard sky), Stars of Jade, the family program Follow the Drinking Gourd and The Fabulous Four, a new light show featuring the music of the Beatles. In February, Dark Side of the Moon will replace the Beatles show. James Kaler was the December speaker in Staerkel's monthly "World of Science" lecture series.

The Indiana State Meeting will be held at Martinsville High School on Saturday, April 13, 1996. Dan Goins will host.

The Muncie Community Schools Planetarium has been part of the "Passport to Knowledge, Live from the Stratosphere" program. Both elementary and high school students participated. Fourth and fifth graders camped in at the planetarium and participated in real time via satellite uplink with the "Night Flight to the Stars aboard the Kuiper Airborne Observatory." A follow-up program was part of a November 16 school open house. It featured tapes and a real time e-mail conversation with GLPA President-Elect April Whitt, who recently flew on a Kuiper mission.

The Merrillville Community Planetarium continues to be the champion of student involvement with 32 student assistants this year. Seventeen students recently made a field trip to the Muncie Planetarium. A week later, nine students joined Gregg and Barb Williams at the Grand Rapids GLPA Conference.

Dayle Brown of Pegasus Productions reports that her Young Astronauts are using the Starlab to present mini-Space Camp experiences to younger Young Astronauts. Pegasus is also "moonlighting" in area libraries for public programs designed to encourage young readers.

PLEASE NOTE: If your planetarium is not represented in this State News column, please send whatever information you have to your State Chairman by late January for inclusion in the spring issue.
The Michigan State Meeting will be held at Jackson High School's Peter Hurst Planetarium on Saturday, April 27, 1996. Mark Reed will host.

The Abrams Planetarium in East Lansing is currently showing Planet Patrol through the spring, as well as presentations of Through the Eyes of Hubble.

The McMath Planetarium at the Cranbrook Institute in Bloomfield Hills is also showing Through the Eyes of Hubble as their feature presentation, as well as "numerous" laser light shows.

The Longway Planetarium in Flint will be showing Fred Penner's In My Backyard, Star Stealers and Planet Patrol II. In February, they will present Follow the Drinking Gourd in observance of Black History Month.

The Sky Theater at the Jesse Besser Museum in Alpena is currently presenting a combination of live and "canned" shows, including Hansen Planetarium's Dawn of Astronomy. Their part-time director is Tom Gougeon.

The Gardner Memorial Planetarium at the Kingsman Museum of Natural History is presenting weekend public shows that include a "canned" portion, a live sky tour and a laser show. Tim McDowell is their full-time planetarium intern.

The Ohio State Meeting will be held in Edinboro, Pennsylvania on Saturday, April 13, 1996. David Hurd of Edinboro University will host.

Exploration was a theme in shows at Ohio planetariums this fall. Youngstown and Bowling Green both ran Buhl Planetarium's Through the Eyes of Hubble and Copernicus Planetarium at Lourdes College ran Loch Ness' Hubble Vision. Dayton ran the vintage Hansen Planetarium program Footsteps, dealing with the moon, while Mars -- the Red Planet played at COSI.

Holiday themes have also been in the air. The Old Lights of Holiday Nights and Santa's Secret Star shone at Toledo's Ritter Planetarium. COSI told The Story of the Star and Bowling Green uncovered Secret of the Star. The Christmas Show lit up the dome at Copernicus, where Larry, Cat in Space had prowled earlier in the fall, just before Moonwitch flew at Halloween. The laser light of Nightlights also flew across the dome at Youngstown for Halloween.

John Schroer, former manager of the Cincinnati Planetarium (now closed) has joined the staff at Dayton's Caryl D. Philips Space Theatre. John and colleague Cheri Adams participated in a Starlab workshop hosted by the New York Hall of Science. Dayton is acquiring a Starlab for use in a rental program for rural elementary and secondary teachers.

The Wisconsin State Meeting will be held at the Phillips Planetarium and Hobbs Observatory in Eau Claire on Friday and Saturday, April 19 and 20, 1996. Bob Elliot will host.

The Minneapolis Planetarium is running its production Winter Wonders and Strasenburgh Planetarium's The Story of the Star in November and December. From January through March, they will feature Follow the Drinking Gourd and its own production Cosmic Critters.

(continued on page 9)
GLPA ELECTION RESULTS

The results of the recent GLPA Election are as follows: Dan Francetic for President-Elect; David Parker for Secretary/Treasurer and Sue Reynolds for IPS Representative. Congratulations to all!

AUDIO-VISUAL FILE NEWS

Mitch Luman, curator of the GLPA Slide, Tape and Software Bank, has packaged 24 of the most recent Hubble Space Telescope images, including those presented at the conference by Dr. James Kaler and Dr. Heidi Hammel, in a "Post Conference 1995 HST Shots" for $12 postage paid. You then develop the roll of exposed film.

The images include: 1) four Galilean moons, 2) recent activity on Io, 3) Beta Pictoris, 4) aurora on Saturn, 5) Vesta asteroid map, 6) Hale-Bopp image and 7) gravitational lens. You can preview these images in GIF and JPEG formats on the Internet from URL at:

http://www.stsci.edu/publinfo/Latest.html

Mitch’s telephone number is on the back of the GLPA Newsletter, or you can e-mail him at: mluman@aol.com

ARE YOU GOING TO IPS IN JAPAN?

Dale Smith would like to maintain a list of GLPA members going to the IPS meeting in Japan to help coordinate those who might want to travel over together. If you are planning to go and want to be on the list, please let Dale know. Please specify whether you will be going on the pre- or post-tours. Dale will circulate the list to everyone who is on it. You can contact Dale at the address listed on the back cover of the GLPA Newsletter or by fax at (419) 372-9938 or by e-mail at:

dsmith@newton.bgsu.edu

Northwest Airlines has daily flights from Detroit going nonstop to Tokyo and connecting on to Osaka. Midweek return fares list at about $1,550 but lower fares can be obtained by booking far enough in advance.

RUSSIAN PROJECT UPDATE

Alan Pareis reports that he will be working with the Russian IPS representative and other IPS officers. By the time you read this, they hope to be in the process of slide duplication. Plans and current funding are for 25 sets of 60 slides in the categories of: 1) galaxies and nebula -- representative of each major type; 2) planets, specifically shots from spacecraft and the HST; 3) comets and 4) space program/spacecraft, specifically NASA.

Once the sets are assembled, they will be delivered in person to the Russian IPS representative, who will deliver them to other Russian planetarium directors. For further information, e-mail Alan Pareis on America Online: PARVAN1av or via other services: parvan1av@aol.com

BECOME A TEACHER RESOURCE AGENT

The American Astronomical Society Teacher Resource Agent (AASTRA) Program invites teachers to apply to attend a four-week summer institute during the summer of 1996. The institutes will be held at Loyola University in Chicago (July 8 - Aug. 2), Northern Arizona University in Flagstaff (June 17 - July 12) and the University of Maryland at College Park (June 27 - July 25).

Upon completion of the institute, participants are required to present workshops on astronomy to elementary and middle school teachers within their geographic regions. Elementary and secondary school teachers with a strong interest in astronomy are encouraged to apply. Participants' room and board, up to $350 in travel expenses, a $1,200 stipend and instructional materials will be provided.

For more information and applications, please contact the American Astronomical Society Education Office, University of Texas, Astronomy Department, Austin, TX 78712-1083. Their phone number is (512) 471-6503 and their Internet e-mail is: aas@astro.as.utexas.edu

ALASKA NATURAL HISTORY TOURS

Exciting classes are being offered this summer in Alaska to study the state's amazing natural history. Travel is by train, river rafts and vans on
BULLETIN BOARD (cont.)

these 13-day backpacking expeditions. College credit is available from the University of Alaska and the costs range from $985 to $1,085 (which includes all transportation in Alaska). Other non-credit expeditions are offered. For details, write the instructor, John Wenger, at 3217 Doil Drive, Anchorage, AK 99507.

RAINFOREST WORKSHOP TOUR

If you are searching for something unique, spirited and fun, join a faculty of as many as eight recognized field researchers and environmental educators, including "The Great Kapok Tree" author Lynne Cherry. Earn academic credit during "Amazon Rainforest, Indigenous Cultures and Canopy Walkway" (July 6-13, 1996); "Belize Rainforest, Barrier Reef and Maya Ruins" (July 17-25) or "Costa Rica Rainforest, Cloud Forest and Sea Turtle Nesting" (July 28-August 3).

Each workshop has an action-oriented format designed to give you a portfolio of ideas to translate your experiences to others. For a detailed information package, please call (800) 669-6806.

GEOLOGY WORKSHOP AND FIELD STUDY

Texas A & M University is sponsoring a twelve day geological field study workshop from July 10-21, 1996. The trip, which is open to any K through 12 teacher as well as junior, community or four-year college instructors, will visit Dinosaur Valley Park, Palo Duro Canyon, Great Sand Dunes, Mesa Verde, Monument Valley, Painted Desert, Grand Canyon, Petrified Forest, the Radio Astronomy Array, Carlsbad Caverns and more.

Acceptance is on a first-apply, first-accept basis, and the closing date for applications is March 1, 1996. The cost will be $450 for extension operational costs and $455 for lodging. If you desire a single room, the single supplement is an additional $230. Meals are not included. For additional information, write to Dr. M.C. Schroeder; Department of Geology and Geophysics; Texas A & M University; College Station, TX 77843-3115 or phone (409) 845-2451.

SPANISH LANGUAGE ASTRONOMY RADIO PROGRAM

A new Spanish language radio program produced by the University of Texas and the McDonald Observatory is now available to assist science teachers of predominately Spanish-speaking students. Called Universo, this two-minute program explores the night sky in a style that is both informative and entertaining.

Through the end of 1995, Universo will make subscriptions available at no charge to selected teachers who agree to participate in periodic evaluations of the program and its educational impact. The offer is open to the first 100 teachers who request the program. Interested educators should write to Damond Benningfield; Universo Producer; 2609 University Avenue; #3.118; Austin, TX 78712. His phone number is (512) 471-5285, his fax number is (512) 471-5060 and his Internet address is: damond@astro.as.utexas.edu

GEORGE REED RETIRES FROM WEST CHESTER UNIVERSITY

George Reed, Director of Worldwide Planetarium Operations for Spitz, has selected an early retirement this summer from his positions at West Chester University. George now lives and works from a location on north Lake Tahoe, which he describes as "one of the most beautiful places on earth." His new address is P.O. Box 9208; Incline Village, NV 89452-9208.

PRESIDENT'S MESSAGE
(continued from page 3)

his shuttle missions. Don Hall (no, Gary, not Tom T.) reminisced with us about the maxims he's accumulated in 36 years of being under the dome. I can't wait for the Proceedings to come out so I'll have new material of Don's to quote. Incidentally, the association was proud to honor Don's many contributions to the profession by conferring upon him a lifetime membership. Bob Elliott blended his unique view of the planetarium community with his own philosophy to offer an exceptionally moving Spitz Lecture. Heidi Hammel, whose bespectacled face and contagious enthusiasm became the symbol of last summer's Jupiter-Comet collision, presented a talk on that event that both informed and challenged. She admonished us in planetariums for using the "gaudy" photos of Io and Jupiter with their exag-

(continued on page 16)
European Meeting of Itinerant and Small Planetaria

In October in Lumezzane (northern Italy), the first European meeting of itinerant and small planetaria was organized by the Italian Planetaria Friends' Association, the International Planetarium Society Mobile Planetarium Committee and the Astronomical Observatory Serafino Zani. In the central day of the meeting, more than 40 people were present, half of these from different European countries (France, Germany, Norway, Sweden, Slovakia, Ukraine, United Kingdom) and five from the United States. The high number of representatives from European countries allowed the organizers to reach one of the goals of the meeting: to collect more information about the existing itinerant planetaria in Europe and to diffuse experiences and techniques of mobile planetaria.

The main characteristic of the meeting was the presentation of different itinerant and small planetarium models, like Cosmodissee, Gambato, Goto EX-3 and Starlab. Different workshops and presentations were in fact organized during this initiative. One of these was the first national Starlab Workshop conducted by Susan Reynolds (I.P.S. Mobile Planetarium Committee, USA) devoted to demonstration of the versatility of Starlab and then to the presentation of fourteen different cylinders, from the hemispheric view of the cell to old sky mythology (Greek, Native American, Chinese and African). Michel Dumas (Le Val d'Oule, France) proposed a workshop about the use of paper, glue and scissors to make sundials, astrolabes and other teaching instruments useful to extend the activity of an itinerant planetarium outside the dome. About the practical demonstration we signal also the workshop by Philip Sadler (Harward University/Learning Technologies, Inc. USA) devoted to "Celestial Navigation under the Starlab dome" and the successful presentation by Ray Worthy (Stargazer Schools Planetarium, Harlepool, United Kingdom) of his homemade inflatable dome (5.5 meters in diameter) with a vertical entrance.

The meeting started with an original proposal: three lessons in American by Susan Reynolds, under the Starlab dome, with secondary students of English. Reynolds also presented the same lesson, named "Messages from a Time Traveller," to the meeting participants. The success obtained with the students and the interests of the teachers has encouraged Serafino Zani Astronomical Observatory to repeat the experience each year, with different American teachers.

Dieter Vornholz (Olbers Planetarium, Hochschule Bremen, Germany) presented a communication by invitation on "Astronomical Itineraries for Schools and the Public," which means sites of interest for the teaching of astronomy, and not only includes planetaria and observatories but also sundials and astronomical monuments, archeoastronomy sites, meteorite craters, miniature solar systems made in nature trails or parks and so on. The purpose of this communication was also to involve other countries in this census of astronomical sites. The only Italian speaker, Angela Turrichia (Aula didattica Planetario, Bologna) briefly describes the Italian Galileo model III planetarium now out of production. A more detailed presentation by Renzo Berlincioni (planetarium maker, Florence) will be published in the Proceedings. Turrichia spoke also about the activities of didactical experiences with children from Bologna primary schools, using a half-dome Galileo planetarium, pictures, fables and a few mathematical accounts. The history of the planetarium and portable planetaria was the topic presented by George Reed (Spitz, Inc./West Chester University, USA) while Jean-Louis Heudier (PARSEC, Nice, France), using a spectacular video clip, spoke about the eight years of planetarium and astronomy for the general public at Astrorama, which is an education center in southern France. From Slovakia, Patricia Lipovska (Presov Observatory and Planetarium) and Marian Vidovenec (Slovak Central Observatory, Hranovo) presented their activities.

During the meeting, Guido Casadei, the Italian planetarian, was remembered. He was president of the Brescia Astronomical Association and died last September.

In the central day of the meeting, there was also the national yearly conference of Italian planetaria. The Astronomical Association of Rovigo, in collaboration with the Teatro Amico, presented a puppet show about the mythology of the heavens.

A beautiful clear sky waited for the participants during the night visit to Serafino Zani Astronomical Observatory. This observatory is a promoter of different astronomical and scientific
activities with four different planetaria, interactive exhibits and teaching instruments that are used during school visits and public activities.

The meeting ended with a guided visit to the 16th century astronomical clock of Piazza Loggia in Brescia by the gnomonist Giovanni Paltrinieri. Some meeting participants took a post-conference tour of Venice, organized by Luca Talamoni, that included also a visit to the Marghera and Venice Planetaria.

During discussions, the participants proposed to continue the experience of this meeting with a biennial appointment. The next meeting could be organized in 1997, then alternated with the International Planetarium Society Conference. The people interested in the next initiatives could ask for the "Guidelines for the next European meeting of Itinerant Planetaria" and for the Proceedings by writing to: Susan Reynolds; OCM Boces Planetarium; P.O. Box 4774; Syracuse, NY 13221.

Program Five: "Return to the Stratosphere." This 60-minute (?) compilation of the best bits of all of the above costs $16 plus $4.50 for domestic shipping.

These programs are available from NASA CORE; Lorain County Vocational School; 15181 Route 58 South; Oberlin, OH 44074. Their phone number is (216) 774-1051, ext. 293 or 294. CORE accepts checks, money orders, VISA/MasterCard or school purchase orders. Ohio residents must add 5.75% sales tax to the cost of the tape (not shipping).

"Live from the Hubble Space Telescope" is Passport for Knowledge's next project. It began with "The Great Planet Debate" on November 9th. Students will have the chance (online) to discuss which of four planets Hubble should observe during the three orbits set aside for "Live From Hubble": Saturn, Uranus, Neptune or Pluto. Planet advocates for each one (Heidi Hammel is Neptune's advocate) will give information in the upcoming programs. "The Great Planet Debate" will also be rebroadcast on NTV periodically.

"Live from the Hubble Space Telescope" has a website:
http://quest.arc.nasa.gov/livefrom/hst.html
Regular updates about "Live from the HST" are available by electronic mail. Send messages to: listmanager@quest.arc.nasa.gov In the message body, write: subscribe updates-hst
If you want to be part of the "Great Planet Debate," subscribe to the discussion list. Send messages to: listmanager@quest.arc.nasa.gov In the message body, write: subscribe discuss-hst
Or visit the Space Telescope Science Institute's website: http://www.stsci.edu
Gopher by using www.stsci.edu
Transfer files by: ftp.stsci.edu
For those of us without computer access, call the Passport to Knowledge folks at (800) 626-LIVE.

STATE NEWS (continued from page 5)

The University of Wisconsin at La Crosse Planetarium and the Horwitz Planetarium in Waukesha are both running Bishop Planetarium's Star of Wonder and the Chaffee Planetarium's A Christmas Present for their public programs in December. In February, La Crosse will present Hansen Planetarium's Adventures Along the Spectrum, while Waukesha will be showing Hansen's The Universe of Dr. Einstein.

The University of Wisconsin at Stevens Point Planetarium is featuring Loch Ness' Tis the Season for its December public program.
ANNUAL BUSINESS MEETING
Grand Rapids, Michigan, October 28, 1995

CALL TO ORDER: The annual business meeting of the Great Lakes Planetarium Association was called to order at the 30th anniversary conference by President David Batch at 9:30 a.m.

SECRETARY'S REPORT: David Parker printed minutes of the last meeting, held in Wheeling, West Virginia, Oct. 29, 1994, in the Winter Newsletter. Being no corrections or questions, there was a motion and second for approval. Motion carried.

TREASURER'S REPORT: Parker read the summary of GLPA financial activity for the past fiscal year, Oct. 1, 1994, to Sept. 30, 1995. (Please see the Executive Committee meeting minutes for the financial report.)

It was moved and seconded to approved the treasurer's report. In response to a question about the Proceedings Index which was published this year, Dale Smith clarified that when it was printed, it was mailed to all GLPA members. The motion was approved.

NOMINATIONS: April Whitt, the GLPA President-Elect and Chair of the Nominations Committee, introduced and thanked the members of the committee: David Hurd, Dan Goins, Rick Pirko, and Jerry Mansfield. The candidates are Gary Lazich and Dan Francetic for President-Elect; David Parker for Secretary/Treasurer; Sue Reynolds for IPS Representative. Ballots were distributed for voting.

NATIONAL PLANETARIUM COUNCIL: Dale Smith reported the internal work of the council has produced standing rules and they are in the process of incorporating. Five of the seven U.S. regions are members; MAPS, SEPA, GLPA, PPA, and RMPA. SWAP and GPPA are not currently members. The five member regions represent about 90% of the United States planetariums. Smith is the current chair of the NPC.

Smith attended the American Astronomical Society meeting in Pittsburgh along with Martin Radcliffe to speak on the role of science centers in astronomy education. The goal was to raise consciousness of the audience that planetarians are professionals in their own right. He also attended the Astronomical Society of the Pacific symposium in astronomy education, making contacts with other professional astronomy groups such as the Space Telescope and the Division of Planetary Sciences in an effort to facilitate distribution of visuals and information to all planetariums, not just to professional astronomers and large planetariums.

INTERNATIONAL PLANETARIUM SOCIETY: Dayle Brown reported the 1996 IPS Conference will be in Osaka, Japan. Dale Smith mentioned a non-stop flight available from Detroit to Osaka. The conference will be July 17-21. The 1998 IPS conference will be in London. Five bids have been received for the 2000 IPS conference; Calgary, Adler, Charlotte, Morelia-Mexico, and Montreal. Choosing the 2000 site will take place at the 1996 Council meeting in Japan. A straw poll of the membership did not reveal a clear preference.

ELECTION RESULTS: April Whitt reported the choice for President-Elect was Dan Francetic; Secretary/Treasurer, David Parker; and IPS Representative, Sue Reynolds.

MEMBERSHIP COMMITTEE: Gene Zajac reported GLPA had 238 member last year. There are 35 states and 2 countries in GLPA. The Membership Benefits packet has been distributed to all new members. It will be updated and revised. The Directory of Officers and committee chairs will also be updated. Zajac asked for anyone knowing of changes of addresses or personnel in the GLPA area to let him know.

In addition to regular members, there are levels of membership for honorary life, seniors, students, patron, and sustaining members. Jeff Bass is in charge of recruiting conference sponsors. Zajac also asked for nominations for FELLOWS of GLPA and for Honorary Life members. Forms and information will be printed in the Newsletter and are available from Zajac.

PUBLICATIONS: In Bart Benjamin's absence, Dale Smith reported everything is going smoothly with the publication of the Newsletter and Proceedings. Benjamin compiles and edits all of the news and articles he receives. Deadlines are the 1st of the month preceding the solstices and equinoxes. State chairs collect news in the states to send to Benjamin. Smith asked everyone to send news to their State chair regularly.

Smith announced the December issue of the Newsletter will have two free color pages.

EDUCATION: David DeRemer reported TIPS booklet #4 on preparing and presenting school planetarium programs has been redone and brought up to date by Marilynn Bacyinski. A TIPS booklet about simple special effects will be edited by Dan Goins. The GLPA membership was encouraged to send any special effects plans and ideas to Goins in Martinsville.

The Third Grade program is almost finished. Educational objectives will be written and will be included. GLPA is now into the duplication and distribution phase of the project. Order forms will be in the Winter Newsletter. The deadline for orders will be Feb. 1. Show packages out before the next school year. Brown thanked DeRemer for the work he did on the program.
INSTRUCTIONAL MATERIALS: Gary Sampson reported a big year, printing about $800 worth of materials. The revised TIPS #4 should be available for distribution this year with the Proceedings. Three new scripts have been donated. He thanked Rick Pirkko and Warren Young for a script and Eric Schreur has contributed two scripts. Sampson asked for further donations of scripts and curriculum materials. Sampson has updated the index of curriculum materials.

GLPA will continue to work on revising and updating TIPS #10 dealing with handicapped in the planetarium. GLPA has led the way in dealing with this subject. The original TIPS #10 was edited by Gail Bouslog and David Parker, but now needs to be revised. GLPA is considering hiring a qualified person to assist with editing TIPS booklet #10 on the handicapped. David Hurd has also volunteered to assist with that project. Sampson also indicated Sue Reynolds is working on a TIPS booklet on portable planetariums.

Mitch Luman reported that slides and software are used frequently. The GLPA bibliography is available on computer diskette and is frequently requested. Slides requested are duplicated by Luman. Luman said many slides will be removed from the files for a variety of reasons; GLPA does not own the rights to some, some are very poor quality, some are never used. Luman is working on a new slide index which will be available on HyperCard over the next couple of years. Luman will be doing slides orders from the conference. Space Telescope slides have been sent to the slide bank by Rob Landis. Quarterly they will be sent from STSI to Luman. The Newsletter will be carrying information on ordering.

DEVELOPMENT: Jeff Bass acknowledge the great help from corporate vendors this year. Many of the vendors came from the planetarium field. Patron members are recognized for their contribution of $200 or more to GLPA. Sustaining members contribute $75 to $200.

CONFERENCE PLANNING: Gary Tomlinson reminded everyone to complete the conference evaluation. About 160 registrants are present at this conference. States planning to hold spring workshops reported their plans. Indiana, March 13, Martinsville; Illinois, April 20, Illinois State University; Ohio, April 13, Edinboro PA; Wisconsin, April 19-20, Eau Claire; and Michigan, April 27, Jackson.

Bob Bonadurer and Rod Nerdahl made a presentation inviting GLPA members to beautiful Minneapolis for the 1996 GLPA conference, October 23-26. The last GLPA conference to be held in Minneapolis was in 1979. Nerdahl and Bonadurer reviewed various aspects of the plans, facilities, speakers, observing, hotels, etc., they are preparing for the conference. Tomlinson mentioned he has not received an invitation from anyone to host the 1997 GLPA conference.

Kris McCall, Director of the Sudekum Planetarium, Nashville, Tennessee, and President of the Southeastern Planetarium Association, will be hosting the SEPA conference at the Sudekum Planetarium, June 18-22, 1996. She extended an invitation to GLPA to come to the planetarium, located at the Cumberland Science Museum. The 1952 Sudekum Planetarium has been newly renovated.

NEW BUSINESS:

Position Paper: President Batch said the GLPA position paper, the Planetarium Facilities Committee Report, is outdated and needs to be either removed as a position paper or updated. It was presented to and approved by the membership in 1968 at the conference in Rochester, New York. Jeff Hunt asked about the purpose of the paper. Batch said the original paper was directed toward the equipment and facilities necessary for school planetariums, and to help planetarians lobby for proper planetarium construction and equipment. Hunt also asked if it should be updated. Batch said it would need to be specialized for school, museum, or university facilities. Jon Marshall moved the position paper of 1968 be rescinded and request the Executive Committee explore the possibility or need for replacing it. Seconded by Alan Paries. During discussion, Paries asked for a clarification of when the report from the Executive Committee could be expected. A report will be made at the next business meeting. Hunt mentioned that it might be better to have a bad policy than to have none. We would be forced to do something about it rather than rescind it and not do anything about it, if it's important we have a statement. Motion carried.

GLPA Gift Shop: Goins asked if T-shirts, mugs and caps should be reordered for sale to members. He has had some interest expressed to have the supply renewed. He will investigate what can be done.

Home Page: Bob Elliott asked if GLPA had a Home Page on the World Wide Web. Batch said we do not. The Executive Committee was not clear of what a Home Page would do for GLPA. Elliott said slides or scripts could be made available and downloaded through a Home Page.

Stephen Schaefer said the establishment of a bulletin board for the 3000 Michigan Science Teachers Association was a waste of time. It used a lot of resources and did very little good. He said a home page would take a lot of time and would have limited benefits and did not recommend pursuing it at this time. Others with interest in this subject should send suggestions and ideas to Batch.

Cincinnati: John Schroer announced Cincinnati Planetarium, host of the 1966 GLPA conference, was closed in June. There have been some plans to rebuild in downtown Cincinnati. Batch commented that letters of support are available from the GLPA President if facilities are experiencing difficulty.

Commendation: Dale Smith commended President David Batch for his insightful leadership the last two years.

Masters Project: Mark Reed, working on masters project at Ball State University, will be sending out a survey during the winter on K-12 planetarium curriculum and invited participation and response. He will present a paper on his findings at a future conference.

A motion for adjournment was seconded and carried.

Respectfully Submitted,

[Signature]

David E. Parker, Secretary/Treasurer
EXECUTIVE COMMITTEE MEETING
Grand Rapids, October 25, 1995


CALL TO ORDER: The meeting was called to order by President David Batch at 10:35 A.M.

SECRETARY’S REPORT: Smith moved that the minutes of the last Executive Committee meeting, held in April in Grand Rapids, be approved. Seconded by Whitt and carried.

TREASURER’S REPORT: Parker distributed a financial summary of GLPA activities from 10/1/94 to 9/30/95, as follows:

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</tr>
<tr>
<td>Liability insurance</td>
<td>468.00</td>
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<tr>
<td>State meeting</td>
<td>50.00</td>
</tr>
<tr>
<td>1994 Conference</td>
<td>135.76</td>
</tr>
<tr>
<td><strong>TOTAL EXPENDITURES</strong></td>
<td><strong>8,039.03</strong></td>
</tr>
</tbody>
</table>

| Checking account balance 10/1/94 | 3,025.25 |
| ADD total receipts             | 10,708.55 |
| **TOTAL (balance + receipts)** | 13,733.80 |
| **SUBTRACT total expenditures** | -11,039.03 |
| **ACCOUNT BALANCE 9/30/95**    | 2,694.77 |

<table>
<thead>
<tr>
<th>Separate Fund Accts</th>
<th>10/1/94</th>
<th>9/30/95</th>
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<tbody>
<tr>
<td>GLPA gift shop</td>
<td>33.26</td>
<td>33.26</td>
</tr>
<tr>
<td>Printed materials</td>
<td>279.37</td>
<td>516.58</td>
</tr>
<tr>
<td>Slide, tape &amp; software</td>
<td>87.00</td>
<td>71.15</td>
</tr>
<tr>
<td><strong>TOTALS</strong></td>
<td>399.63</td>
<td>620.99</td>
</tr>
</tbody>
</table>

| Savings: balance 10/1/94 | 12,761.22 |
| ADD Interest received    | 551.05 |
| **BALANCE** 9/30/95     | 13,312.27 |

<table>
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<tr>
<th>Financial Summary:</th>
<th>10/1/94</th>
<th>9/30/95</th>
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</thead>
<tbody>
<tr>
<td>Checking account</td>
<td>3,025.25</td>
<td>2,694.77</td>
</tr>
<tr>
<td>Separate fund accounts</td>
<td>399.63</td>
<td>620.99</td>
</tr>
<tr>
<td>Credit union account</td>
<td>12,761.22</td>
<td>13,312.27</td>
</tr>
<tr>
<td><strong>TOTAL GLPA ASSETS</strong></td>
<td>16,186.10</td>
<td>16,628.03</td>
</tr>
</tbody>
</table>

The third grade program will have additional expenses of $1875, which will still be under budget for that project. Brown’s motion to accept the report was seconded and carried.

PRESIDENT’S REPORT: Batch mentioned the GLPA facilities position paper is outdated and should be withdrawn or updated. A variety of planetarium types and rapid technology changes would make revision difficult to address current needs. The paper was adopted in 1968 by the GLPA membership and if it is withdrawn it must also be by vote of the membership.

PRESIDENT-ELECT: Whitt reviewed the ballot of Dan Francetic and Gary Lazich for President-Elect, David Parker and Sue Reynolds for Sec/Treas, and IPS Rep, respectively. All candidates were aware of duties and responsibilities. Whitt suggested reminding members about how good it is to volunteer.

Background information on candidates was printed in the autumn issue of the Newsletter.

PAST PRESIDENT: Smith reported on two meetings he attended to represent NPC. At the AAS met in Pittsburgh, five speakers including Smith and Martin Radcliffe made a case for school planetariums’ professional contribution.

At the ASP Education Symposium, Jim Manning helped raise awareness of planetarians. The point was to let astronomers know that there are people out there presenting astronomy on a professional level. Manning appointed an IPS outreach committee, Martin Radcliffe Chair, Dale Smith member. Smith has contacted people from Space Telescope on how to distribute materials quickly. Sending materials to regions through conference would also be effective. Smith also talked with the education chair of DPS, a division of AAS., Rob Landis at Space Telescope Institute has been great about sharing information.

INTERNATIONAL PLANETARIUM SOCIETY: Brown said the 1996 IPS conference will be in Osaka. Tour guides are being recruited in Japan to assist visiting IPS members. Smith said direct flights from Detroit can be arranged. Brown has information of a helpful travel agency. Data about conference timing will be gathered and reported at the next Council meeting. The 1998 IPS conference will be in London.

Five IPS conference bids have been received for 2000: Chicago, Calgary, Mexico, Charlotte, and Quebec. Site will be chosen in Japan, 1996. Straw vote information will be collected.

Brown met with Zinaida Sitkova of Russia to determine the kinds of slides/visuals they need. Sitkova will be able to distribute the sets of slide we provide. Alan Paryes will coordinate the production of 25 sets of 60 slides for the Russian planetariums.

Brown mentioned IPS has discussed updating and reprinting the GLPA Sourcebook and making it available to IPS members. The GLPA Sourcebook information is five years old. GLPA can still print and publish it for its own members.

Tomlinson mentioned that GLPA has a signed agreement with IPS allowing us to publish the sourcebook for our members. Tomlinson moved that GLPA retain the right to publish and modify the work IPS does on the sourcebook for distribution to IPS members. Seconded by Brown. Smith agreed to work with IPS leadership on this matter. Motion carried.

Brown reported Jeff Bowen was given permission by IPS to investigate producing, with other vendors, a short, international in scope, promotional video for pre-show in planetariums. It would feature IPS and would have space for a local spot promo. IPS received and approved an invitation from Tomlinson to join in sponsorship of Astronomy Day.

When IPS mentioned a new special effects book. Brown announced GLPA has in the planning stages a similar book. IPS tabling their project and GLPA will proceed. DeRemer will see if anyone would be interested in editing the booklet. Contributions will be sought from the membership if an editor is located.

The IPS suggested “twinning” with disadvantaged European planetarians, possibly supplying slides, scripts and some monetary support. GLPA is supporting the Russians with 25 sets of 60 slides. Smith said even the poorest of the U.S. planetariums is pretty well off compared to many others in the world.

MEMBERSHIP: Zajac reviewed the Membership Benefits. The new version will be mailed with the next Proceedings to all GLPA members. Periodic updates are in the Newsletter. A proposed new membership brochure was reviewed.

Tomlinson discussed some ways of improving Patron and Sustaining memberships and benefits. Contributions at certain elevated levels allow “sponsorship” of receptions, breakfasts, lunches, or other conference events. A committee of Bass, Tomlinson, and Zajac will study and prepare needed changes for presentation at the spring Executive Committee meeting.
Zajac mentioned that 35 states are represented in GLPA. The eight Great Lakes states supply 70% of the membership.

**PUBLICATIONS:** Smith reported in Bart Benjamin’s absence. Newsletters and Proceedings are going out on time. The Proceedings Index was published. The winter solstice issue of the Newsletter will contain two full color pages.

**EDUCATION:** DeRemer announced the GLPA Third Grade program is ready to show at the conference. He will remind the audience of the program’s purpose and intent and will distribute information about the program. There are about 115 slides in the show. The tape by Bowen is excellent. DeRemer said the program would fit well with any current curriculum on the sun, moon and planets. There is still a need to write educational objectives for the show. Full show time length is about 25 minutes. Some of the slides need to be modified.

To make this program available to the GLPA members, it was decided to recruit helpers from the committees to duplicate slides, tapes, scripts, Kodalith masters, pack and mail complete kits. Orders will be received by Feb. 1 from Newsletter order forms. GLPA members can buy the kits for the cost of duplication, which will be around $75. The price may vary somewhat as costs are determined. The price will be good until June 1.

**INSTRUCTIONAL MATERIALS:** Sampson reported lots of activity. The revised listing of resource materials in the Membership Benefits shows new additions to that area. Copies of that index are available.

TIPS #4, “Preparing and Presenting School Programs,” was revised by Marilynn Bacyinski. It will be about 40 pages plus references. It will go to all members with the Proceedings and the new Membership Benefits packet.

TIPS #10, dealing with handicapped in the planetarium, needs to be updated. Hiring a person to work on this TIPS booklet is a possibility. John Mosely offered to type up the book. Tomlinson suggested we distribute the publication to GLPA membership.

Smith will check on duplication of photographs and he also suggested we move forward with the TIPS #10 production.

Brown made a motion pay up to $1000 to hire a person to reedit, update, and revise the current handicapped document, TIPS #10. The motion was seconded. Discussion followed regarding printing and publishing. The motion carried.

Sampson reported Luman is using the HyperCard program for indexing the slides.

Tomlinson asked about producing a TIPS booklet on misconceptions in the planetarium. Sampson said the misconceptions may be better represented in a resource booklet.

**DEVELOPMENT:** Jeff Bass reported on contributions to this conference. He started in March with his contacts for the conference. Tomlinson mentioned the difficulty of unpredictable contributions in regard to planning a conference budget. Bass mentioned that contributors are actually sponsoring GLPA, not just the conference.

**CONFERENCE PLANNING:** Batch and Tomlinson suggested approving up to $3000 seed money. Whitt moved GLPA provide up to $3000 seed money to the conference host. Seconded by Bass. The seed money is provided to the conference host in order to proceed with conference planning, but must be returned after the conference. Motion passed.

The 1996 conference has been accepted for Minneapolis. The date will be October 23-26, 1996. Rod Nerdahl and Bob Bonadurer from the Minneapolis Planetarium will host the conference. They already have several plans underway.

GLPA has received no invitation for the 1997 conference. Any prospects for conference hosts for the next few years should be directed to Conference Planning as soon as possible.

It was clarified that workshop presenters preparing a text of their presentation for the Proceedings will receive a $10 discount on their conference registration.

**BUDGET:** Parker distributed budget worksheets, and the committee reviewed projected income and expenses for the 1995-96 fiscal year.

### INCOME

| Item                      | Amount
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tr>
<td>Dues</td>
<td>4700</td>
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<tr>
<td>Conference</td>
<td>475</td>
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<tr>
<td>Instruction Materials</td>
<td>600</td>
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<tr>
<td>Interest</td>
<td>600</td>
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<td>Gift Shop</td>
<td>80</td>
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<td>Advertising</td>
<td>300</td>
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<tr>
<td>Miscellaneous</td>
<td>0</td>
</tr>
<tr>
<td><strong>TOTAL PROJECTED INCOME</strong></td>
<td><strong>6755</strong></td>
</tr>
</tbody>
</table>

### EXPENDITURES

#### Publications

- Newsletter Printing: 1300
- Newsletter Postage: 900
- Proceedings: 2500
- TIPS #4: 600
- **TOTAL PROJECTED EXPENDITURES:** 5300

- Education: Third grade program: 2300
- Instructional Materials: Postage: 125
- Editor of Handicapped: 1000
- Film: 75
- Supplies: 75
- Printing: 150
- **CONFERENCE PLANNING: Office supplies:** 200
- Liability Insurance: 475
- State Meeting: 250
- 925

- Membership: Brochures: 50
- Postage: 100
- 150

- Mobile Users Group: Postage: 25
- **Development: Postage and Supplies:** 70
- Other Expenses: GLPA Postage: 75
- Supplies: 100
- Executive Travel: 1700
- President’s Expenses: 150
- I.P.S. Travel: 0
- Support for NPC: 500
- 500

- **ANNUAL REPORT:** 10
- 10

**TOTAL PROJECTED EXPENDITURES:** $12730

Brown moved the budget be approved as described above. The motion was seconded. Tomlinson mentioned that the Executive Committee is required to keep $2000 in reserve for emergencies. Motion carried.

The Spring meeting of the Executive Committee was scheduled for South Bend, March 23, 1996.

Tomlinson asked if GLPA could use a Web page on the Internet. Due to lack of use of the bulletin board service which GLPA provided a few years ago, it was decided a Web page would not be particularly useful at this time, but ways to use a Web page should be investigated.

Whitt moved for adjournment 5:39 P.M.

Respectfully Submitted, [Signature]

David E. Parker, Sec./Treas.
Announcing a new planetarium show produced by GLPA:

**A Solar System Adventure Tour**

The program uses your planetarium as the bridge of a spaceship. Your students (3rd to 6th grade) become participating scientists on the first mission past all of the planets. Upon entering the planetarium, students are given computer information cards. These data cards describe what the students' duties will be during the trip.

The show is produced by the Great Lakes Planetarium Association for use by its membership and is available for duplication costs only. Show packages will include an audio tape (with a fine digital mix of voice, music and sound effects by Bowen Music Productions), 115 slides, production notes and a list of educational objectives. For those who apply before February 1, 1996, show packages will cost only $75. Our goal is to have these first orders ready by mid-summer.

A preliminary test run of the program was presented at this year's GLPA Conference in Grand Rapids. The show's writer and producer Dave DeRemer appreciated all comments about the program, particularly suggestions from observant members which will make the final production more scientifically accurate, more culturally acceptable and more flexible to use in our wide variety of planetarium facilities.

Dave DeRemer adds, "I wish to thank the many members who have assisted in the production of this program. A special thanks goes out to Jeff Bowen and the staff of Bowen Music Productions."

Yes, I'd like to order **A Solar System Adventure Tour** for my planetarium.

Name ___________________________________________ Tape Format? ___ cassette

__________________________

Planetarium _________________________________________ ___ DAT

Address ____________________________________________

City, State, Zip ______________________________________

Phone / Fax __________________________________________

Please include a check for $75 made payable to GLPA.

Send check and this completed application to:

Mitch Luman
Koch Science Center and Planetarium
411 S.E. Riverside Drive
Evansville, IN 47713

**PRESIDENT'S MESSAGE**

(continued from page 7)

erated colors as though they were natural, for example. She also recalled that she attended planetarium shows at an early age that depicted comets as "whooshing" across the sky at considerable speed, in a completely unrealistic way. She pleaded with us to offer more accurate views of comets.

Most telling to me, she confessed that she probably became interested in her life's work on comets by attending these shows.

As measured by its conferences at least, GLPA is a vigorous 30-year-old. As most of us who are over 30 tell our friends turning that age (with an element of truth) the best is yet to come. And so it would seem for the Great Lakes Planetarium Association.
FELLOW OF GLPA

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

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

QUALIFICATIONS FOR FELLOW OF GLPA:

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

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

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

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

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

SUBMIT NOMINATIONS TO: 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 Great Lakes Planetarium Association would like to thank the following Patron and Sustaining Members for their support:

**PATRON MEMBERS**  
$200 and up

Astro-Tech Manufacturing, Inc.  
550 Elm Ridge Avenue  
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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

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Salt Lake City, UT 84108  
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Goto Optical Manufacturing Co.  
4-16 Yazaki-cho  
Fuchu-shi, Tokyo JAPAN 00183  
Representative: Kimberly Ayres

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

Minolta Corporation  
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Ramsey, NJ 07446  
Representative: Kosuke Sasaki

Pangolin Laser Software  
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Manassas, VA 22110  
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Tipton, IN

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Wish
Upon
A Star

The Skymaster- compact & versatile.

The smallest of all Zeiss planetariums, the Skymaster is designed for dome diameters of 16 to 36 feet. It projects over 7000 stars, has a starfield that can be custom designed and fits easily into existing buildings, eliminating costly remodeling.

Zeiss projectors are known for their quality, durability and performance. More than 500 planetariums all over the world testify to Zeiss planetaria for simulation, education and entertainment.

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The Skymaster
ZKP3

Compact & versatile, the Skymaster projects over 7000 stars and fits easily into existing domes. A portable keyboard allows for complete control of the main projector and it’s starfield can be custom designed. Offering the same superior presentation qualities as other Zeiss projectors, the Skymaster’s compact dimensions and flexibility make it an excellent choice for existing domes and small planetariums.

Call your Seiler Instrument representative for details.
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